FINAL

Sewer System Management Plan

Prepared for
City of Upland, California
July 22, 2025

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List of Abbreviations

CCTV	closed-circuit television
CCWRF	Carbon Canyon Wastewater Reclamation Facility
CFR	Code of Federal Regulations
CIP	Capital Improvement Program
City/city	City of Upland
CIWQS	California Integrated Water Quality System
FOG	fats, oils and grease
FSE	food service establishment
GIS	Geographic Information System
I/I	infiltration and inflow
IEUA	Inland Empire Utilities Agency
LACSD	Los Angeles County Sanitation Districts
LF	linear feet
MAA	Mutual Aid Agreement
MRP	Monitoring and Reporting Requirements
NCPI	National Clay Pipe Institute
O&M	operations and maintenance
OES	Office of Emergency Services
PM	preventative maintenance
PPE	personal protective equipment
PWD	Public Works Department
RCA	regional contracting agencies
RP-1	IEUA Regional Plant 1
R/R	repair and replacement
SERP	Spill Emergency Response Plan
SOP	standard operating procedures
SORP	Sewer Overflow Response Plan
SSMP	Sewer System Management Plan
SSO	sanitary sewer overflow
SWRCB	State Water Resources Control Board
UMC	Upland Municipal Code
VCP	vitrified clay pipe
WDR	Waste Discharge Requirements
WOTUS	Waters of the United States

Section 1

Sewer System Management Plan Goal and Introduction

1.1 Regulatory Context

On May 2, 2006, the California State Water Resources Control Board (SWRCB) adopted Order 2006-0003, Statewide General Waste Discharge Requirements (WDR), which requires all federal and state agencies, municipalities, counties, and other public entities in California which own or operate a wastewater collections system more than 1 mile in length to develop and implement a system-specific Sewer System Management Plan (SSMP) and to report all sanitary sewer spills to the SWRCB's online California Integrated Water Quality System (CIWQS) Sanitary Sewer System Database. The SWRCB adopted Order Number WQ 2013-0058-EXEC on August 6, 2013, amending the Monitoring and Reporting Requirements (MRP) included in Order No. 2006-0003-DWQ. In 2022, the SWRCB adopted Order WQ 2022-0103-DWQ (Order), which further amended the Statewide WDRs. The intent of the revision is to improve data management and monitoring to further assist with evaluating various sanitary sewer overflows (SSO).

The purpose of the SSMP is to provide a consistent statewide approach to reducing SSOs to protect human and environmental health. The WDRs include directives for owners and operators of sanitary sewer systems to demonstrate their effective management, operation, and maintenance of the systems. This SSMP update has been prepared in compliance with the current WDRs and considers the recent changes to the General Order.

The City of Upland (city) submitted a Notice of Intent to comply with Order 2006-003 Statewide General WDRs on September 25, 2006, under the Waste Discharge Identification (WDID) No. 8SS010564. On April 11, 2023, the city re-enrolled to maintain regulatory coverage under the updated General Order and received confirmation of continued coverage.

The Legally Responsible Official (LRO) is a designated senior-level manager within the city's Public Works Department, as identified in Section 2 of this SSMP. The LRO is responsible for overseeing the implementation of the SSMP and ensuring compliance with all applicable regulatory requirements.

1.2 Purpose

An SSMP serves as a living planning document which details ongoing local sewer system management program activities, procedures, and decision making with the goal of providing a consistent statewide approach to reducing SSOs and protecting human and environmental health. The city Public Works Department (PWD) has consistently maintained the sanitary sewer system in alignment with the goals set forth in the SSMP. Reliable SSO reporting and data management, comprehensive preventive maintenance and blockage control programs, and periodic infrastructure assessment has enabled the city to protect public health by minimizing SSOs and associated impacts. This SSMP update has been prepared in compliance with the current WDRs and recent updates to the General Order and builds upon existing sewer system management efforts which the city has maintained. After completion of this SSMP update, the city will complete its next update in 2031, on schedule with the WDR requirements.

This document has been divided into 11 sections and is organized to align with requirements as they appear in the WDRs. Each section below addresses one of the key elements of the WDR SSMP guidelines:

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

1.3 Sewer System Description and Asset Overview

The city occupies approximately 15 square miles and is located in the western end of San Bernardino County. It is bordered by the cities of Montclair and Claremont on the west, Ontario to the south, Rancho Cucamonga to the east, and the unincorporated areas of San Antonio Heights to the north. As of 2024, the city had a population of approximately 79,600.

The sewer system is a gravity flow system consisting of approximately 207 miles of pipe ranging from 3 inches to 21 inches in diameter. The city provides sewer service to most businesses and residents within the city, as well as the unincorporated areas (San Antonio Heights) within the city's sphere of influence. Collected sewage is conveyed to the Inland Empire Utilities Agency (IEUA) regional wastewater reclamation facilities for treatment and disposal of the effluent, sludge, and residual solids. The city community sewer is a "satellite collection system" to the IEUA regional sewage collection system and wastewater treatment and reclamation plants.

Several areas in the southwest quadrant of the city cannot be served by gravity flow through the city's system to the regional trunk sewer. The sewer mains in these areas are connected to the sewer systems of Montclair and Claremont. The city is responsible for operations and maintenance (O&M) of the system within its boundaries. In addition, the city pays a fee to the adjoining city or agency for the conveyance of city flows from these areas to the regional plants owned and operated by IEUA (for flows through the Montclair system) or Los Angeles County Sanitation District (LACSD) 21 (for flows through the Claremont system) for treatment. A map of the city's community sewer system and boundaries with the adjoining cities is included on Figure 4-1 in Section 4.2.1 of this SSMP.

1.4 SSMP Goals

The primary objective of the SSMP is to establish a comprehensive framework and schedule for the effective management, operation, and maintenance of all components of the sanitary sewer system. This proactive approach is intended to minimize and prevent sanitary sewer overflows (SSOs) and ensure the timely mitigation of any incidents that may occur.

Providing safe, reliable, and responsive sewer service is fundamental to upholding the mission of the PWD, which is: *"to preserve and enhance Upland's resources for future generations, to be a responsible custodian of the community infrastructure, and to provide responsive, courteous, and cost-effective customer care."*

In alignment with this mission, the Utilities Division and Sewer Division of the PWD have developed specific goals and objectives for the operation and maintenance (O&M) of the City's sewer system. These goals form the foundation of the Public Works Sewer Division's O&M Program. As described in Section 4, the O&M Program document defines roles and responsibilities, allocates staff hours to sewer O&M activities, and provides detailed procedures and guidelines for system maintenance and cleaning operations.

The objectives of the sewer O&M program align with the following SSMP goals:

- Minimize the frequency and impact of SSOs
- Prevent public health hazards
- Minimize inconveniences by responsibly handling interruptions in services
- Protect the large investment in collection system assets by maintaining adequate capacities and extending useful life
- Prevent unnecessary damage to public and private property
- Use available funds in the most efficient manner
- Convey wastewater with minimum infiltration and inflow (I/I)
- Confirm adequate capacity to convey peak flows
- Perform all operations in a safe manner to avoid personal injury and property damage

This SSMP supplements and supports the city's existing O&M program by providing high-level consolidated guidelines and procedures for all aspects of the city's sewer system management. This SSMP will contribute to the proper management of the collection system and help the city minimize the frequency and impacts of SSOs by providing guidance for appropriate maintenance, capacity management, and emergency response.

Section 2

Organization

2.1 WDR Requirement

The SSMP must identify organizational staffing who are responsible for and integral to implementing the local SSMP. This must be done through an organization chart or similar narrative documentation which includes:

- The name of the responsible or authorized representative as described in Section 5.1 (Designation of a Legally Responsible Official) of the General Order.
- The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program.
- 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]).

2.2 Authorized Representatives

The Assistant City Manager/Public Works Director is the principal executive office of the PWD and serves as the Legally Responsible Official for the purpose of this General Order. The city has identified the need to hire a qualified Deputy Director of Utilities, a currently unfilled position, as soon as possible. Once hired, the Assistant City Manager/Public Works Director shall designate the Deputy Director of Utilities as a "Data Submitter" for the City of Upland. Any changes to the Legally Responsible Official or "Data Submitter" will be documented as part of the city's SSMP audit.

Under the Utilities Division is the Environmental Division, headed by an Environmental Compliance Programs Manager. Since the General Order is a regulatory permit project with MRP requirements, the Environmental Compliance Programs Manager is assigned as a "Data Submitter" for reporting and certifying data on CIWQS.

Sewer maintenance is performed by maintenance workers and city staff under the Sewer Division, led by the Utilities System Supervisor. The sewer Utilities System Supervisor has also been assigned as a "Data Submitter" for reporting and certifying data on CIWQS.

Additional "Data Submitters" include the Acting Utilities Manager and the Regulatory Compliance Specialist. Appendix A contains a list of the names and positions currently registered with CIWQS as authorized representatives and Data Submitters and the city's full organization structure is shown in Figure 2-1.

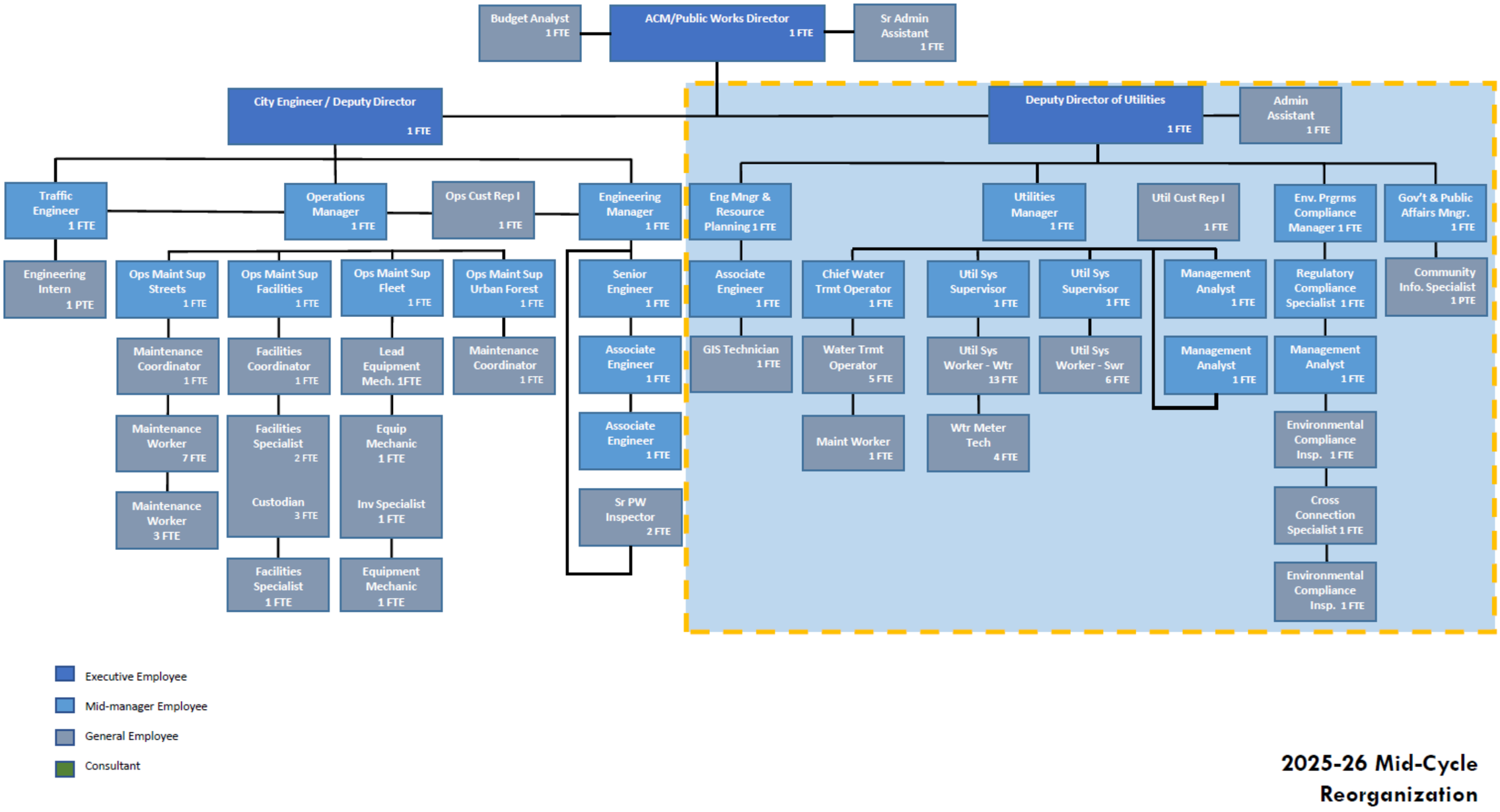

Figure 2-1. City of Upland organization chart

2.3 SSMP Staff Titles and Contact Information

The successful implementation of the City of Upland's SSMP depends upon clearly defined roles and responsibilities across administrative, operational, and support functions. This section outlines the titles and duties of key personnel involved in SSMP oversight, emergency response, and system maintenance. It also identifies roles within the organization for internal coordination and external communication, ensuring accountability and facilitating timely action in the event of sewer-related incidents or regulatory inquiries.

2.3.1 Administrative SSMP Roles

Successful implementation of the SSMP requires coordination across multiple city departments and agencies. Each entity plays a distinct role in supporting administrative functions, regulatory compliance, emergency response, and public engagement. The following roles generally outline the responsibilities of key personnel and departments involved in SSMP oversight and execution:

- **Upland City Council:** provides legislative oversight for the approvals and adoptions of development plans, schedules, final plans, and budgets.
- **City Attorney:** provides legal review of enabling ordinances and legal counsel for SSO damage and liability claims.
- **City Manager:** chief executive officer; approves the implementation of plans and recommends funding and resources; public relations liaison with newspapers and media.
- **Assistant City Manager/Public Works Director:** under the administrative direction of the City Manager, acts as a liaison between the city and various boards and committees; assists in implementing the city's plans, policies, and procedures.
- **Police Department:** provides after-hours emergency response support to the PWD, particularly during significant sewer-related emergencies. Assists with traffic control, site security, and coordination efforts to ensure public safety in the event of an SSO or other hazardous conditions.
- **County of San Bernardino Fire Department:** first responders for unidentified spills and possible hazardous material spills.
- **City Clerk Office:** coordinates legislative agenda; receives and processes SSO damage and liability claims.
- **Development Services Department:** protects public health, safety, and welfare through building permit reviews, inspections, planning and development review, and approval to maintain the city's codes and standards.
- **Building and Safety Division:** reviews building plans for conformance to codes and standards; works to confirm proper sizing of waste lines; performs inspections of domestic laterals and plumbing, septic tanks, grease interceptors and grease traps.

2.3.2 SSMP Implementation and SSO Response Roles – PWD

The City of Upland's PWD is responsible for day-to-day implementation of the SSMP and the coordination of SSO response activities. This includes planning, operations, maintenance, regulatory reporting, and emergency mobilization. A structured chain of command ensures that responsibilities are clearly defined – from executive oversight to field-level response. The following roles generally outline the responsibilities of key personnel and mutual aid partners in SSMP execution and SSO response:

- **Assistant City Manager/Public Works Director:** principle responsible charge for SSMP implementation; plans, organizes, directs, and supervises the city's public works activities and

functions; provides leadership, implements and monitors long-term plans, goals, and objectives focused on achieving the public works mission statement; responsible for policy development, program planning, fiscal management, administration, and operational direction of the PWD; provides expert professional assistance; advises City Council, City Management, Planning Commission, engineering consultants and others on departmental issues.

- **Deputy Director of Utilities:** authorized representative; responsible for coordinating SSMP implementation; certifies SSO report; under direction of Public Works Director, helps develop department policy, plans, and goals; manages the utilities, water, and environmental divisions' activities related to the O&M and repair of the city's infrastructure; provides administrative and technical direction to staff; coordinates activities with other divisions, city departments, outside agencies, organizations and consultants.
- **Utilities Manager:** under direction of Deputy Director of Utilities; manages the PWD Sewer Division; plans, organizes, directs, and coordinates field O&M of sanitary sewer and storm drains; supervises sewer O&M crews, including scheduling, training, and review/approval of completed activities; develops and evaluates SSO preventative maintenance standards; prepares and maintains O&M records.
- **Environmental Compliance Programs Manager:** under direction of Deputy Director of Utilities; responsible for coordinating responses to SSO events and meeting the SSO reporting requirements; submits and certifies SSO reports.
- **Regulatory Specialist:** under direction of the Environmental Compliance Manager; manages commercial and industrial non-domestic wastewater permitting and inspection program; industrial and commercial NPDES inspections; coordinates SSO responses; CIQWS and SSO reporting.
- **Utilities Supervisor – Sewer/Storm Drain:** under direction of the Utilities Manager, is responsible for mobilizing SSO response crews/equipment and submitting SSO data. Plans, assigns, and directs the work of sewer O&M crews, giving instruction and technical support for field operations and sanitary sewer system and storm drain maintenance; oversees the labor, equipment, and materials used; prepares and maintains O&M records.
- **Lead Worker (Sewer Division):** under general direction of the Utilities Supervisor, provides lead direction and work coordination for sewer O&M crews to perform preventative and corrective maintenance for sanitary sewer and storm drain activities.
- **Utility Worker I/II (Sewer Division):** performs labor for the preventative and corrective maintenance of the sanitary sewer system and storm drains; drives and operates equipment to complete tasks related to the preventative and corrective maintenance of the sanitary sewer system and storm drains.
- **Sewer O&M Crews:** under general direction of Utilities Supervisor, conducts preventative and corrective maintenance activities for sanitary sewer and storm drain collections systems; responds to SSOs, mobilizing equipment to contain, control, and clean up spills; prepares and submits O&M records.
- **Mutual Aid Agreement (MAA) Agency Crews:** responsible for coordinating on-call emergency response teams from partner agencies that provide support during major spills, as needed. Participating MAA agencies include:
  - City of Chino, PWD
  - City of Chino Hills, PWD
  - Cucamonga Valley Water District
  - IEUA

- City of Montclair, PWD
- City of Ontario, Municipal Utilities Company
- City of Fontana, PWD
- Jurupa Community Services District
- City of Pomona, PWD

2.3.3 SSMP Support Roles

Effective implementation of the SSMP relies upon a broad network of support personnel across multiple divisions. These roles provide essential administrative, engineering, and technical services which enable the PWD to maintain system performance, ensure regulatory compliance, and respond to sewer-related issues. The following descriptions generally outline the responsibilities of key support staff and divisions which contribute to SSMP execution, data management, permitting, inspection, and infrastructure planning:

- **Administrative Personnel:** provide administrative and clerical support for PWD; responsible for compiling and summarizing data for special projects and/or reports; receives phone calls regarding SSOs during business hours and directs calls to the Sewer Division.
- **Development Services Department:** manages the permitting and approval processes; oversees the review and approval procedures of developer and/or contractor designs for sewer and storm water collection systems.
- **Utilities Division:** prepares, maintains, and updates sewer collection system drawings and maps; manages and implements fats, oils, and grease (FOG) and non-domestic wastewater discharge permit and source control program; develops and implements CIPs, sewer system evaluation, design standards, and capacity assurance plans; supervises and participates in the development of plans for compliance with standards, codes, and regulations.
- **Engineering – Capital Improvements Division:** responsible for planning, designing, and managing the construction of public infrastructure projects. This includes improvements to streets, sidewalks, storm drains, sewer systems, public buildings, parks, and other city facilities. The division oversees project development from initial concept through design, bidding, construction, and final inspection.
- **Principal Engineer:** under supervision of the Development Services Director, oversees the Engineering – Land Development and Transportation Division; plans, organizes, directs, and coordinates the engineering review and approval of sewer and storm drain collection system site plans, storm water calculations, and site development.
- **Engineering Manager:** under direction of the Assistant City Manager/Public Works Director; oversees the Capital Improvements Division and manages the planning, design, and construction of capital improvement projects such as roads, utilities, and public infrastructure.
- **Senior Engineer:** under direction of the Engineering Manager, performs complex technical engineering work on capital improvement projects and development review; designs and participates in the administration of a wide variety of CIP projects, including sewer and storm-water drainage systems; responsible for preparing sewer and storm drain project specifications, costs, and quantity estimates.
- **Associate Engineer:** under direction of the Engineering Manager, performs professional-level engineering work related to capital improvement projects, cost estimates, and the preparation of plans, designs, and specifications for a wide variety of public works infrastructure projects, including sewer and stormwater drainage systems.

- **Public Works Inspector I/II:** under supervision of the Engineering Manager, reviews construction plans and specifications, including sewer and storm drain plans for assigned projects; conducts inspections of sewer and storm drain construction; determines compliance with contract plans and specifications, the city, and other governmental regulations.

2.4 Emergency Communication Strategy and Structure

The sections below describe the City of Upland's Wastewater Emergency Communication Strategy, with a focus on the communication structure and mutual aid coordination protocols initiated in response to SSOs.

2.4.1 Purpose and Objectives

The purpose of the Emergency Communication Strategy is to establish a clear, efficient communication plan and response strategy for engaging MAA partners during a sewer spill or wastewater emergency within the city. This strategy ensures timely coordination, resource allocation, and public safety response based upon incident severity, location, and internal capacity.

The objectives of the Emergency Communication Strategy are to:

- Ensure rapid assessment and escalation of wastewater emergencies.
- Facilitate clear and timely communication with MAA partners.
- Optimize staffing and equipment deployment through coordinated mutual aid.
- Minimize environmental, public health, and infrastructure impacts.

2.4.2 Incident Severity Levels

Incidents are classified into three response levels based upon severity, location, and capacity, as shown in Table 2-1.

Table 2-1. Incident Severity Levels

Level	Criteria	Response Strategy
Level 1 (Minor)	Small localized spill (<1,000 gallons), no threat to public or environment	Internal response using in-house staff and equipment; monitor only
Level 2 (Moderate)	Spill (1,000 to 10,000 gallons), near sensitive areas (e.g., storm drains, schools)	Internal response with notice to MAA partners; request resources if needed
Level 3 (Major)	Large-scale spill (>10,000 gallons), multiple sites, insufficient to respond staffing/equipment, or imminent public/environmental threat	Immediate activation of MAA partners; full coordination with city Emergency Operations Center (EOC)

2.4.3 Communication Structure

The communication structure includes directions for internal notifications, MAA partners, and stakeholder and regulatory communication. A breakdown of the strategy for each group is summarized below:

- Internal Notification Chain:
  - Field/On-call Staff informs Utilities Supervisor:
    - Provides initial report and photos

  - Utilities Supervisor informs Utilities Manager and Environmental Compliance Programs Manager:
    - Provides incident details, severity classification, and resource needs
  - Utilities Manager informs Deputy Director of Utilities, Assistant City Manager/Public Works Director, Emergency Coordinator:
    - Confirms severity classification and resource assessment
- Mutual Aid Partner Notification:
  - Based upon severity, the Emergency Coordinator (or designee) will contact MAA partners using a pre-established Emergency Contact Directory which includes:
    - 24/7 contact numbers.
    - Available equipment lists.
    - Available staffing resources.
  - Communication should include:
    - An incident summary (location, type, estimated volume).
    - Resources required (e.g., vacuum trucks, bypass pump equipment, traffic control).
    - Expected duration.
    - Staging location and point of contact.
- Stakeholder and Regulatory Communication:
  - The following stakeholders and regulatory bodies are also to be notified as part of the emergency response:
    - California Office of Emergency Services (Cal OES)
    - Santa Ana Regional Water Quality Control Board
    - San Bernadino County Fire Department
    - County Health Department
    - Police Department (if needed for traffic and perimeter access control)
    - The public, through advisory notices (if needed)

2.4.4 Communication Tools and Methods

Emergency communication and notifications are to be conducted using the methods listed below, with all key communication documented:

- **Primary:** phone calls/emails with incident summary, and group text alert
- **Secondary:** radio communication, secure group chat (e.g., Teams)

All communications are to be documented/logged in the Wastewater Emergency Response Log

2.4.5 Resource Coordination Protocol

Depending on the type of emergency and preparedness status of the city, requests may be made to MAAs for resource coordination. These requests will address:

- **Staff Shortages:** request mutual aid for certified operators/maintenance crew
- **Equipment Gaps:** request equipment such as bypass pumps, vacuum trucks, closed-circuit television (CCTV) inspection units

The Incident Commander will coordinate field logistics, safety briefings, and deployment.

2.4.6 Post-incident Debrief

Once the emergency has been addressed, a post-incident debrief should be held with the internal team and MAA partners within 48 to 72 hours, focused on:

- Assessing response times, effectiveness, and areas for improvement.
- Updating contact lists and mutual aid inventory as needed.

2.4.7 Conclusion

A proactive, structured communication and coordination strategy is essential to minimizing the impact of wastewater emergencies. Through a tiered response and mutual aid framework, the city can ensure rapid response, resource mobilization, and regulatory compliance during critical sewer spill events.

Section 3

Legal Authority

3.1 WDR General Order Requirement

Each enrollee must demonstrate, through sanitary sewer system use ordinances and codes, service agreements, or other legally binding procedures, that it possesses the necessary legal authority to:

- Prevent illicit discharges into its sanitary sewer system from I/I, unauthorized stormwater, chemical dumping, unauthorized debris, roots, FOG, and trash, including rags and other debris which 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.
- Obtain easement accessibility agreements for locations requiring sewer system operations and maintenance, as applicable.

Applicable ordinances and codes are cited below.

3.2 Summary and Evaluation of City's Legal Authority

Table 3-1 identifies the applicable sections and provisions of the Upland Municipal Code (UMC) applicable to the WDR requirements.

Table 3-1. Provisions of UMC Code

Self-assessment Questionnaire	Yes/No/Not Available	UMC Code Section/ Enforcement Mechanisms
Does Upland have legal authority to operate a wastewater collection system?	Yes	UMC, Title 13, Chapter 13.32
Does Upland have a sewer user ordinance which describes how the public can use the city sewers?	Yes	UMC, Title 13, Chapter 13.24, Article III
Does the Upland sewer have a "satellite collection system" or is it a "satellite" to another agency, and does Upland have sewer service agreements with such agencies?	Yes	IEUA Regional Sewerage Service Contract and Sewer Service Agreements with Montclair, Claremont, LACSD and SB County
Does Upland require, through a legally binding requirement, that new sewer systems are properly designed and constructed?	Yes	Development Conditions of Approvals, Development Agreements, Land Development Booklet
Does Upland's sewer use ordinance prohibit the discharge of FOG and other debris to the sewers?	Yes	UMC, Title 13 Chapter 13.32, Article III, Section 160
Does Upland require a public sewer easement be recorded over any new publicly owned sewer which is not within the public right-of-way?	Yes	Development Conditions of Approval, Development Agreements
Does Upland's ordinance include a section which allows enforcement action for violations of the sewer use ordinance?	Yes	UMC, Title 13, Chapter 13.32, Article V

The Upland community sewer system is a "satellite" collection system to the regional sewerage system owned and operated by the IEUA, formerly known as Chino Basin Municipal Water District. Under the Regional Sewerage Service Contract with IEUA, Upland sewage is required to meet wastewater quality requirements.

Certain areas within the City of Upland cannot be served by gravity sewer systems and must instead be conveyed to treatment facilities through sewer collection systems operated by adjacent downstream jurisdictions, including the Cities of Montclair and Claremont, as well as Los Angeles County Sanitation District (LACSD) 21. Sewer service agreements with these agencies establish legal obligations for the City to comply with their respective sewer use ordinances. These requirements are detailed in the Regional Sewage Service Contract, included in Appendix B, which governs interagency coordination, treatment responsibilities, and regulatory compliance throughout the shared regional system.

Conversely, portions of the unincorporated community of San Antonio Heights rely exclusively on the Upland community sewer system for service. These sewer connections are also subject to the provisions of the Sewer Use Ordinance as outlined in a Memorandum of Understanding with the County of San Bernardino.

3.2.1 Prevention of Illicit Discharges

Per UMC Section 13.32.140 (General restrictions and prohibitions on the use of community sewers), it is unlawful for any person to discharge, or cause to be discharged, any substance into the community sewer system or any opening leading to it which, in the opinion of the Public Works Director, may obstruct sewage flow, clog or adversely affect pumps or sewer infrastructure, or interfere with the normal operation of the sewage treatment plant. Dischargers responsible for excessive maintenance or other related expenses are liable for those costs. Prohibited discharges include any waste containing substances which may precipitate, solidify, or become viscous at temperatures between 40°F and 100°F, resulting in obstruction or interference within the publicly owned treatment works (POTW). Additionally, waste which precipitates upon sewer walls or causes excessive incrustation or scaling is prohibited. The discharge of petroleum oil, non-biodegradable cutting oil, emulsified oil, or mineral oil products which form persistent water emulsions or cause interference or pass-through is also prohibited, in accordance with 40 CFR regulations.

UMC Section 13.32.160 (Special restrictions–Grease interceptors) further requires that any business where grease or other objectionable materials may be discharged, such as restaurants, bakeries, donut shops, drive-in establishments, ice cream or milk stations, hospitals, hotels, and markets, must install a grease and oil interceptor. Existing businesses identified as discharging such waste must install an interceptor within 180 days of notification. Failure to comply with this requirement may result in revocation of the nondomestic wastewater permit.

3.2.2 Proper Connections and Construction

The City of Upland has adopted the Standard Specifications for Public Works Construction, 1997 Edition, published by Building News, Inc. for the Southern California Chapters of the Associated General Contractors of America as its official standard for public works construction. These specifications govern the design and construction of the sewer system connections and infrastructure improvements within the city.

3.2.3 Accessibility for Maintenance, Inspection, and Repair

Upland Municipal Code (UMC), Title 15, Chapter 15.24, incorporates the California Plumbing Code by reference as the official plumbing code for the City of Upland. In accordance with this code the city requires the installation of a cleanout at the property line to facilitate maintenance access to sewer laterals located within the public right-of-way. This requirement is reflected in the General Construction Notes on all sewer improvement plans.

3.2.4 Violation Enforcement

Under Title 13, Chapter 13.32 of the Upland Municipal Code (UMC), the Director of Public Works is authorized to enforce all requirements outlined in UMC §13.32.520 and may delegate enforcement authority as provided in UMC §13.32.510. Furthermore, UMC §13.32.150 establishes the criminal penalties for any violations of the sewer use and industrial waste ordinances.

3.2.5 Easement Accessibility Agreements

The city does not currently maintain a standalone "Easement Accessibility Agreement" as referenced in public documents, previous SSMPs, or UMC. Instead, easement access rights are conveyed through recorded property deeds, development agreements, or applicable ordinances which contain general provisions regarding right of entry and inspection authority. In addition, the PWD maintains a "Right of Entry" form which allows property owners to grant the city permission to access private property for sewer-related activities. A copy of this form is provided in Appendix J of this SSMP. Collectively these mechanisms provide the city with the legal authority to access sewer infrastructure for inspection, maintenance, and emergency response activities as needed.

Section 4

Operations and Maintenance Program

4.1 WDR Requirement

The SSMP must include the items listed below which are appropriate and applicable to the city's system:

- Maintain an up-to-date map of the sanitary sewer system which shows all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable storm water conveyance facilities, as well as procedures for maintaining and providing State and Regional Water Board staff access to the map.
- Describe routine preventative O&M activities by staff and contractors, including a system for scheduling regular maintenance and sanitary sewer system cleaning, with more-frequent cleaning and maintenance targeted at known problem areas and regular visual and CCTV) inspections of manholes and sewer pipes. The preventative maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders.
- Provide training on a regular basis for staff in sanitary sewer system O&M and require contractors to be appropriately trained.
- Provide equipment and replacement part inventories, including identification of critical replacement parts.

4.2 Discussion of O&M Components

This section outlines the City of Upland's approach to managing and maintaining its sanitary sewer system through a comprehensive O&M framework. Key program elements include system mapping, asset inventory, preventative maintenance, repair and rehabilitation strategies, staff training, and equipment resources. Together, these components support the city's commitment to system reliability, regulatory compliance, and protection of public health and the environment.

4.2.1 Sanitary Sewer System Mapping

The city understands the importance of good mapping of its sewer collection system. Upland maintains both hard copies and electronic versions of drawings and maps of the sewer collection system. The Engineering and Utilities Divisions of the Public Works Department maintain a comprehensive archive of all design and as-built drawings within its plan room. Additionally, all drawings are digitized and stored in electronic formats (DWG, TIFF, and/or PDF) to ensure efficient digital access through file servers located at both City Hall and the Public Works Department.

Upland also maintains a Geographic Information System (GIS) of its entire sewer collection system using the ArcGIS mapping system under a contract with Nobel Systems. This is an alternative way to fully visualize the entire sewer system. In addition to Upland's shape files for the sewers, Nobel Systems provide parcel layers, aerial layers, and other layers, typical of a GIS database system.

The Utilities Division also maintains and updates a full-size 33" x 44" sewer atlas and index map showing the entire city, and a booklet of 11" x 17" reduced-scale maps showing the sewer system in grids. Copies of these maps are provided to both the Development Services group at City Hall and Sewer Division staff for their use in mapping out their sewer cleaning and maintenance schedules and activities. A general map of the city's sewer system and surrounding jurisdictions is provided on Figure 4-1.

4.2.1.1 Sewer Inventory

Table 4-1 presents the total lengths of sewer system pipelines, which range in diameter from 3 inches to 21 inches. This data is derived from the sewer index map, supplemented by information compiled within the City's GIS-based sewer system layer and database. The majority of the pipelines are 8 inches in diameter, with most segments of the system installed between 1961 and 1980. Figure 4-2 provides a map of the City's sewer system, symbolized by pipeline installation year.

Table 4-1. Summary of Existing Collection System

Diameter (inches)	Length (feet)	Installation Year	Length (feet)
3	300	Unknown	21,700
4	500	≤ 1930	13,100
6	6,800	1931 - 1940	24,500
8	976,000	1941 - 1950	8,100
10	43,300	1951 - 1960	84,100
12	15,300	1961 - 1970	290,300
14	800	1971 - 1980	300,000
15	23,600	1981 - 1990	159,100
16	300	1991 - 2000	56,800
18	17,500	2001 - 2010	97,800
21	10,600	2011 ≤	39,400
Total	**1,095,000**	**Total**	**1,095,000**

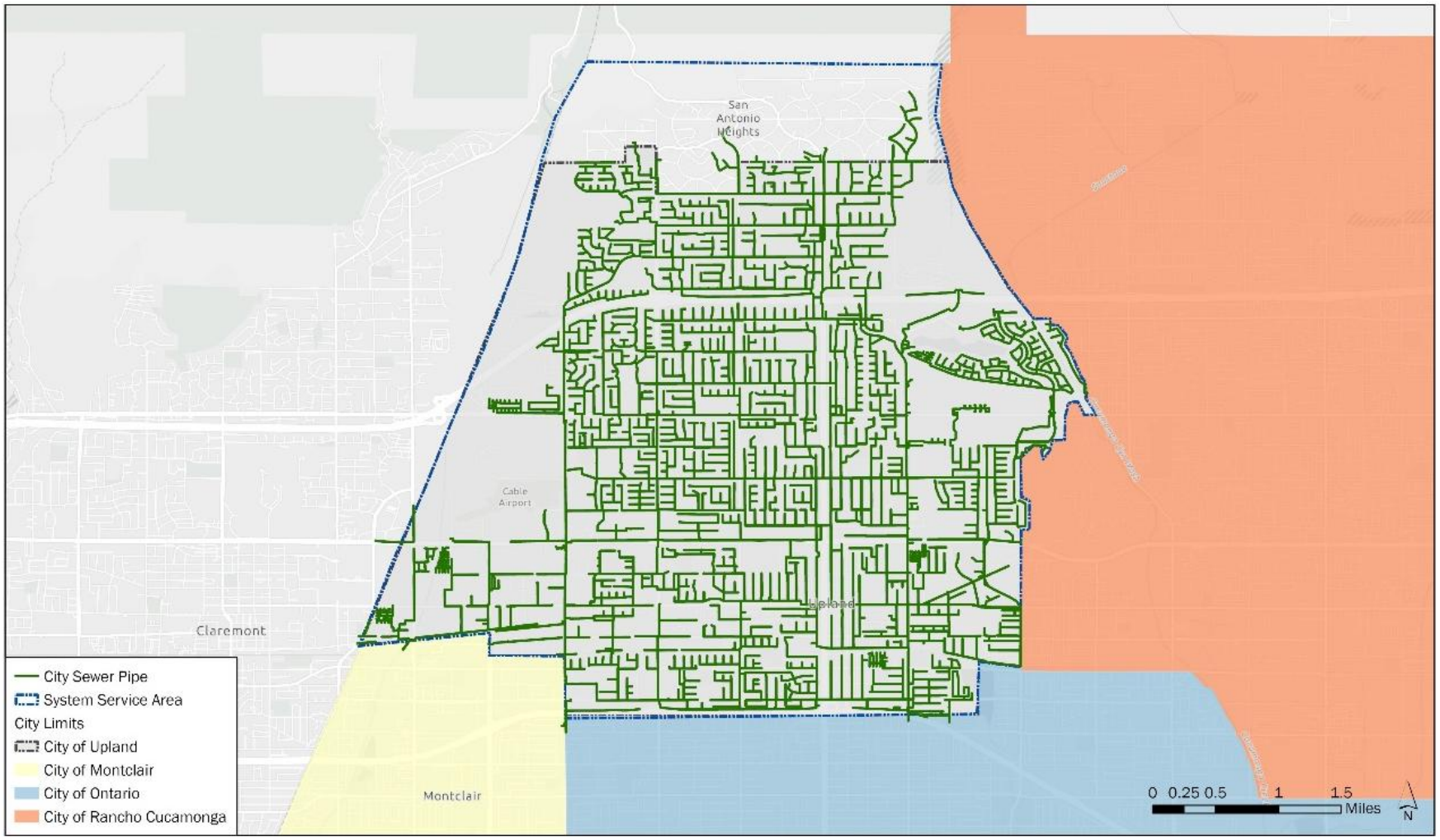

Figure 4-1. City of Upland sanitary sewer system map

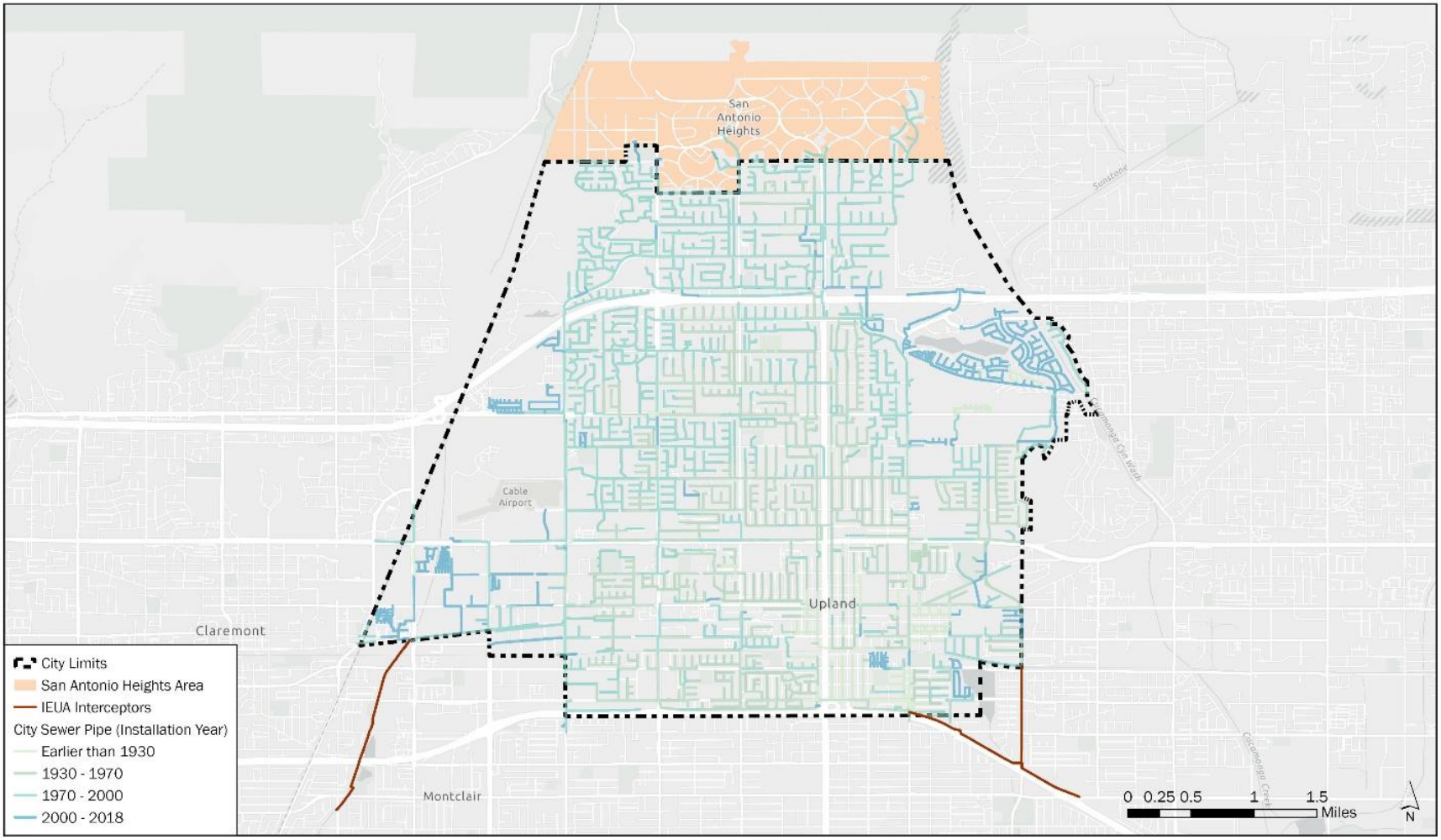

Figure 4-2. City of Upland wastewater collection system

The city and its adjoining county unincorporated area (San Antonio Heights) is split into two major and two minor sewersheds.

Major Sewersheds

- Eastside flows are tributary to IEUA Regional Plant 1 (RP-1) and are generally east of Mountain Avenue, from 26th Street to Foothill and east of Benson Avenue, from Foothill Boulevard to 7th Street. This sewershed is served by five trunk sewers, including:
  - 19th Street Tributary – Campus Avenue Trunk Sewer
  - 14th Street Tributary
  - Arrow Tributary
  - Grove Tributary – connects to the IEUA regional trunk sewer at the city boundary on Grove Avenue north of 8th Street at the northerly right-of-way line of the Atchison, Topeka and Santa Fe (ATSF) railway.
  - Freeway Tributary – connects to the IEUA regional trunk sewer at Hope Avenue south of Richland in a sanitary easement abutting the northerly side of the San Bernardino Freeway right-of-way.
- West Tributary – generally west of Mountain Avenue, from 26th Street to Foothill Boulevard and west of Benson Avenue, from Foothill Boulevard to the Southern Pacific Railroad tracks (Huntington Drive); served by the Westside Interceptor. Westside flow can be directed to either RP-1 or Carbon Canyon Wastewater Reclamation Facility (CCWRF), depending upon regional system operating conditions.

Minor Sewersheds

- Montclair Service Area - areas on the southwest fringes of the city, south of Huntington Drive, west of Benson Avenue which could not be served by gravity flow into the City of Upland sewers and are covered by an inter-agency service agreement with the City of Montclair. This tributary area flows into the Montclair sewer system for conveyance to either RP-1 or CCWRF, depending upon regional operating conditions.
- Claremont Service Area – areas encompass properties along the west county line, north of Huntington Drive, south of Arrow Highway, and north of Foothill Boulevard., west of the San Antonio Channel, which cannot be served by gravity flow into the City of Upland sewer system. These areas are covered under an interagency service agreement with the City of Claremont. Wastewater from this tributary area flows into the Claremont system for conveyance to Los Angeles County Sanitation District (LACSD) treatment facilities .

The Upland sewer collection system is separate and not connected to its municipal storm water collection system (i.e., Municipal Separate Storm Sewer System [MS4]). The city also maintains a storm drain index map and atlas which depicts the location of all the drainage systems, both local and regional. Similar to the sewer index map, the storm drain index map is also available in the large-scale 33" x 44" plot as well as in 11" x 17" booklet formats. The drawing files, both original mylars and electronic files (TIFF, PDF formats) are archived, maintained, and updated in the PWD plan room.

4.2.2 Preventative O&M Program

To ensure the sewer collection system remains in optimal working condition, the Sewer Division of the Upland PWD conducts preventive maintenance (PM) in accordance with established schedules, as well as corrective maintenance in response to citizen complaints or service requests.

The city is divided into several grids. Each segment of sewer main in the entire sewer system is programmed for sewer cleaning and flushing at least once every 24 months, or twice every 4 years. As new sewer segments are added through development or capital projects, they are incorporated into the existing grid system and included in the routine flushing and cleaning schedule for their respective grid. Table 4-2 outlines the 24-month flushing cycle, which is organized by the grids illustrated on the system map provided in Appendix K.

Table 4-2. 24-month Flushing Schedule by Grid

Grid ID	Sequence and Duration (months) – 24-month Cycle		Target Average Linear Feet/Day
San Antonio Heights	23, 24, 19, 20	2	5,500
North Upland	26, 25, 30, 29	3	5,500
Midwest Upland/Colonies	35, 36, 31, 32, 33	5	5,500
Central Upland	2, 1, 6, 5, 4	5	5,500
Foothill/Arrow	10, 11, 12, 7, 8, 9	5	5,500
South Upland	14, 13, 18, 17	4	5,500
	Total	**24**	**5,500**

The flushing cycle commences at the upstream extents of the system, beginning in the northernmost area of the city at Grid 23 and systematically progressing southward. This top-down methodology ensures that upstream segments are cleaned first, followed by downstream segments, thereby preventing recontamination and maintaining optimal flow conditions. Collector sewers downstream of confluence points are flushed only after all tributary upstream segments have been serviced to minimize the risk of blockages caused by dislodged debris.

Table 4-2 outlines the sequential schedule for flushing activities over a 24-month cycle, beginning in San Antonio Heights (Grids 23, 24, 19, 20), followed by North Upland (Grids 26, 25, 30, 29), then Midwest Upland/Colonies areas (Grids 2, 1, 6, 5, 4, 10, 11, 12, 7, 8, 9), and ending in South Upland, at Grid 17, the southernmost portion of the system. This top-to-bottom cycle supports consistent system performance and helps maintain uninterrupted service throughout the city's sewer network.

Historical problem areas—primarily located in the older southeastern quadrant and downstream segments of the system—as well as other identified "areas of concern," are placed on a bi-monthly inspection and cleaning schedule to reduce the risk of sanitary sewer overflows (SSOs). These areas were previously inspected on a quarterly basis; however, the schedule was upgraded to bi-monthly on June 24, 2025, as part of the city's proactive measures to enhance system reliability and prevent SSOs. The locations of the areas of concern include sewer segments downstream of food service establishments (FSE), confluence points of sewer mains, and "clustering" of citizen-reported sewer lateral stoppages. The list is reviewed and updated periodically (annually at minimum) to reflect changed conditions after lining rehabilitation, sewer diversion, or capacity-enhancement projects. The "areas of concern" list is developed by Sewer Division staff and is shown as Table 4-3.

Table 4-3. Sewer System "Areas of Concern" Sewer Flushing Program				
Address	Main ID	Cause	Footage	Frequency
19th St./Euclid Ave (Intersection)	H-6-1032	Grease (Design)	309' West	Every 2 Months
1875 N. San Antonio Ave (Alley)	I-5-1000	Grease (Design)	346' North	Every 2 Months
85 W. 17th St	J-6-1040	Grease (Design)	321' West	Every 2 Months
1223 North Hills Dr	J-4-1138	Buildup (Sag)	231' West	Every 2 Months
Tanglewood/Hummingbird (Intersection)	K-9-1059	Grease (Design)	54' East	Every 2 Months
20th St./Euclid Ave (Median)	G-7-1050	Grease (Offset)	166' North East	Every 2 Months
1333 E. Foothill Blvd (Taco King)	O-8-1028, O-8-1030	Grease (Design)	231' West, 147' East	Every 2 Months
837 9th Ave (Alley)	P-8-1049	Buildup (Design)	295' North	Every 2 Months
524 Maple Way	Q-5-1044	Grease (Design)	316' West	Every 2 Months
Terry Way/Randy Ct (Intersection)	R-4-1018, R-4-1035, R-4-1034	Grease (Design)	129' North, 324' West, 6' West	Every 2 Months
Palm Ave./Vernon Dr (Alley)	R-6-1065, R-6-1057	Buildup (Corrosion)	199' North, 171' West	Every 2 Months
499 W Arrow Hwy (Old House)	Q-6-133, Q-6-127, Q-6-126, Q-6-132 (Manholes)	Buildup (Design)	Inspect 4 Manholes	Every 2 Months
5th Ave/G St (Intersection)	Q-7-1024	Grease (Design)	175' East	Every 2 Months
Arrow Hwy/5th Ave (Intersection)	Q-7-1044, Q-7-1042	Grease (Design)	238' North, 396' West	Every 2 Months
Arrow Hwy/9th Ave (San Antonio Hospital)	Q-8-1055	Roots (Crack)	114' North	Every 2 Months
9th St/6th Ave (Intersection)	R-7-1064	Grease (Design)	396' West	Every 2 Months
184 S. Spencer Ave	S-4-1054, S-4-1055, S-4-1037	Grease (Design)	539' West, 355' North	Every 2 Months
1205 E 9th St	R-8-P1076 (Private Line)	Grease (Reducer)	300' North	Every 2 Months
13th Ave/A St	S-8-1032	Grease (Design)	256' West	Every 2 Months
Loma Sola	O-9-1013, O-9-1006, O-9-1000, N-9-1023, N-9-1015, N-9-1014	Roots (Joints + Laterals)	Entire Line	Every 2 Months
715 N Mountain Ave (Alley)	Q-4-1008	Grease (Design)	296' North	Every 2 Months
7th St/Spencer Ave	T-4-1047, T-4-1035	Grease (Design + Flow)	600'West+North	Every 2 Months
675 E 7th St	Manhole (T-7-111) T-7-1015, T-7-1019	Wipes Buildup (Design)	Inspect Manhole for Wipes+600' N + 600' W	Every 2 Months
343 E 7th St	T-7-1022, T-7-1024, T-7-1040	Grease (Design + Flow)	712' W + 331' N	Every 2 Months
San Antonio S/O Azure Ct	U-6-1020	Grease (Design)	118' North	Every 2 Months
Benson & Huntington	R-4-1084	Grease (Design)	87' NW	Every 2 Months
943 N 2nd Ave (McDonald's Alley)	P-7-1000	Grease + Buildup (Corrosion)	273' North	Every 2 Months

Table 4-3. Sewer System "Areas of Concern" Sewer Flushing Program				
Address	Main ID	Cause	Footage	Frequency
San Antonio Ave and Foothill Blvd (Denny's)	O-5-1040	Roots (Joints)	402' West	Every 2 Months

All daily preventative and reactive maintenance activity is documented electronically through Nobel Geoviewer by Sewer Division staff. An example summary of recent sewer maintenance activities is included as Appendix D.

Upland PWD Sewer Division staff use Nobel Geoviewer maintenance management software for tracking maintenance program activities. Nobel Geoviewer replaced IworQ's (a web-based service request management system) in early 2020.

Upland's sewer collection system inspections are conducted using CCTV cameras for video capture, fault observations and annotations, and pipe plots. A specially designed Envirosight truck with WinCan software is equipped with all the equipment and appurtenances for CCTV. The information collected is analyzed for pipeline condition assessment. Detailed assessments are completed in the field by Sewer Division staff performing the CCTV inspections. A sample CCTV inspection from a recent sewer TV-inspection is included as in Appendix E.

Depending upon workload demands CCTV inspection and condition assessments may be contracted out to specialized contractors. The results of these assessments form the basis for rehabilitation projects and Capital Improvement Plan (CIP) development.

4.2.3 Repair and Rehabilitation Plan

The City of Upland's sewer system was developed incrementally as the city expanded from its original incorporation boundaries in 1906 to its current 15-square-mile service area. As shown in Table 4-1, approximately 10 percent of the system—equating to roughly 150,000 linear feet (LF) of sewer mains—is over 70 years old. The majority, if not all, of these mains are constructed of vitrified clay pipe (VCP), which, according to the National Clay Pipe Institute (NCPI), has a service life expectancy exceeding 100 years.

The city has implemented several "trenchless" sewer rehabilitation projects using cured-in-place-pipe (CIPP) liners beginning in 1994. Since then more than 25 miles of sewer mains have been rehabilitated. Recent projects include:

- Replacement of approximately 300 LF of existing 8-inch sewer pipe along Benson Avenue north of Arrow Highway.
- Replacement of approximately 350 LF of 15-inch sewer line along Benson Avenue south of Arrow Highway.
- Replacement of approximately 200 LF of 15-inch sewer line along Arrow Highway east of Benson Avenue.
- Removal and replacement of two sewer manholes at the intersection of Arrow Highway and Benson Avenue.
- Installation of approximately 375 LF of 6-inch VCP sewer pipe along Arrow Highway west of Fairwood Way.

In 2006, the city completed a Sewer Master Plan and identified rehabilitation and replacement of aging sewer infrastructure as a project priority. The city is currently updating this plan to include a revised list of priority pipelines targeted for rehabilitation or replacement. As the majority of the system pipelines approach the end of their expected service life, the city is also working to modernize its long-term maintenance strategy, planning through 2050 and beyond.

4.2.4 Training Program and Summary

The City of Upland recognizes that comprehensive training is vital to the effective execution of maintenance activities. To ensure a high level of expertise, staff are encouraged to remain current with emerging technologies and industry best practices by participating in continuing education programs, conferences, seminars, and workshops offered by reputable organizations and manufacturers. In addition, employees are encouraged to obtain memberships in relevant professional organizations to further enhance their knowledge and professional development.

Mandatory training is required for Upland's collection system operators. Upland staff currently participate in the California Water Environment Association certification program for Collection System Maintenance Grades I through IV. The City of Upland provides ongoing in-house technical, safety, and professional development training tailored to meet the demands of staff responsibilities and support continuous workforce development.

Upland's Sewer Division staff also participate in semi-annual training sessions alongside staff from IEUA Regional Contracting Agencies (RCAs). These sessions include lectures and discussions on current issues related to the effective maintenance and operation of sewer collection systems. The training is an excellent opportunity for professional development, networking, and team building between Upland and neighboring RCAs.

Upland conducts mandatory safety training as required by the Occupational Safety and Health Administration (OSHA) and Upland's Risk Management program. In addition, Upland is developing a virtual training program for new staff which will include standard operating procedures (SOPs) for line cleaning, combination jet/vacuum truck operation, sewer grit removal, and other related tasks.

4.2.5 Equipment Inventory

Upland maintains a supply of critical parts in stock at its warehouse at the PWD City Yard, located at 1370 N Benson Ave. The Sewer Division routinely compiles and updates the parts list. The list includes pipe materials, Wye or Tee fittings, manhole covers, and rings. Equipment in the warehouse includes:

- Three combination jetter/vacuum trucks
- Two 6-inch sewer bypass trash pumps
- Two backhoes
- Two 10-cubic-yard dump trucks shared with the Water Division

In addition, the City of Upland maintains a list of qualified local sewer service contractors available to perform emergency pipeline repairs. To ensure rapid response capability, annual "blanket" purchase orders are issued at the start of each fiscal year with multiple local contractors who are on call 24/7 to address urgent needs and emergencies.

The city also maintains a Mutual Aid Agreement (MAA) with the Inland Empire Utilities Agency (IEUA) Regional Contract Agencies (RCAs), enabling the sharing of resources, equipment, and personnel from participating RCAs during emergency situations.

Section 5

Design and Performance Provisions

5.1 WDR Requirement

The SSMP must include the following items as appropriate and applicable to the city's system:

- Design criteria and construction standards and specifications for constructing and installing new sanitary sewer systems, pump stations, and other appurtenances; and for the rehabilitation and repair of existing sewer systems
- Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances; and for rehabilitation and repairs projects

5.2 Design Criteria and Construction Standards and Specifications

The City of Upland follows established guidelines for the design and construction of new sanitary sewer infrastructure. Because the city's sewer collection system operates entirely by gravity—without the use of pumps, lift stations, or pressure mains—this section focuses solely on pipelines, manholes, and associated appurtenances.

Design and construction standards include the following references:

- Standard Specification for Public Works Construction – 2021 Edition, commonly referred to as the Greenbook
- City of Upland Standard Drawings CU-Z-1 through CU-Z-4, specific to sewer construction
- Clay Pipe Engineering Manual published by NCPI for specifying VCP applications

The Engineering and Utilities Divisions within the PWD are staffed with qualified personnel and resources capable of designing systems designed for long-term performance and reliability. AutoCAD® is the standard platform used for producing engineering drawings, and all bid proposals are required to comply with Greenbook specifications.

Copies of the Greenbook and the Clay Pipe Engineering Manual are available at the PWD. All engineering drawings submitted by developers or consultants are reviewed by city staff to ensure compliance with established criteria and standards.

5.3 Procedures and Standards for Testing and Inspection

The Engineering Division within the Public Works Department includes a dedicated construction inspection team responsible for ensuring that all projects are constructed in accordance with approved specifications. For all pipeline construction, rehabilitation, and repair projects, inspections are performed using required CCTV evaluations and comprehensive condition assessments of the underground infrastructure prior to project acceptance and commissioning of the line.

Testing methods used for public sewer improvement are as specified under applicable sections of the Greenbook standards. Testing methods for private sewer laterals are specified under applicable sections of the Uniform Plumbing Code.

Section 6

Spill Emergency Response Plan

6.1 WDR Requirement

The city must develop and implement an annually updated Spill Emergency Response Plan (SERP) which identifies measures to protect public health and the environment. At minimum, this plan must include:

- Proper notification procedures so that primary responders and regulatory agencies are informed of SSOs in a timely manner.
- A program to ensure appropriate response to all overflows.
- Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g., health agencies, regional water boards, water suppliers, etc.) of SSOs which have the potential to impact public health or reach Waters of the State in accordance with the MRP. All SSOs must be reported in accordance with this MRP, the California Water Code, other State law, and other applicable Regional Water Board WDR and National Pollutant Discharge Elimination System (NPDES) permit requirements. The SSMP must specify the officials designated to receive immediate notifications.
- Procedures for managing emergency operations, including traffic control, crowd management, and other essential response activities.
- Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities.
- A program designed to ensure that all practicable measures are taken to contain, minimize, and prevent the discharge of untreated or partially treated wastewater into Waters of the United States (WOTUS), and to mitigate or correct any environmental impacts resulting from SSOs or related sanitizing activities. This includes implementing accelerated or supplemental monitoring, as necessary, to assess the nature and extent of any discharge impacts.
- An annual review and assessment of the effectiveness of the Spill Emergency Response.

6.2 Summary and Evaluation of Spill Emergency Response Plan

The City of Upland is committed to upholding the highest standards of public health and environmental protection through the implementation of SSO emergency response measures. These measures ensure that all practicable actions are taken to contain and prevent the discharge of sewage and wastewater into WOTUS, as well as to minimize or remediate any adverse environmental impacts resulting from SSOs.

In compliance with WDR requirements, the city has a documented SSO emergency response plan which establishes formal procedures to contain, correct, and remediate SSOs. Public Works Policy No. 4602, Sewer Overflow Response Plan (SORP), has been formally adopted as a general policy of the Public Works Department (PWD). The SORP is designed to ensure the prompt and effective response to any reported sewer spill. It also serves as a supplement to City Administrative Policy No. 601, which addresses stoppages in sewer laterals.

Further, under an MAA with the eight other entities, listed in Section 2.3.2, which are a "satellite collection system" to the IEUA regional sewerage system, Upland also adheres to the provisions and procedures defined under the SERP, published by IEUA. The SERP serves as an update to IEUA's old Overflow Emergency Response Plan, with additions made to address the latest requirements from the SWRCB. The SERP is designed to provide IEUA and its member agencies, including Upland, with emergency response procedures. It is also designed to ensure that any reported spill is responded to immediately and addresses impact mitigation. Continuous training is also addressed in the plan. The plan also meets the requirements of the National Incident Management System (NIMS). The NIMS provides a nationwide approach to incident management that integrates best management practices. IEUA's SERP is included in Appendix I.

6.2.1 Spill Notification Procedures

This policy and procedures directive describes the duties of collection system operators responding to SSOs. When an SSO is reported, Sewer Division staff are responsible for safeguarding public health and safety by taking all necessary measures to minimize impacts. This includes controlling and limiting the volume of the overflow, terminating the discharge, conducting sampling, and performing recovery and cleanup activities. Staff must also assess the situation to determine whether additional support or resources are required.

The SORP outlines the procedures initiated which take place once an SSO report has been received and confirmed through field verification. These procedures include notifying appropriate regulatory authorities and issuing public advisories when necessary.

Supplementing Public Works Policy and Procedure No. 4602 is a flow chart and response matrix developed for use by Public Works office staff, who are typically the first to receive calls and reports of sewer spills, as well as other issues related to the sewer system, public works infrastructure, and public facilities.

The SSO RCR flow chart included in Appendix F serves as a decision tree diagram which outlines the complete process following receipt of an SSO report. It details the various response pathways based on factors such as the timing and location of the incident, the type of spill, notification requirements, spill mitigation procedures, and reporting protocols. The flow chart also incorporates steps for cost recovery, as well as reporting and certification requirements through CIWQS.

The Chain of Communication and Response Matrix included in Appendix G is a standardized form used by office staff to document initial calls. It includes guided questions for callers, checkboxes for regulatory agency notifications, and detailed instructions for field responders.

In the event of an overflow, SSO response personnel will evaluate the need to post warning notices in areas where surface water bodies or ground surfaces have been impacted by contamination, in order to protect public health. These notices are intended to inform the public of potential health risks associated with sewage contamination but do not, unless explicitly stated, restrict access or use of the affected areas. All media inquiries are directed to the Assistant City Manager/City Public Works Director or City Manager's Office as appropriate.

In public-accessed areas, signage and barriers must be in place for the duration of the cleanup and disinfection process. Warning signs notifying the public of a sewage release will be posted in all affected areas. At a minimum, these signs will display the wording "RAW SEWAGE." The signs will remain in place until authorization for removal is granted by the San Bernardino County Department of Environmental Health or RWQCB staff, or until receiving water sample results confirm that background levels (as determined by upstream samples) have been restored.

6.2.2 Compliance and Response Procedures

As an enrollee under the General Order, the City of Upland will comply with Water Code Sections 13267 and 13383, which establish enforceable monitoring, reporting, and recordkeeping requirements. The following definitions apply:

- Notification: the process of informing appropriate parties of a spill event or other activity
- Spill-specific Monitoring: the collection of information and data for a specific spill event to be reported or kept as records
- Reporting: the submission of information and data into the CIWQS Sanitary Sewer System Database
- Recordkeeping: the maintenance of information and data in an official records storage system

In accordance with Water Code Section 13271, any spill of 1,000 gallons or more which discharges in or on any WOTUS or is deposited in a location where it may reasonably reach such waters, the city must notify the California OES Control Number as soon as possible but no later than 2 hours after:

- The Enrollee has knowledge of the spill; and
- Notification can be provided without substantially impeding cleanup or other emergency measures.

For spills of 1,000 gallons or more, the city must provide the following spill information to the California OES before receiving a Control Number, as applicable:

- Name and phone number of the person notifying the California OES
- Estimated spill volume (gallons)
- Estimated spill rate from the system (gallons per minute)
- Estimated discharge rate (gallons per minute) directly into WOTUS or indirectly into a drainage conveyance system
- Spill incident description:
  - Brief narrative of the spill event
  - Spill incident location (address, city, and zip code) and closest cross streets and/or landmarks
- Name and phone number of contact person on scene
- Date and time the Enrollee was informed of the spill event
- Name of sanitary sewer system causing the spill
- Spill cause or suspected cause (if known)
- Amount of spill contained
- Name of receiving water body receiving or potentially receiving discharge
- Description of water body impact and/or potential impact to beneficial uses

Following the initial notification of a spill of 1,000 gallons or more to the California OES and until such time which the city certifies the spill report in the online CIWQS Sanitary Sewer System Database, the city must provide updates to the California OES regarding substantial changes to the:

- Estimated spill volume (increase or decrease in gallons initially estimated).
- Estimated discharge volume discharged directly into WOTUS or indirectly into a drainage conveyance system (increase or decrease in gallons initially estimated).
- Additional impact(s) to the receiving water(s) and beneficial uses.

Once all data has been verified, the city will certify the final spill report in the CIWQS Sanitary Sewer System Database to ensure total compliance with State requirements.

For sewage spills estimated at 50,000 gallons or more that reach a surface water body, the city is required to initiate water quality sampling within 18 hours of confirming the potential discharge. Sampling procedures guidelines include:

Sampling Locations and Frequency

- A minimum of one water sample per day is to be collected for the duration of the spill at the following locations:
  - DCS-001 (Drainage Conveyance System): a point in a drainage conveyance system prior to its discharge into a receiving water
  - RSW-001 (Point of Discharge): a point in the receiving water where sewage initially enters the receiving water
  - RSW-001U (Upstream Point of Discharge): a point upstream of the sewage discharge in the receiving water, used to capture baseline or ambient conditions unaffected by the spill
  - RSW-001D (Downstream of Point of Discharge): a point in the receiving water, downstream of the point of sewage discharge, where the spill material is fully mixed with the receiving water.

If the receiving water has no flow during the duration of the spill, the city must report "No Sampling Due to No Flow" for its receiving water sampling locations.

Required Sample Analyses

Collected samples must be analyzed for the following constituents:

- Ammonia
- Bacterial indicators, in accordance with applicable Basin Plan water quality objectives, including one or more of the following unless otherwise directed by the Regional Water Board:
  - Total coliform bacteria
  - Fecal coliform bacteria
  - *E. coli*
  - Enterococcus

Sampling frequency and bacterial indicators must be sufficient to demonstrate compliance with post-spill water quality standards under the California Ocean Plan and the California Inland Surface Water, Enclosed Bays, and Estuaries Plan.

Analytical and Laboratory Requirements

Sample analysis must adhere to 40 CFR Part 136, ensuring sufficiently sensitive test methods are used to assess pollutant levels. Water quality testing must be conducted by a laboratory accredited under Article 3 (Section 100825) of Chapter 4, Part 1, Division 101 of the Health and Safety Code. The State Water Board accredits laboratories through its Environmental Laboratory Accreditation Program (ELAP).

If the city encounters access restrictions or unsafe conditions which prevent its compliance with spill response requirements or monitoring requirements in this General Order, the city must provide documentation of access restrictions and/or safety hazards in the corresponding required report.

6.2.3 Staff and Training Requirements

As an Enrollee under the General Order, the city defines "training" as "in-house or external education and guidance needed which provides personnel with the necessary knowledge, skills, and abilities to ensure compliance with this General Order." Training is to be conducted on a regular basis for sanitary sewer system O&M staff/contractors and cover the following key areas:

- Regulatory Compliance: training on the requirements outlined in the General Order and ensuring adherence to all applicable regulations
- Spill Emergency Response: comprehensive familiarity with the city's SERP, including procedural drills to reinforce rapid and effective containment measures
- Spill Volume Estimation: developing field staff expertise in accurately estimating spill volume to support consistent and reliable reporting
- O&M Procedures: instruction on SOPs, proper equipment use, and PM practices
- Safety and Traffic Control: ensuring staff are trained in traffic control protocols and safety procedures, including the proper use of personal protective equipment (PPE) and hazard mitigation techniques.
- Confined-space Entry and Equipment Operation: training to reinforce safe practices for confined space entry and proper operation of tools, vehicles, and field equipment

All city sewer personnel maintain certification through the California Water Environment Association (CWEA) Collection System Maintenance Program. Certification levels, required contact hours, and training records are systematically tracked and maintained to ensure ongoing compliance with current program standards.

6.2.4 Electronic Reporting Procedures

As part of State- and Regional Water Board-issued WDRs, the City of Upland is required to use CIWQS for electronic reporting of SSOs and other compliance-related data. The system is administered by the SWRCB. Electronic reporting is carried out by the city's designated Data Submitters or the Legally Responsible Official (LRO). A list of all designated personnel is included in Appendix A.

The City of Upland is responsible for reporting the following data in CIWQS:

- All SSOs, regardless of the volume and final destination of the spill
- No-spill certifications for months without any occurrences of SSOs
- Technical reports for Category 1 SSOs
- SSMP audits, updates, and other certification documents

The city must submit and certify all reports to CIWQS within the following timelines:

- Category 1 SSOs:
  - Report: within 3 business days of becoming aware of the SSO
  - Report Certification: within 15 calendar days
- Category 2 SSOs:
  - Report: within 30 calendar days
  - Report Certification: within 30 calendar days
- No-spill Months:
  - Within 30 calendar days following month-end
- Technical Reports:

- Within 45 calendar days of the end of SSO response, when applicable

Despite CIWQS being an internal database, the city must maintain records of documents required in the General Order for a minimum of 5 years.

6.2.5 Emergency Response Operations

The city is committed to maintaining an effective and coordinated emergency response system for sanitary sewer system incidents, with a focus upon rapid containment, mitigation, and public health and the environment.

In the event of a SSO or other sewer-related emergency, the city will implement its SORP, which outlines procedures for field verification, containment, cleanup, and regulatory notification. PWD staff are trained to respond promptly and effectively to minimize spill volume, prevent discharge to storm drains or surface waters, and restore normal system operations.

Key components of the city's emergency response operations include:

- **24/7 On-Call Response Teams:** PWD staff serve as the primary responders, however, for after-hours incident, the Police Department and other dispatch services may supplement or backfill response personnel as needed.
- **Interdepartmental Coordination:** The Police Department assists with traffic control and site safety during significant emergencies. The County of San Bernardino Fire Department and Environmental Division may also be engaged for hazardous material assessments.
- **Containmnent and Cleanup Procedures:** Crews deploy containment equipment to isolate affected areas. Vacuum trucks and portable suction units are used to recover spilled sewage and contaminated water. Solid waste and absorbent materials are transported and disposed of in full compliance of all applicable regulations.
- **Regulatory Notification:** The city adheres to established protocols for notifying the appropriate agencies depending upon the severity of the SSO or spill related incident. All SSOs are reported through the CIWQS database.
- **Post-Incident Assessment:** Following each emergency response, the city performs a post-spill evaluation to determine the root cause, assess environmental impacts, and identify necessary corrective actions. Insights and lessons learned from each spill-related event are integrated into ongoing staff training and operational improvements.
- **Mutual Aid Agreements:** The city leverages the MAA established through IEUA to ensure the availability of appropriate equipment, personnel, and resources necessary for an effective response to spill events.

This comprehensive approach ensures that the City of Upland responds effectively to sewer system emergencies, has the ability to minimize environmental impacts, and ensure its commitment to public safety and compliance with all regulatory requirements.

6.2.6 Spill Containment

The spill containment process begins with the prompt isolation of the affected area, using appropriate containment equipment to prevent the spread of sewage runoff. Plastic sheeting or tarps may be deployed to redirect flow and cover storm drains.

Supplies and materials used include:

- Absorbent pads
- Spill socks

- Polyurethane berms
- Heavy-duty plastic sheeting or tarps
- Sandbags
- Shovels and rakes
- Squeegees
- Safety cones or barricades
- PPE
- Disinfectants and cleaning agents

6.2.7 Spill Removal and Disposal

The spill removal process includes the following steps:

- Extraction: Remove sewage and contaminated water using vacuum trucks or portable suction equipment.
- Collection: Gather all solid debris and absorbent materials used during containment (e.g., booms, pads, soil, etc.)
- Disposal: Transport all waste in sealed, labeled containers to an approved disposal site.

All recovered sewage and associated waste materials are transported to and legally disposed at the IEUA drying beds located in Chino, CA. This facility is fully permitted to receive and process municipal wastewater in compliance with all applicable regional environmental regulations.

6.2.8 Post-spill Assessment Procedures

Following an SSO event, the city must conduct a comprehensive post-spill assessment to evaluate the incident, identify environmental impacts, and implement appropriate corrective actions. The post-spill assessment must include, at minimum:

- Incident Review and Failure Analysis:
  - Personnel must investigate the root cause of the spill, evaluate system performance, and perform corrective action planning.
- Environmental Impact Assessment:
  - When applicable, the city must evaluate the extent of the spill on local storm drains, surface waters, and surrounding land areas, then assess the potential risks to public health and safety.
- Post-spill Reporting and Compliance:
  - All findings from SSOs must be reported to the relevant regulatory agencies. Public notifications shall be issued as appropriate, and insights gained from the incident will be integrated into future staff training programs.

6.2.9 Documentation

The city is required to maintain comprehensive records of all spill events, response actions, and corrective measures. As applicable, documentation following spill events within the city may include:

- Incident Reports: spill location, volume estimates, root-cause analysis, and response actions taken.
- Water Quality Sampling Records: laboratory results for post-spill assessments
- Corrective Action Logs: documentation of infrastructure repairs, maintenance activities, and implemented procedural improvements.

Following a spill event, the City is responsible for submitting all required notifications to the CIWQS database and the appropriate local and state agencies, as dictated by the spill volume. The City must also provide spill reports to the public upon request. In addition, the City is required to maintain comprehensive records of sewer system audits, historical spill data, and staff training activities.

6.2.10 Spill Emergency Response Plan Updates

The SERP is a dynamic document that will be updated as necessary to reflect current policies, procedures, and best practices. It will be periodically reviewed to insure accurate content information, forms, and operational procedures. These reviews will verify that all plan provisions are being effectively implemented, and any identified deficiencies or required updates to the SSO response plan will be promptly addressed.

Section 7

Sewer Pipe Blockage Control Program

7.1 WDR Requirement

Each enrollee must evaluate its service area to determine whether a sewer pipe blockage, roots, and FOG control program (Blockage Control Program) is needed to control FOG, rags, debris, and roots. If an enrollee determines that a Blockage Control Program is not needed, justification must be provided. The SSMP is to include the following as appropriate:

- An implementation plan and schedule for a public education outreach program which 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 substances generated within a sanitary sewer system service area.
- The legal authority to prohibit discharges to the system and identify measures to prevent SSOs and blockages
- Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, best management practices requirements, and recordkeeping and reporting requirements
- Authority to inspect grease-producing facilities and enforce city requirements, and whether the enrollee has sufficient staff to inspect and enforce the FOG ordinance
- Identification of sanitary sewer system sections subject to FOG blockages and establishment of a cleaning and maintenance schedule for each section
- Development and implementation of source control measures for all sources of FOG discharged to the sanitary sewer system
- To address roots, the procedures must, at minimum, identify, document, and address system areas and components prone to root intrusion potentially resulting in system backup and/or failure, and implementation of coordination measures to reduce recurrence of root intrusion for the system areas and components

7.2 Summary and Evaluation of City's Sewer Pipe Blockage Control Program

The City of Upland is predominantly a residential community; however, commercial corridors such as Historic Route 66 (Foothill Boulevard) and Mountain Avenue include several FSEs that have historically experienced blockages and sewer backups within their private service laterals. Additionally, sewer segments located downstream of multi-family residential complexes have occasionally been reported to experience similar backup issues.

As part of the routine sewer cleaning and flushing program, Sewer Division maintenance staff record their observations electronically using the Nobel GeoViewer app, as detailed in the Sample of Sewer Maintenance – Daily Activity Report Form, included in Appendix C. Observations may include grease accumulations ('grease logs') which are dislodged, broken apart, and removed when feasible. In some instances, grease is allowed to travel downstream for capture and removal at bar screens, comminutors, or equalization basins at the regional treatment plants. In compliance with the city's Pretreatment Program requirements, the City of Upland has implemented a Non-Domestic Wastewater Permit Program since 1990, in accordance with Section 13.32.200, Article III, Chapter 13.32, Title 13 of the Upland Municipal Code. This program establishes regulatory oversight of non-residential dischargers to ensure compliance with local, state, and federal wastewater discharge standards.

Additionally, Upland Municipal Code Section 13.32.160 requires that any business where grease or other objectionable materials may be discharged – such as restaurants, bakeries, donut shops, drive-in eateries, ice cream parlors, hospitals, hotels, and markets – must install and maintain a grease and oil interceptor to prevent FOG from entering the public or private sewer system.

Currently, the city issues permits to approximately 209 permitted FSE's. However, there are likely additional FOG-contributing sources within the community, including institutional kitchens, school cafeterias, and catering operations, which may also discharge FOG into the sewer system and warrant monitoring or regulation.

7.2.1 Public Education and Outreach Program

Public outreach and education, led by the Utilities Division/Environmental staff, are ongoing activities and integral components of source control and the implementation of the pretreatment program. The city's Environmental Compliance Inspectors distribute brochures and informational pamphlets to FSE staff in the course of their inspections. FOG disposal information is also available on the City of Upland's website. In addition, educational brochures and handouts are provided at public information counters at City Hall. During inspections, magnetic reminder cards are distributed to kitchen staff at FSEs and are also shared with the public at community outreach and educational events.

7.2.2 Blockage Disposal Procedures

Solidified fats encountered in the collection system – such as grease logs, grease balls, or pellets – along with other debris removed during routine cleaning and flushing operations are captured, collected, and disposed of as solid waste. FOG in liquid or emulsified form is typically flushed downstream through the hydro-jetting process and conveyed to the IEUA regional trunk lines and finally the wastewater treatment and reclamation facilities for treatment and disposal.

Grease-laden wastewater removed from grease interceptors by licensed waste haulers must be documented with a waste manifest. Copies of these manifests, including information on final disposal locations must be submitted to Environmental Division staff within a specified timeframe. As referenced in Section 6.2.7, all recovered sewage and related waste materials must be transported and legally disposed of at the IEUA drying beds located in Chino, California.

In cases where FOG or non-domestic wastewaters require cleanup or disposal, FSE managers may choose to coordinate with third-party pumping and disposal companies. The City of Upland provides the following list of companies known to offer such services within the region. This list is not exhaustive, and the inclusion of any company does not constitute an endorsement or recommendation by the Environmental Division. FSEs are responsible for selecting service providers at their own discretion, based upon individual business needs and regulatory compliance.

The city encourages all parties to confirm that any contractor or hauler engaged for these services be properly licensed, permitted, and qualified to handle wastewater-related materials in accordance with state and local regulations.

Grease Pumpers (Listed Alphabetically):

- Baker Commodities 800.427.0696
- Darling Trap Cleaning 323.583.6311
- Disposal Control 909.984.3631
- Inland Pumping 951.734.8816
- J.C.'s Grease Buyers 951.736.1198
- K Vac Environmental 909.476.2308
- Minuteman Pumping 714.556.7867
- SMC Grease Specialist 951.788.0642
- Whitehouse Sanitation 951.652.5861

7.2.3 Legal Authority

The legal authority to restrict and prohibit FOG discharges to the sewer system is discussed extensively in this SSMP under Section 3: Legal Authority. UMC Section 13.32.160, Special Restrictions – Grease Interceptors requires that any type of business, such as but not limited to restaurants, bakeries, donut shops, drive-in eating establishments, ice cream or milk stations or drive-ins, hospital, hotels, markets, etc., where grease and other objectionable materials may be discharged to the sewers, must have a grease and oil interceptor. This section of the code also includes requirements for the maintenance and upkeep of such grease interceptors. As mentioned in Section 2.2, the Assistant City Manager/Public Works Director is the Legally Responsible Official in charge for implementation of the SSMP.

7.2.4 Requirement to Install Grease Removal Devices

To prevent sewer pipe blockages and SSOs, the city requires the installation of grease removal devices in FSEs and other facilities which generate grease-laden wastewater. These devices, including grease interceptors and traps, must be properly sized, installed, and maintained to ensure compliance with the General Order for Sanitary Sewer Systems and local discharge regulations.

All applicable facilities within the city must:

- Install approved grease removal devices in accordance with the city's municipal code and industry standards.
- Conduct routine maintenance and cleaning to prevent excessive grease accumulation.
- Maintain disposal records/manifests, submitting copies to PWD Environmental Division staff within a certain period.
- Undergo periodic inspections to verify compliance with grease management requirements.

Failure to install or maintain grease removal devices may result in enforcement actions, including fines, operational restrictions, or additional compliance measures. The city will continue to monitor grease-producing establishments to ensure adherence to best practices for sewer system protection.

7.2.5 Authority to Inspect Grease-producing Facilities

To ensure compliance with the Sewer Pipe Blockage Control Program, the city reserves the authority to inspect grease-producing facilities, including FSEs, commercial kitchens, and other businesses which discharge FOG-laden/non-domestic wastewater into the sanitary sewer system.

Inspection Authority and Legal Basis

The city's Environmental Division staff is authorized to conduct inspections under:

- SWRCB General Order requirements.
- City of Upland municipal code governing wastewater discharge and grease management.
- Local sewer pipe blockage ordinances which ensure compliance with grease removal device installation and maintenance.

Inspection Procedures and Compliance Verification

Routine inspections are to be conducted by the PWD Environmental Division staff to:

- Verify proper installation and maintenance of grease removal devices.
- Assess grease disposal practices and ensure waste manifests are submitted within the required timeframe.
- Identify non-compliant facilities with the potential to cause SSOs and perform follow-up inspections.

Enforcement Actions for Non-compliance

FSEs and other businesses found in violation of grease management requirements may be subject to:

- Corrective action requirements for immediate compliance measures.
- Fines or penalties for repeated violations.
- Operational restrictions if grease management practices pose a risk to the public or environment.

The city will continue to monitor grease-producing establishments to ensure adherence to best practices for sewer system protection.

7.2.6 Special Maintenance Sites and Cleaning Schedule

As discussed under Section 4: Operations and Maintenance Program, the city has an "areas of concern" cleaning program whereby several pipe segments are cleaned on a bi-monthly frequency. The list includes several of the "identified" FOG-prone sewer segments. These segments are typically cleaned by hydro-jetting or rodding of blockages, whether by grease build-up or root intrusions, are encountered.

The city plans to continue with the current cleaning program, as well as work with the permitted FSE's to implement best management practices, to minimize the discharge of FOG-laden non-domestic wastewater.

7.2.7 Implementation of Source Control Measures

The City of Upland's Non-Domestic Wastewater Discharge Permit Program along with its associated monitoring, sampling, inspection, and public education components, has been effective in minimizing FOG-related issues within the sewer system. The implementation of Best Management Practices (BMPs) by FSE kitchen staff – including scraping food waste, dry-wiping dishes and utensils

prior to washing, maintaining general housekeeping standards, and properly handling and disposing of used cooking oil – has significantly contributed to the reduction of FOG discharges.

To support ongoing compliance and efficient program administration, the city utilizes a commercial off-the-shelf software solution called Linko. Linko is a reputable compliance and pretreatment software platform developed by Aquatic Informatics. This software is a specialized FOG management program designed to enhance regulatory oversight and streamline enforcement. Upland's Environmental Division uses the software for the following functions:

- Tracking facility information, contacts, communication records, violation notices, and sampling/monitoring results
- Maintaining records of grease interceptor sizes, cleaning frequencies, grease haulers, and maintenance schedules
- Scheduling and tracking inspections, grease interceptor cleanings, and related activities using customizable calendar views (weekly, monthly, and annual)
- Generating and distributing compliance letters, inspection results, and enforcement notices to permitted dischargers and FSEs

Appendix H provides a comprehensive list of active Non-Domestic Wastewater Discharge Permittees and potential FOG contributors currently monitored and managed through the compliance management system software.

The city's Environmental Division inspection staff will continue to monitor and promote the implementation of BMPs during their FSE inspection programs and incorporate BMP requirements in their permit issuance and renewal process.

Section 8

System Evaluation, Capacity Assurance, and Capital Improvements

8.1 WDR Requirement

The SSMP must include procedures and activities for:

- Routine evaluation and assessment of system conditions: 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 appropriate 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 flows associated with overflow events. The evaluation must also identify system assets vulnerable to direct and indirect impacts of climate change.
- Capacity assessment and design criteria: where design criteria do not exist or are deficient and/or limit capacity, undertake the evaluation identified to establish appropriate design criteria.
- Prioritization of corrective actions: the steps needed to establish a short-term and long-term capital improvement plan (CIP) that includes prioritization, alternative analysis, and schedules of projects to address identified hydraulic deficiencies. The CIP may include pipe size increases, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP must include an implementation schedule and identify funding sources.
- A capital improvement plan: enrollee must prepare and implement a 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. The enrollee must develop a schedule of completion dates for all portions of the CIP. This schedule will be reviewed and updated consistently with the SSMP review and update requirements as described in the General Order.

8.2 System Evaluation and Condition Assessment

The city last prepared and implemented a Sewer Master Plan in 2006. That plan incorporated land use changes that had occurred since 1998 and included a comprehensive system capacity review to assess the current condition of the city's sewer system. It also identified needs to replace, rehabilitate, and expand the system to support growth and redevelopment. Since the completion of the 2006 update, the city's service area has experienced continued development and notable changes to its sewer flows related to water demand reductions, associated drought conditions, and conservation efforts. Due to these changes, the city recognized the importance of updating its Master Plan and developing a CIP for infrastructure upgrades and construction for its wastewater collection system. The city is currently undertaking an effort to update its Master Plan, with the final

report to be completed in 2025. The updated Master Plan is being developed as a long-term planning tool to study the impacts of projected growth and development upon hydraulic capacity. The following accomplishments and benefits will be realized through preparation of the Master Plan:

- Defines the long-term needs of the city sanitary sewer system, including capacity improvements and condition assessment and rehabilitation planning.
- Provides a detailed description of the collection system and documents flow routing for use in operating and planning new pipelines.
- Provides valuable information for making decisions upon collection system operations, financing, staffing, and building permitting.
- Provides the basis for financial planning so that resources are available when needed.
- Reduces the cost of planning, design, and construction by providing an accurate system description.
- Facilitates proactive management of the sanitary sewer system.

The city is located inland and maintains sole responsibility for its wastewater collection system, which operates independently of the stormwater system. Due to the complete separation of wastewater and stormwater infrastructure – and the fact that all wastewater system components are located underground – significant or immediate impacts related to climate change are not currently anticipated. However, potential increases in rainfall intensity, combined with aging infrastructure, could contribute to elevated rainfall-dependent inflow and infiltration (RDII), potentially leading to SSOs. The city's ongoing planning, asset management, and preventative maintenance efforts are designed to proactively address these risks and ensure long-term system resilience in the face of climate-related challenges.

8.2.1 Capacity Enhancement Measures

The findings of the Master Plan are based upon the hydraulic and observed conditions of the city's existing collection system. As development increases within the city, some pipelines may need to be replaced, rehabilitated, or modified to provide sufficient capacity in the system for increased flows.

Upland has been using sewer flow simulation software since 1983 when an engineering firm, Neste, Brudin and Stone, developed the city's first computer model (DOS-based, BASIC language programming) which used flow, velocity, and time of travel to represent actual sewer system conditions. The timed-flow program used the Manning's equation and solved directly for depth of flow within each pipe. Depth-of-flow information is essential for city staff to evaluate sewer pipeline capacity.

As part of the 2025 Master Plan update, the city's hydraulic model was re-developed using Innovyze InfoWorks™ ICM. This dynamic modeling software computes wastewater flows based upon user-supplied information on land use, unit flows, peaking factors, and I/I allowances. Flow calculations are validated using flow monitoring data collected in the field over a period of at least 4 weeks. The updated hydraulic model includes various future city development scenarios and identified pipeline segments which could be deficient. The future scenarios modeled include low- versus high-intensity redevelopment and low versus high water use conservation impacts and include a review of potential impacts of development within its sphere of influence, particularly the adjacent San Antonio Heights areas which could be served by gravity flow through the city's sewer system.

The preliminary findings of the Master Plan do not indicate any existing capacity deficiency within the city's existing collection system. Future development plans will be reviewed and assessed to determine if capacity improvement projects are needed during Master Plan implementation.

8.2.2 Condition Assessment

As part of the 2025 Master Plan, an initial review of the existing collection system is being performed to identify priority areas for near-term rehabilitation or replacement. This assessment was based upon a combination of city staff observations, maintenance records, and pipe age information. As part of the next steps, the city has identified the need to perform a system evaluation to better understand and plan for future rehabilitation and replacement needs. The evaluation will include CCTV inspections, with locations phased based upon input from city staff, maintenance records, pipeline age, areas where rehabilitation or replacement has already occurred, and areas which may have a higher environmental risk if a line break or SSO occurred.

Based upon CCTV results and the condition assessment, a prioritized list of projects will be established to develop a near-term CIP to be implemented on schedule with the city's biennial budget, as well as a long-term CIP. Projects will be identified based upon condition and risk of failure. In addition, areas with known developments or other capacity-related issues will be considered.

8.3 Capacity Assurance and Design Criteria

The 2025 Master Plan effort has been using the updated hydraulic model of the collection system to evaluate the existing system's ability to convey current and future flows. Using a 10-year, 24-hour design storm to assess potential and future peak flow events, the preliminary results do not indicate any hydraulic deficiencies. Additionally, the city has not reported or recorded any incidents of sanitary sewer overflows caused by hydraulic deficiency.

As noted in Section 5.2, the city uses Greenbook standards for design of its collection system. Based upon the capacity assessment, these standards provide adequate system capacity.

8.4 Prioritization of Corrective Action

See Section 4.2 for details on the city's approach for urgent and non-urgent repairs. Section 8.5 provides an overview of the city's CIP.

8.5 Capital Improvement Plan and Schedule

The city recognizes the essential role of capital improvement projects in sustaining a reliable and efficient sanitary sewer system and has consistently advanced rehabilitation and replacement (R&R) efforts as part of its ongoing infrastructure strategy. The forthcoming 2025 Sewer Master Plan will outline an updated list of short- and long-term projects required to address system deficiencies and accommodate future growth. Additionally, as part of the development review process, the city typically requires developers to submit conceptual sewer studies. These reports are used to assess capacity demands, evaluate and compare alternative solutions based upon current and projected operational needs, and recommend preferred strategies which align with the city's comprehensive sewer system planning framework.

As previously noted, flow modeling results indicate that the existing sewers appear to have adequate capacity; thus, the CIP will emphasize R&R projects. A complete list of near- and long-term projects, including projected costs, will be included in the 2025 Master Plan.

Section 9

Monitoring, Measurement and Program Modifications

9.1 WDR Requirement

The Enrollee must:

- Maintain relevant information which can be used to establish and prioritize appropriate SSMP activities.
- Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP.
- Assess the success of the PM program.
- Update program elements, as appropriate, based on monitoring or performance evaluations.
- Identify and illustrate SSO trends, including frequency, location, and volume.

9.2 Data Collection and Reporting

The City of Upland maintains various systems and procedures to support the collection, management, and reporting of data essential to successful SSMP implementation. These systems enable the city to monitor performance, assess system condition, document maintenance activities, and ensure regulatory compliance. Major data management activities are established and prioritized as follows:

- **Nobel Geoviewer:** A computerized maintenance management system (CMMS) used to schedule, track, and document preventative and corrective maintenance activities, including hydro-jetting, root removal, and repairs.
- **CityGIS (Digital Map Products):** A web-based GIS mapping platform which stores and displays sewer collection system attributes such as pipe material, diameter, installation date, and manhole locations. It supports spatial analysis and asset management.
- **Maintenance Records:** Hard copies of cleaning logs and documentation of all preventative and corrective maintenance activities are retained for internal review and audit purposes.
- **CCTV Inspections:** Video inspections are conducted to assess the condition of sewer mains, identify defects, and prioritize rehabilitation or replacement projects.
- **Electronic SSO Reporting Systems:** The city utilizes multiple platforms to report and track SSOs, including:
  - **CIWQS:** Administered by the SWRCB, this system tracks SSO volume, location, cause, and regulatory response. It also manages permits, inspections, violations, and enforcement actions.
  - **RWQCB's 2-hour/24-hour Reporting Portal:** Used to meet mandatory notification timelines for SSOs which reach surface waters or pose a public health risk.

Using the information available in the Nobel Geoviewer system and the SSO reporting system, the city will be able to measure the effectiveness of the SSMP by tracking the various parameters related to service calls and maintenance and inspection activities, as well as by comparing SSO trends from previous years and identifying system components which continually contribute to system deficiencies. Specifically, the city plans to track the following parameters to measure the SSMP efficiency and its effectiveness in reducing SSOs:

- Number of SSOs per year
- Volume of SSOs per year
- Number of dry weather SSOs per year
- Number of SSOs per year by cause (e.g., roots, grease, pipe failure, I/I, pump failure or other deficiency, etc.
- Response time to SSOs and other service calls (time from call received to first responder arriving on site)
- Length of gravity sewers cleaned annually
- Actual versus scheduled cleaning dates for gravity sewers
- Annual CCTV inspections
- Condition ratings develop to help prioritize future sewer rehabilitation projects and maintenance activities, and update other SSMP program activities as required

9.2.1 Nobel Geoviewer

The city uses the Nobel Geoviewer platform to support comprehensive data management across its sewer infrastructure. This GIS-integrated system enhances operational efficiency, regulatory compliance, and real-time field responsiveness through the following key functions:

- Work Order Management:
  - Schedule, assign, and monitor maintenance activities such as hydro-jetting, CCTV inspections, and pipeline repairs.
  - Have field crews access and complete work orders in real time via a mobile application.
  - Provide seamless integration with CMMS for task tracking and resource planning.
- Asset Mapping and Inventory:
  - Access detailed GIS maps of sewer infrastructure, including pipelines, manholes, lift stations, and more.
  - Link each asset to photographs, maintenance history, and condition ratings.
  - Collect and update field data using GPS-enabled devices.
- Inspection and Condition Assessment:
  - Record inspection outcomes, including CCTV footage, defect codes, and condition scores.
  - Align inspection protocols with National Association of Sewer Service Companies' (NASSCO) Pipeline Assessment Certification Program (PACP) standards for consistent pipe condition assessment.
  - Monitor long-term asset health and prioritize rehabilitation or replacement projects.
- Preventative Maintenance Scheduling:
  - Automate recurring maintenance based upon time intervals, system usage, or risk profiles.

  - Schedule tasks such as hydro-jetting, root intrusion removal, and manhole inspections.
- Reporting and Compliance:
  - Generate reports to support internal operations and fulfill regulatory requirements, including SSMP documentation.
  - Use custom dashboards and key performance indicators to monitor system performance, maintenance backlog, and compliance metrics.
- Real-time Field Integration:
  - Enable field crews to access data offline and sync updates when reconnected.
  - Capture field notes, asset condition updates, and photographs directly through the mobile app.
- Leak and Overflow Response:
  - Rapidly dispatch emergency crews to respond to SSOs or pipeline leaks.
  - Trace flow direction and identify upstream/downstream connections, as well as impact zones.

The GIS maps are a primary tool in prioritizing and scheduling sewer assessments and maintenance activities in the PM program. The city continues to perform extensive data collection and analysis to optimize efficiency and effectiveness of its wastewater collection and conveyance system.

9.3 Procedures for Assessing PM Activities

The following evaluations and assessments are used to define, track, and measure SSMP effectiveness.

9.3.1 Assessment of Program Modifications

CCTV inspection is used to assess the condition of sewers. The city uses a rating system which is based upon the type and severity of defects. The damage (or deficiency) ratings range from 1 (no damage – excellent) to 100 (emergency) condition. The condition ratings trigger follow-up actions which may include:

- Increased monitoring and maintenance to keep a problem sewer fully operational while a capital improvement project is being developed and implemented to provide a long-term solution.
- Development of rehabilitation and/or replacement projects which are scheduled, implemented, and prioritized based upon damage ratings:
  - Ratings from 1 to 20 are sewers in excellent to good condition and are scheduled for continued monitoring and inspections once every 10 years.
  - Ratings from 21 to 40 are sewers considered to be in fair condition and are scheduled for follow-up inspections once every 5 years.
  - Ratings from 41 to 60 are sewers considered to have moderate damage or deficiencies. These sewers are closely monitored and are included in the CIP for replacement and/or rehabilitation within 5 years.
  - Ratings from 41 to 60 which also involve an increase in preventive measures, as appropriate, to avoid emergency situations; follow-up inspections are conducted annually.
  - Ratings from 61 to 100 are sewers considered to have severe to emergency conditions. Severe conditions are sewers which may have a partial obstruction of flow or a significant

crack which could lead to pipe failure. Emergency conditions are sewers where a pipe failure has already occurred or there is a full flow obstruction. Severe and emergency conditions are immediately repaired and restored.

9.3.2 Operation and Maintenance Program

The city has a proactive and preventive maintenance program for its collection system. Maintenance is performed by Sewer Division staff. Preventive maintenance focuses on "critical" areas, e.g., have a history of problems, either from sewer backups caused by roots and debris, FOG, and other causes, as documented and tracked with the Nobel Geoviewer software..

The critical sewer segments are identified, prioritized, and scheduled for maintenance based upon a comprehensive review of maintenance history and system characteristics of all sewers in the city including overflows, blockages, excessive maintenance, age, pipe material, and condition assessment records.

In an effort to prevent SSOs, flow monitoring and CCTV records are reviewed to identify potential defects in the system. Through this process, sewer locations with high flow levels and poor conditions are identified. The assessment activities generate further reviews to determine cause and/or may trigger immediate or accelerated corrective actions. Maintenance priorities are set based upon the relative severity of the problem.

In addition to the focused PM efforts, the city has implemented a proactive maintenance program where "non-problem" sewers are also scheduled for maintenance and cleaning on a less frequent basis. This proactive maintenance program includes cleaning and maintenance of the entire system at least once every 18 months. On an annual basis, the city performs approximately 800,000 LF of PM cleanings, which is equivalent to approximately 150 miles of sewers.

9.3.3 SSO Response

PWD managers and sewer utility staff meet biannually to review emergency policies and procedures outlined in the SSO Response Plan (Public Works Policy and Procedure No. 4601) and collaborate upon methods and procedures which will improve performance. Aggressive performance standards for timely response to SSOs are established and communicated to overflow response teams. Response protocol is reviewed periodically and updated as needed based upon a review of established and actual response times.

Section 10

Internal Audits

10.1 WDR Requirement

As part of the SSMP, the enrollee must conduct periodic internal audits appropriate to the size of the system and number of SSOs. At a minimum, these audits must occur every 3 years, and a report must be prepared and kept on file. The audit focuses on evaluating the effectiveness of the SSMP and the enrollee's compliance with the SSMP requirements identified in the General Order.

10.2 Internal Audit Procedures

SSMP goals and performance parameters are set each year as part of the collection system improvement strategic planning process. Progress is measured and reported on an ongoing basis to meet the defined SSMP goals. Any differences between targeted goals and actual results are identified, and mitigation measures are developed and implemented to improve performance.

The scope of the SSMP audit will cover performance measures and benchmarks which are established through:

- SSMP audit checklist
- Ongoing performance reviews of the SSMP
- Experienced personnel audits of the SSMP at least once every 3 years, which entails:
  - Evaluating all parts and sub-parts
  - Identifying any deficiencies
  - Making recommendations for improvements and updates as appropriate
  - Maintaining audit reports and related materials in a comprehensive hard copy and electronic document tracking and management system

Audit results will be included in the SSMP Audit Report. The SSMP Audit Report will focus on the effectiveness of the SSMP program and compliance with the General Waste Discharge Requirements program and will identify any revisions which may be needed for a more effective program. Information collected as part of Section 9 – Monitoring, Measurement, and Program Modifications will be used to prepare the audit. Tables, figures, and charts will be used to summarize information regarding performance indicators. The city will certify the completion of the audit every 3 years.

Section 11

Communication Program

11.1 WDR Requirement

The enrollee will communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communications must ensure that the public is given the opportunity to provide input during both the development and implementation of the program.

The enrollee must also create a plan of communication with collection systems which are tributary and/or satellite to the Enrollee's sanitary sewer system.

11.2 Summary of City's Communication Program

The city's primary sewer system users include residential, commercial, and industrial customers located within Upland. Additionally, one satellite agency – the unincorporated community of San Antonio Heights - contributes flow to the city's sanitary sewer collection system. The satellite agency primarily serves residential customers who are connected to collector sewers located within its designated service area.

Copies of the current SSMP document will be available to interested parties at the PWD office at 1370 N Benson Avenue during normal business hours. It is also available online at the City of Upland website under the heading 'What's New – Sanitary Sewer System Management Plan.''

11.2.1 Public Communication Procedures

In the event of an SSO or service disruption the city communicates directly with affected residents using methods which prioritize accessibility and timeliness. Public communication may include the distribution of printed notices, door-to-door communication, and physical posting of informational pamphlets in impacted areas. Residents may also contact the city's PWD at 909.931.4100 or visit www.uplandca.gov. Additionally, the Upland Public Works app is another way for residents to report issues, upload photos, and receive notifications when their requests have been addressed. Submitted reports are transmitted directly to the city, which expedites response times.

11.2.2 System Connection Communication Procedures

Information regarding how to connect to the city's sanitary sewer system is made available to property owners and developers through the City of Upland's website or by contacting PWD. To request assistance or obtain details regarding system connection procedures, applicants may contact the city's PWD at 909.931.4100 or visit www.uplandca.gov. The Upland Public Works app may also be used to submit inquiries related to system connections.

Section 12

References

City of Upland Municipal Code. Code of Ordinances. Available at https://ecode360.com/UP5026 (2025).

Inland Empire Utilities Agency, 2025. Sewer System Management Plan – 2025 Final, IEUA, April 2025, https://www.ieua.org/wp-content/uploads/2025/04/IEUA-2025-SSMP-Final.pdf (2025).

Orange County Sanitation District, 2024. Sewer System Management Plan, Volume II, Appendix B, OC San, June 2024, https://www.ocsan.gov/wp-content/uploads/2024/06/OC-San-SSMP-Vol-II_App_B_S-1.pdf (2025).

State Water Resources Control Board, 2022. Certified Sanitary Sewer Systems General Order, California Water Boards, December 2022, https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2022/wqo_2022-0103-dwq.pdf (2025).

Section 13

Limitations

This document was prepared solely for City of Upland in accordance with professional standards at the time the services were performed and in accordance with the contract between City of Upland and Brown and Caldwell dated December 12, 2022. This document is governed by the specific scope of work authorized by City of Upland; it is not intended to be relied upon by any other party except for regulatory authorities contemplated by the scope of work. We have relied on information or instructions provided by City of Upland and other parties and, unless otherwise expressly indicated, have made no independent investigation as to the validity, completeness, or accuracy of such information.

Appendix A: CIWQS-Registered City of Upland Team Members

The following City of Upland employees are currently registered with CIWQS as Legally Responsible Officials and Data Submitters:

- Damien Arrula
    - Title: Assistant City Manager/Public Works Director
        - **Legally Responsible Official**

- Vacant
    - Title: Deputy Director of Utilities
        - **Data Submitter**

- Nicole deMoet
    - Title: Environmental Compliance Programs Manager
        - **Data Submitter**

- Norberto Ferreira
    - Title: Acting Utilities Manager
        - **Data Submitter**

- Jason Lara
    - Title: Utilities System Supervisor -Sewer Division
        - **Data Submitter**

- Erik Stene
    - Title: Regulatory Compliance Specialist
        - **Data Submitter**

Appendix B: Regional Sewage Service Contract

Regional Sewage Service Contract

With Exhibits

Dated November 1, *2023*

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(continued)

RECITALS

A. WHEREAS, the parties previously entered into that certain Chino Basin Regional Sewage Contract, dated as of January 2, 1973, and amended April 12, 1984 and October 19, 1994; and

B. WHEREAS, said contract provided an effective term of 50 years and lapsed on January, 2, 2023; and

C. WHEREAS, the parties wish to enter into a new Regional Sewage Service Contract effective immediately; and

NOW THEREFORE, the parties agree as follows:

SECTION 1 - DEFINITIONS

Unless otherwise required by the context, various terms used in this Contract, including the recitals, shall have the meanings set forth in this section. The singular number includes the plural and the plural the singular.

"Acquire" or "Acquisition" means to acquire or make the acquisition of one or more of the following:

A. Fee simple title to land.

B. Any interest in land by deed, easement, lease, sublease, contract or otherwise.

C. Title to or any interest in any existing facilities located upon land.

D. Interests or capacity rights in any land or facilities owned by others.

"Capacity Demand" means the volume and strength (i.e., biochemical oxygen demand and suspended solids) of sewage discharged from the Community Sewer System of a Contracting Agency into the Regional Sewerage System.

"Capital Capacity Reimbursement Account" means the accounts established and maintained by the Contracting Agencies and to which are deposited or credited Capital Capacity Reimbursement Payments.

"Capital Capacity Reimbursement Payment" means a deposit or credit made to the Capital Capacity Reimbursement Account of a Contracting Agency for new connections to its Community Sewer System.

"Chino Basin" means that area underlain by the Chino and Cucamonga groundwater basins and that portion of the Claremont Heights groundwater basin within San Bernardino County which groundwater basins are described in Bulletin No. 53 of the California Division of Water Resources, dated March, 1947, and entitled "South Coastal Basin Investigation - Overdraft on Groundwater Basins."

"Commercial Unit" means a building, establishment or premises where businesses selling goods or providing professional or other services to the public or governmental offices are or will be located.

"Community Sewer System" means all facilities owned, controlled or operated by a Sewage Collection Agency for the purpose of collecting and conducting sewage to a Delivery Point, including collector sewers conducting sewage from the originating premises, trunk sewers conducting sewage from tributary collector sewers or other trunk sewers and any facilities appurtenant to the foregoing.

"Contracting Agency" means any Sewage Collection Agency located, in whole or in part, within the boundaries of IEUA which has entered into this Regional Sewage Service Contract with IEUA.

"Demand Deficit" means the difference between the aggregate total Forecasted Demand of a Contracting Agency and the total aggregate Equivalent Dwelling Units connected to its Community Sewer System during an eight-year period commencing with the fifth fiscal year preceding the fiscal year for which IEUA is at the time of the determination of such difference preparing a Ten-Year Sewer Capital Forecast, and including the initial three fiscal years of such Ten-Year Sewer Capital Forecast.

"Delivery Point" means the transfer point at which Sewage is delivered from a Community Sewer System into the Regional Sewerage System.

"Dispose" or "Disposal" means any process or method for the elimination or beneficial use of Sewage and any Effluent or solid waste residuals thereof, including exportation from the Chino Basin.

"Effluent" means the liquid outflow at the discharge point of any Regional Treatment Plant.

"Equivalent Dwelling Unit" or "EDU" means a measure of sewage flow equivalent in quantity and strength to the daily flow of an average single-family household determined by resolution of the Board of Directors of IEUA and referred to as Exhibit "J" hereto.

"Expansion" means the acquisition or construction of new facilities for the Regional Sewerage System and the making of any replacements, betterments, additions or extensions of the Regional Sewerage System.

"Facilities" means any pipelines, buildings, structures, works, improvements, fixtures, machinery, equipment, or appliances and any real property, or interests therein, necessary or convenient for the construction, maintenance and operation of any of the Regional Sewerage System.

"Fiscal Year" means a 12-month period commencing on July 1 and ending on the following June 30.

"Forecasted Demand" means the yearly forecasted or estimated volume and strength of sewage discharged from the Community Sewer System of a Contracting Agency into the Regional Sewerage System as set forth in a Ten-Year Sewer Capital Forecast.

"IEUA" means the Inland Empire Utilities Agency, a municipal water district.

"Industrial Unit" means a building, establishment, or premises where manufacturing, fabrication or assembly operations or industrial or chemical processes are conducted.

"Industrial Waste" means any wastewater and any water borne solid, liquid, or gaseous wastes resulting from any producing, manufacturing, or processing operations of whatever nature as more particularly defined, from time to time, by any federal, state, or regional agency authorized by law to prescribe quality standards for the discharge of sewage effluent and industrial waste effluent within the Chino Basin.

"Non-Domestic Waste" means waste or wastewater discharged into the Community Sewer System of a Contracting Agency which has a greater concentration of total dissolved solids or biochemical oxygen demand or any other constituents limited by IEUA than the waste or wastewater discharged from the typical single family domestic household in the Contracting Agency's Service Area.

"Orange County Judgment" means the judgment entered in the action entitled Orange County Water District v. City of Chino, et al. (Case No. 117628, Superior Court, County of Orange).

"Recycled Water" means as defined in Title 22, Division 4, Chapter 3, Water Recycling Criteria, Section 60301.050 et seq., of the California Code of Regulations; water which is available as a result of the treatment of wastewater. Also as described in subdivision (n) of Section 13050 of the Water Code of the State of California, treated wastewater that is suitable for direct beneficial use or a controlled use that would not otherwise occur.

"Regional Interceptor" includes, but is not limited to, pipelines, facilities and appurtenances which receive sewage from the most downstream trunk or collector sewer of a Community Sewer System, or a portion thereof, for the purpose of transmitting the sewage to a Regional Treatment Plant or to any other point of disposal, and any facilities appurtenant thereto, or any sewer which is utilized for the transmission of the sewage of two or more Contracting Agencies to such a plant or point of disposal.

"Regional Policy Committee" means the committee provided for in Section 24 hereof

"Regional Sewerage System" means all facilities owned, controlled, or operated by IEUA and any interest or capacity rights of IEUA in facilities owned, controlled, or operated by others, for the purpose of transmitting, treating and/or disposing of Sewage, including interceptor sewers, sewage treatment and disposal plants, facilities for the Disposal of Effluent and solid waste residuals and any facilities appurtenant to the foregoing. The Regional Sewerage System does not include the Recycled Water system which is owned, operated, managed, and maintained by IEUA. The Regional Sewerage System shall include all other disposal facilities which are required to meet the requirements of the National Pollutant Discharge Elimination System Permit or permits or Waste Discharge Requirements issued to IEUA by the Regional Water Quality Control Board, Santa Ana Region, for the operation of the Regional Treatment Plants.

"Regional Technical Committee" means the committee provided for in Section 25 hereof.

"Regional Treatment Plant" means a sewage and wastewater treatment plant operated by IEUA as part of the Regional Sewerage System.

"Regional Wastewater Capital Improvement Fund" means the fund of IEUA into which is deposited all Supplemental Capital Outlay Funds received by IEUA from the Contracting Agencies for the acquisition, construction, improvement, and expansion of the Regional Sewerage System.

"Residential Unit" means a single-family residence, a condominium unit, an apartment unit or other such structure or portion thereof which is equipped and suitable for human habitation or a mobile home space in a mobile home park, not including, however, transient lodging rooms in motels or hotels which are considered to be commercial units.

"Santa Ana River (SAR) Base Flow Obligation" means the obligation established under the Orange County Judgment and defined under the Prado Settlement, Stipulations and Orders of Dismissal re Certain Defendants and Cross-Defendants (filed April 17, 1969), and the October 2, 1968, CBMWD – WMWD Agreement re Satisfaction of Joint Obligation Prado Settlement ("Allocation Agreement"), the October 28, 1968 Agreement between Chino Basin Municipal Water District and City of Pomona re the Prado Settlement, and the December 18, 1968 Agreement Between Western Municipal Water District of Riverside County and City of Corona in Regard to Prado Settlement (collectively "Settlement Agreement"), which obligation defines the shared responsibility for a Base Flow obligation at Prado Dam between IEUA and Western Municipal Water District. IEUA implements the Chino Basin portion of the Settlement Agreement which is commonly referred to as the Santa Ana River ("SAR") Base Flow obligation at Prado.

"Service Area" means all territory now or hereafter served by the Community Sewer System owned, controlled or operated by any Contracting Agency. The IEUA service area includes the Cities of Chino, Chino Hills, Fontana, Montclair, Ontario, Upland, and the Cucamonga Valley Water District.

"Service Contract" means this Chino Basin Regional Sewage Service Contract and any substantially similar contract between IEUA and a Contracting Agency providing for the

Transmission, Treatment and Disposal of sewage from the Contracting Agencies by means of the Regional Sewerage System.

"Sewage" means any liquid waste and water borne solid waste resulting from residential, commercial, industrial, or institutional activities or uses.

"Sewage Collection Agency" means any county, city or special district, other than IEUA, which is located in whole or in part within the IEUA Service Area and which is authorized to own, control and operate a Community Sewer System.

"Sewer" means any pipeline conducting sewage, either by gravity or by pressure, and any facilities appurtenant thereto.

"Sewer User Charge" means any charge, fee, rental, or rate, excluding property taxes and Capital Capacity Reimbursement Payments, which is imposed on and collected from the owner, lessee, or occupant of property for providing services and facilities of any Community Sewer System or the Regional Sewerage System, or both.

"Supplemental Capital Outlay Funds" means contributions by a Contracting Agency from its Capital Capacity Reimbursement Account reserves to IEUA to supplement the funding of the planning, design and construction of Regional Sewerage System capital improvement projects.

"Transmit" or "Transmission" means the conducting (i) of Sewage from any Delivery Point to a Regional Treatment Plant or other point of Disposal or (ii) of Effluent from a Regional Treatment Plant to a point of Disposal;

"Treat" or "Treating" or "Treatment" means any process or method for altering the quality of Sewage and/or Effluent to meet applicable regulatory standards for Disposal or beneficial reuse.

"Wastewater Treatment Plant" or "WWTP" means a sewage and wastewater treatment plant constructed by a Contracting Agency and is not a part of the Regional Sewerage System.

SECTION 2 - RIGHTS AND OBLIGATIONS

The Contracting Agencies shall have the right to deliver all Sewage collected by its Community Sewer Systems to the Regional Sewerage System and IEUA shall have the obligation to receive into the Regional Sewerage System all Sewage so delivered by the Contracting Agency subject to the provisions of this contract.

SECTION 3 - COMMUNITY SEWER SYSTEMS

Each Contracting Agency shall be responsible for all costs and expenses of the acquisition, construction, operation, and maintenance of its Community Sewer System.

A. Inspection of Facilities

Any authorized officer or employee of IEUA may enter and inspect any part of the Community Sewer System of any Contracting Agency during normal working hours on regular business days and upon the giving of not less than 24 hours prior notice of the inspection, except during emergencies.

SECTION 4 - RESERVED

SECTION 5 - REQUESTS FOR REGIONAL INTERCEPTORS AND WASTEWATER TREATMENT PLANTS

Regional Interceptors are a part of the Regional Sewerage System and their design and construction or acquisition shall be financed as provided in Section 9 hereof. Separate from the Regional Sewerage System, a Contracting Agency may construct, own and operate a wastewater treatment plant ("WWTP") or permit another person, firm or corporation to construct a WWTP which will be controlled and operated by the Contracting Agency when to do so is not detrimental to the operation of the Regional Sewerage System. The IEUA Board shall consider requests for Regional Interceptors and Contracting Agency construction of WWTPs pursuant to the following procedures:

A. Request To IEUA – Regional Interceptor and Contracting Agency Construction of WWTP.

1. Any Contracting Agency may make a written request to IEUA for a determination as to the location of a new Regional Interceptor, an acquisition of an existing Regional Interceptor, or the construction of a WWTP.

2. Notification. IEUA shall provide the Regional Technical Committee notice of written request from the Contracting Agency within 45 days of its receipt.

3. Determination by IEUA. IEUA shall review and determine whether the action proposed in the request will be detrimental to the operation of the Regional Sewerage System and present an informational item with a recommendation to the Regional Technical Committee for the request.

4. Recommendation By Regional Technical Committee. The Regional Technical Committee shall review the request and determination by IEUA and shall provide a recommendation to the Regional Policy Committee as an informational item.

5. Review and Recommendation By Regional Policy Committee. The Regional Policy Committee shall review the recommendation from the Regional Technical Committee and issue its own recommendation to IEUA regarding the request.

B. Determination by the IEUA Board.

The IEUA Board shall review and consider the Regional Policy Committee's recommendation for the request, and shall issue its final determination. The failure of the Regional Technical Committee or the Regional Policy Committee to take action on the request shall not preclude IEUA from taking action on the request.

C. Request For Hearing.

Any Contracting Agency, that disagrees with the determination may file a written request for a hearing before the IEUA Board.

D. Cost/Expense of Contracting Agency WWTP.

A Contracting Agency which constructs a WWTP shall be solely responsible for the cost and expense of the construction and maintenance and operation of said plant. Any such WWTP which is constructed and owned by a Contracting Agency shall not be operated by IEUA as a part of the Regional Sewerage System without the written consent of all other Contracting Agencies and IEUA.

E. Operation And Maintenance of Contracting Agency WWTP.

A Contracting Agency which constructs a WWTP may enter into a contract with IEUA for the maintenance and operation of the plant subject to the terms and conditions agreed to by the parties. In the event a Contracting Agency and IEUA enter into such a contract, the budgeting and funding for the maintenance and operation of the plant shall be accounted for separately by IEUA in order to prevent any adverse impact on the Regional Sewerage System or any impact on the rates and charges imposed by IEUA under this Service Contract.

SECTION 6 - REGIONAL SEWERAGE SYSTEM; PROHIBITED DISCHARGES

IEUA shall own and operate a Regional Sewerage System for the Transmission, Treatment and Disposal of Sewage delivered by any Contracting Agency. The Regional Sewerage System, including any interests or capacity rights of IEUA in facilities owned, controlled or operated by others, shall be as shown or described in the IEUA Wastewater Facilities Master Plan, as amended from time to time, and is intended to accept domestic waste.

Use of the Regional Sewerage System by industrial users discharging process wastewater shall be governed by Ordinance No. 109, or any successors thereof.

Except as may be specifically provided on a temporary basis, no Contracting Agency shall discharge or cause to be discharged in the Regional Sewerage System any waste which exceeds or results in the inability of the wastewater treatment plant effluent to meet the wastewater discharge

requirements presently established by any State or Federal regulatory agency, or which may be adopted in the future.

A Contracting Agency shall not discharge wastewater, in quantities or concentrations, alone or in conjunction with a discharge or discharges from other sources that cause the pH of the wastewater entering the headworks of any Regional Treatment Plant to decrease below 6.0 Standard Units at any time.

A Contracting Agency shall not discharge wastewater, in quantities or concentrations, alone or in conjunction with a discharge or discharges cause an increase in temperature of a Regional Treatment Plant's influent to be above 90 degrees Fahrenheit, which normally occurs during the period of June through October, nor above 78 degrees Fahrenheit during the remainder of the year.

IEUA shall pay all costs and expenses incurred in the acquisition, construction, maintenance, and operation of the Regional Sewerage System. Each Contracting Agency shall, as provided in Section 17 hereof, pay to IEUA service charges representing a pro rata share of all net audited costs incurred by IEUA in the maintenance and operation of the Regional Sewerage System, and each Contracting Agency shall contribute Supplemental Capital Outlay Funds to IEUA for the improvement and expansion of the Regional Sewerage System as provided in Section 9 hereof.

Expansion of the Regional Sewerage System is done to accommodate growth and development within the respective Contracting Agency's service area and is based largely on growth projections and requests for expansion from the Contracting Agencies. Accordingly, voluntary withdrawal of wastewater flows by one or more Contracting Agencies could be detrimental to the Regional Sewerage System by creating stranded assets and resulting in increased costs to the remaining Contracting Agencies. Nevertheless, should a voluntary withdrawal of flows from the Regional Sewerage System occur, the impact of the withdrawal will be calculated by IEUA and an impact fee will be assessed against the withdrawing Contracting Agency.

SECTION 7 - REGIONAL PRETREATMENT PROGRAM

IEUA owns and operates the Regional Sewerage System facilities that are regulated by National Pollutant Discharge Elimination System (NPDES) permits issued by the Regional Water Quality Control Board, and which are subject to numerical discharge limitations and requirements. Those permit regulations and discharge limitations require the control and restrictions to the discharge of industrial wastewater on Significant Industrial Users (SIUs). Furthermore, the permit regulations require IEUA to implement pretreatment regulations in all jurisdictions tributary to IEUA's service area. The regional pretreatment program requirements between IEUA and the Contracting Agencies shall be established by resolution of the Board of Directors of IEUA and in Ordinance No. 109 and any successors thereof.

SECTION 8 - RESERVED

SECTION 9 - CAPITAL FINANCING OF REGIONAL SEWERAGE SYSTEM

A. General

The Regional Sewerage System and any improvement or expansion of that system will provide benefits to the entire territory served by that system in that the entire territory will be benefited by the protection of public health, the protection of the quality of water sources, the improvement of water management through integrated use of all sources of water supply, including sewage treatment plant effluent, the improvement of general conditions for individual, residential, commercial and agricultural development and the reduction in costs for the Transmission, Treatment, and Disposal of Sewage by the pro rata sharing of all costs incurred by IEUA in the maintenance and operation of the Regional Sewerage System.

The acquisition, construction, improvement, and expansion of the Regional Sewerage System shall be financed with real property tax revenues, revenues from capital capacity fees, sewage service charges levied by the Board of Directors of IEUA, grants and other financial assistance which may be available from any federal, state, local or other source, Supplemental Capital Outlay Funds contributed by the Contracting Agencies.

B. Taxes, Sewage Service Standby or Availability Charges

The Board of Directors of IEUA may fix, levy, and collect sewage service standby or availability charges for the purpose of financing the acquisition, improvement, and expansion of the Regional Sewerage System. The IEUA Board of Directors will adopt a property tax allocation plan, which will remain in effect until amended in IEUA's discretion. The IEUA Board of Directors may elect to add, consolidate, or rename funds as necessary to best manage the IEUA funds.

At the time of review of fund budgets, IEUA shall develop a plan that includes the basis for the tax allocation. IEUA shall inform the Regional Technical Committee and Regional Policy Committee of any proposed allocations of the property tax revenues intended for the Regional Wastewater Capital Improvement Fund and will consider input and recommendations from the committees prior to making a final determination.

C. Capital Capacity Reimbursement Account and Capital Capacity Reimbursement Payments

1. General

As a condition to sewage treatment service and for the purpose of providing Supplemental Capital Outlay Funds to IEUA, each Contracting Agency shall establish and maintain a Capital Capacity Reimbursement Account to which the Contracting Agency shall deposit or credit its Capital Capacity Reimbursement Payments. The amounts so deposited or credited by a Contracting Agency to its said account shall be used by the Contracting Agency only for the purpose of providing Supplemental Capital Outlay Funds to IEUA; provided that interest earned on such amounts shall not be so restricted and may be used by the Contracting Agency for any lawful purpose. The source of Capital Capacity Reimbursement Payments shall be at the discretion of each Contracting Agency.

2. Capital Capacity Reimbursement Payments

Each Contracting Agency shall have deposited or credited to its Capital Capacity Reimbursement Account a Capital Capacity Reimbursement Payment for each connection which has been or will

be made to its Community Sewer System or for each change in use of an existing commercial or industrial connection in an amount determined as follows:

a. The amount of the Capital Capacity Reimbursement Payment for each new connection to a Contracting Agency's Community Sewer System and for each change in use of any existing Commercial Unit or Industrial Unit which results in an increase in volume or strength of Sewage therefrom shall be determined by computing the number of Equivalent Dwelling Units therefor as provided in that document approved by Resolution of the Board of Directors and identified as "Exhibit J" and made a part hereof and applying the then current Capital Capacity Reimbursement Payment amount as established by the IEUA Board to each such EDU.

b. Notwithstanding the preceding provisions, the amount which a Contracting Agency is required to have deposited in or credited to its Capital Capacity Reimbursement account for any such new connection or change of use shall be reduced by payments, if any, made by the Contracting Agency to IEUA for the new connection or change of use to support Supplemental Capital Outlay Payments, made at IEUA's request.

c. A Capital Capacity Reimbursement Payment shall be deposited or credited to a Contracting Agency's Capital Capacity Reimbursement Account for such a new connection or change of use at the time of the issuance of a building permit or a sewer connection permit, or for changes in the use of existing Commercial Units and Industrial Units, or the permits required therefor. Upon request by a Contracting Agency, IEUA will review, with support and consultation as needed from the Building Activity Report (BAR) Subcommittee, fee calculations and collections by any Contracting Agency for any errors, within 30 days from the receipt of the monthly building activity report, as further described herein, unless a more expedited review is requested by Contracting Agency. In the event a Contracting Agency fails to deposit Capital Capacity Reimbursement Payments into the Contracting

Agency's Capital Capacity Reimbursement Account by the applicable deadlines, the Contracting Agency shall be required to make late payments in amounts which correspond to the adopted EDU rate in place at the time that said payments first became due and owing.

3. Capital Capacity Reimbursement Reports

a. Each Contracting Agency shall report monthly to IEUA, at such time as IEUA shall designate, the balance of the funds in its Capital Capacity Reimbursement Account as of the last day of the preceding month. Such monthly reports shall be in writing and shall include the calculation sheets and also contain the number of building permits and sewer permits which were issued in the Contracting Agency's Service Area during the preceding month and estimated volume of Sewage flows for all residential, commercial, and industrial connections within the Contracting Agency's Service Area for the current month and the cumulative total thereof. Commercial and industrial sewer connection permits shall be listed by individual permit with the number of fixture units and expected volume and strength of sewage for each permit. IEUA shall have 30 days from receipt of said reports to contact the applicable Contracting Agency with any questions or requests for clarification regarding the connection fee calculations reflected in said report.

b. IEUA shall maintain a summary accounting of the Capital Capacity Reimbursement Account reserves of all Contracting Agencies and shall make written semiannual reports to the Contracting Agencies on or before 1) July 15 (with actuals up to March 31) and January 15, (with actuals up to September 30) of each fiscal year. The reports shall include: (i) the amounts of the Capital Capacity Reimbursement Account reserves of all Contracting Agencies as of the last day of March and September respectively, (ii) the amount of the Regional Wastewater Capital Improvement Fund reserves as of the last day of March and September respectively, (iii) a summary of all expenditures from said fund incurred up to March and September respectively

for each Regional Sewerage System capital improvement project then in progress, (iv) an estimate of the amounts to be expended from said fund for each such project during the quarter then commencing or in progress (the "current quarter"), (v) the estimated amount of Supplemental Capital Outlay Funds, if any, which will be necessary for the Contracting Agencies to contribute to IEUA during the current quarter in order to provide a working capital balance in said fund which shall not exceed $5,000,000 on the last day of the quarter next succeeding the current quarter, and (vi) the amount, if any, of the contribution of Supplemental Capital Outlay Funds for each Contracting Agency for the current quarter, determined as provided in subparts E and F of this Section.

D. Determination of Demand Deficits

At the time of the preparation of each Ten-Year Sewer Capital Forecast, pursuant to Section 10 hereof, IEUA shall determine each Contracting Agency's Demand Deficit, if any. The determination of Demand Deficits pursuant to this subpart is for the sole purpose of allocating shortages in Supplemental Capital Outlay Fund payments as provided in subpart F of this Section. Except as provided in said subpart F, such determinations shall not result in the creation of an obligation or indebtedness on the part of any Contracting Agency to IEUA or other Contracting Agencies.

E. Supplemental Capital Outlay Fund Payments

On July 15, and January 15, of any fiscal year IEUA may require payment by each Contracting Agency from its Capital Capacity Reimbursement Account of Supplemental Capital Outlay Funds for the planning, design and construction of Regional Sewerage System capital improvement projects in the amount, if any, set forth for the Contracting Agency in the semiannual report due from IEUA on such date. Upon receiving such a demand from IEUA, each Contracting Agency shall pay the amount demanded to IEUA within 45 days of receipt of such demand. The amount of each Contracting Agency's proportionate share of the total amount of Supplemental Capital Outlay Funds demanded by IEUA from all Contracting Agencies shall be determined based on the

percentage which the amount of Supplemental Capital Outlay Funds demanded by IEUA from all Contracting Agencies is to the total amount of the current Capital Capacity Reimbursement Account reserves of all Contracting Agencies set forth in the semiannual report upon which the demand is based. The amount demanded by IEUA from each Contracting Agency on any such date shall be an amount determined by applying the percentage thus obtained to the balance of the reserves, not including interest, in the Contracting Agency's Capital Capacity Reimbursement Account set forth in the semiannual report upon which the demand is based. All amounts received by IEUA from the Contracting Agencies as Supplemental Capital Outlay Funds shall be deposited in or credited to the Regional Wastewater Capital Improvement Fund. All such amounts together with all interest earned thereon shall be available and utilized by IEUA solely for the purpose of financing the acquisition, improvement and expansion of the Regional Sewerage System.

F. Allocation of Supplemental Capital Outlay Fund Shortages

If at the time of any demand by for Supplemental Capital Outlay Funds, pursuant to subpart E of this Section, there are not sufficient funds deposited or credited to the Capital Capacity Reimbursement Accounts of all Contracting Agencies to pay the full amount of the demand, each Contracting Agency which has a Demand Deficit shall pay the full balance then deposited or credited to its Capital Capacity Reimbursement Account plus an amount determined based on the percentage which the amount of its Demand Deficit is of the total Demand Deficit for all Contracting Agencies. The amount to be paid by each such Contracting Agency shall be determined by multiplying the difference between, the Supplemental Capital Outlay Fund demand and the total amount of the Capital Capacity Reimbursement Account balances of all Contracting Agencies by the percentage thus determined.

G. Audit Process

The audit process for collection of connection fees by Contracting Agencies is intended to verify accuracy and uniformity in practices regionwide and to improve future performance. The audit and BAR review processes may result in IEUA and the Contracting Agencies working collaboratively to reconcile any discrepancies in connection fees from the Residential, or

Commercial or Industrial Unit. Contracting Agencies may be audited by IEUA on an annual basis, as well as periodically through the Building Activity Reports Subcommittee as described below.

H. Building Activity Reports and Building Activity Reports Subcommittee

There shall be created a Building Activity Reports ("BAR") Subcommittee comprised of a staff/employee representative from IEUA and also from of each Contracting Agency who elects to participate. The Contracting Agency representative may be changed by the applicable Contracting Agency at any time. IEUA will convene the BAR Subcommittee quarterly to complete a more extensive review of a percentage of applications for which connection fees have been calculated and collected. The percentage of applications to be reviewed will be determined by the BAR Subcommittee. The review by the BAR Subcommittee may include such reviews as, but not limited to, an in-depth look at the collection fee calculation methodology, approach for calculating connection fees for similar facilities (e.g. - facilities that have an embedded restaurant and other services), monthly sewer fee collections, for region wide consistency.

SECTION 10 - FORECASTING AND PLANNING

A. Contracting Agency Reports

1. Monthly Reports

On such date as IEUA may designate, each Contracting Agency shall submit to IEUA monthly reports of sewered building activity. Each such report shall contain the following information in a format which will allow tracking through the development process:

a. The number of building permits issued during the month for structures which will contribute sewage to the Regional Sewerage System;

b. Estimate volume of sewage and EDUs for such building permits;

c. The tract number and number of lots for each tentative tract map approved during the month;

d. The tract number and number of lots or dwelling units for each final tract map

recorded during the month;

e. The number of final inspections or certificates of occupancy issued during the month for structures which will contribute sewage to the Regional Sewerage System;

f. The estimate volume of sewage and EDUs for all such structures.

B. IEUA Reports

1. Annual Forecast

IEUA shall work collaboratively with the individual Contracting Agencies to ensure they are using the most recent planning and other documents and incorporating agency knowledge about their service area into the Annual Forecast. On a biennial basis, prior to the first regularly scheduled Regional Technical Committee meeting of that calendar year, IEUA shall provide to the Regional Technical Committee and the Regional Policy Committee the Regional Annual Forecast from the Regional Wastewater Demand Forecast Model or other mutually agreed upon forecasting methodology.

2. Ten-Year Sewer Capital Forecast

On a biennial basis, by no later than the end of June, IEUA shall prepare and deliver to the Regional Technical Committee and the Regional Policy Committee a Ten-Year Sewer Capital Forecast which includes dates of commencement and completion of capital improvement projects necessary to enable the Regional Sewerage System to meet the forecasted Capacity Demands of all Contracting Agencies. Such forecasts, hereinafter referred to as the "Ten-Year Sewer Capital Forecast," shall include:

a. Projected dates for the commencement and completion of design and construction of capital improvement projects necessary to meet forecasted Capacity Demands;

b. Estimates for each Regional Treatment Plant of the Capacity Demand of each Contracting Agency which received sewerage service the previous Fiscal

Year;

c. An estimate of the amount of available treatment capacity at the IEUA Regional Treatment Plants;

d. An estimate of the amount of treatment capacity to be added, if any;

e. Projected annual expenditures for the design and construction of such projects;

f. The Demand Deficit, if any, of each Contracting Agency;

C. Review by Regional Committees

1. Annual Forecast

To ensure accurate forecasting, upon receipt of the Regional Annual Forecast, the Regional Committees shall review the proposed Capacity Demands and provide input to IEUA within 30 days regarding anticipated development.

2. Ten-Year Sewer Capital Forecast

Upon receipt of the Ten-Year Sewer Capital Forecast, the Regional Committees will have 30 days to review and provide input and the Forecast will be placed on the agenda of both committees to provide recommendations to IEUA. Prior to adoption, IEUA shall consider the recommendations of the Regional Policy Committee.

D. Reclaimable Industrial Waste

Proposed new industrial connections to Community Sewer Systems which are expected to discharge more than 25,000 gallons per day of reclaimable industrial waste shall be approved based on the conditions set forth in the Ordinance No. 109 and any successors thereof. The determination of permit requirements and discharge limitations of the reclaimable industrial waste to be discharged into the Regional Sewerage System through an appropriate connection point in a Contracting Agency's Community Sewer System shall be made by IEUA through the regional pretreatment program, resolution of the Board of Directors of IEUA, and Ordinance No. 109 and

any successors thereof.

E. Major Construction Contracts

IEUA shall not proceed with the award of a construction contract for a budgeted Regional Sewerage System capital improvement project previously approved through the Ten-Year Sewer Capital Forecast, which will involve an expenditure in excess of $10,000,000 (adjusted every 5 years or as needed based on the Consumer Price Index beginning in the year 2025), without informing and considering recommendations from the Regional Policy Committee unless IEUA determines the project is necessary for the safe and efficient operation of the Regional Sewerage System. The latest Ten-Year Sewer Capital Forecast and any requested project details including funding information shall be made available to assist in the Regional Policy Committee's review.

SECTION 11 - AVAILABILITY OF REGIONAL SYSTEM; IEUA's PEFORMANCE

A. Contracting Agencies

The services and facilities of the Regional Sewerage System shall be available to any property within the IEUA Service Area, subject to such terms and conditions as may be prescribed by a Contracting Agency for connection to its Community Sewer System.

B. Other Sewage Collection Agencies

IEUA shall not make the services and facilities of the Regional Sewerage System available, other than on a temporary, emergency basis, to any sewage collection agency which is not a party to a Service Contract until such agency has entered into a Service Contract per Section 30. Prior to entering into any such Service Contract, IEUA shall present the proposed terms thereof to the Regional Technical Committee and Regional Policy Committee for review and comment. Any Contracting Agency may challenge services offered under this part B by invoking the procedures set forth in Section 26 of this Service Contract.

C. IEUA's Performance

IEUA shall exercise its best effort to implement capital improvement projects necessary to enable the Regional Sewerage System to meet the Forecasted Demands of all Contracting Agencies are planned, designed and constructed in a timely manner and so that the Regional Sewerage System will at all times be able to provide for the Capacity Demands of all Contracting Agencies. The Contracting Agencies recognize that the timing of the planning, design and construction of such capital improvement projects is largely dependent upon the Contracting Agencies making reasonable accurate projections of increased connections to and usage of their Community Sewer Systems.

SECTION 12 - EXTRA-TERRITORIAL SEWER SERVICE

12.1 SERVICE OUTSIDE THE BOUNDARIES OF IEUA SERVICE AREA

A. Upon the Effective Date of this Contract

Any Contracting Agency which, upon the effective date of this contract was furnishing sewer service to any territory outside the boundaries of the IEUA Service Area, may continue to furnish such service and shall be entitled to the services and facilities of the Regional Sewerage System for that purpose. Each Contracting Agency providing sewer service to any such outside territory shall file a map or maps with the secretary of IEUA showing the boundaries of all such territory.

B. After the Effective Date of this Contract

Any Contracting Agency, after the effective date of this contract, may furnish sewer service to additional territory outside the boundaries of the IEUA Service Area. Prior to furnishing such sewer service, the Contracting Agency shall file a written request with IEUA. IEUA may consider the question of authorizing sewer service to the additional territory, subject to the authorization of the Local Agency Formation Commission for San Bernardino County, and the IEUA Board of Directors shall by resolution authorize sewer service to all or any part of the additional territory by the applicant or applicants unless it determines that such service is not in the public interest.

C. Annual Capital Outlay Charge for Territory Outside IEUA and the Service Area

In addition to the payment of service charges, each Contracting Agency providing the services and facilities of the Regional Sewerage System to territory outside the IEUA Service Area shall be obligated to pay IEUA special capital outlay charges for such territory, as provided in subpart C or D of this Section or both such subparts, if both are applicable. Monies received by IEUA in payment of special capital outlay charges shall be deposited or credited to the Regional Wastewater Capital Improvement Fund and utilized, together with all interest earned thereon, solely for the purpose of financing the acquisition, improvement, and expansion of the Regional Sewerage System.

D. Annual Capital Outlay Charge

The Contracting Agency shall annually pay IEUA a special capital outlay charge in an amount equivalent to the amount of the property tax and other revenue which IEUA would have received during the fiscal year if such property were within the IEUA Service Area. Such charge shall be payable by the Contracting Agency during each fiscal year in the amounts and at the times specified by IEUA.

SECTION 13 - DELIVERY POINTS: CONNECTION COSTS

Each Contracting Agency shall deliver sewage from its Community Sewer System into the Regional Sewerage System at such Delivery Points as may, from time to time, be requested by the Contracting Agency and approved by IEUA. The Delivery Point request may be made by the Contracting Agency or on behalf of a third party. In all Delivery Point requests, the Contracting Agency or third party shall pay applicable plan review and hydraulic/load modeling costs for the evaluation of the impact of the Delivery Point to the Regional Sewage System. The Contracting Agency or third party may also be required to submit a resolution confirming the authorization of annexation from the Local Agency Formation Commission for San Bernardino County or a resolution confirming an irrevocable annexation agreement to the Contracting Agency.

Upon consideration of the information submitted, IEUA may authorize the new Delivery Point. IEUA shall provide written notice of its recommendation regarding the new Delivery Point at a regularly scheduled Regional Technical Committee meeting. Upon receipt of a favorable report and recommendation from the committee or upon failure of the committee to respond within a 30-day period, IEUA may authorize the new Delivery Point.

If the Regional Technical Committee recommends against a new Delivery Point for any Contracting Agency, they shall do so in writing including the technical basis for their decision. The Contracting Agency may file a written request for a hearing with the secretary of the Board of Directors of IEUA. Upon receipt of such a request, said Board of Directors shall schedule and conduct a hearing in accordance with the provisions of Section 26 hereof. All costs and expenses of making the connection between the Regional Sewerage System and the Community Sewer System of any Contracting Agency shall be borne by the Contracting Agency and/or third party.

SECTION 14 - DETERMINATION OF SEWAGE DELIVERIES: COSTS OF MEASURING EQUIPMENT

IEUA shall determine the amount of sewage delivered to the Regional Sewerage System by all Contracting Agencies and shall maintain accurate and complete records thereof. The amount of sewage delivered to the Regional Sewerage System by each Contracting Agency shall be determined by IEUA based on a standard daily measurement or contribution per Equivalent Dwelling Unit methodology established by IEUA and the Regional Technical Committee from time to time.

If required by IEUA, a Contracting Agency shall install and maintain and operate at its expense, measuring devices and equipment for measuring the flow of sewage from the Contracting Agency's Community Sewer System into the Regional Sewerage System. Prior to installation, IEUA shall approve the design of such measuring devices and equipment and shall inspect and approve their installation. Such measuring devices and equipment shall be examined, tested and serviced regularly, but not less than once a year, by IEUA to ensure their accuracy. At any time IEUA or any Contracting Agency may inspect any such measuring device and equipment and all records and measurements taken therefrom.

The determination of sewage flow or contribution methodology per Equivalent Dwelling Unit contributed by each Contracting Agency shall be reviewed and updated if needed, or as requested by IEUA, but not less than every ten (10) years.

Once the EDU methodology is updated and adopted, EDU and equivalent EDU determinations will be made with the updated methodology. Adjustments in cost allocations among Contracting Agencies and users among customer classes (i.e.- residential, commercial, and industrial) resulting from the updated methodology and determination shall be implemented in consultation with the BAR Subcommittee.

SECTION 15 - CONTROL, PRODUCTION, AND DISPOSITION OF RECYCLED WATER

A. General

IEUA shall have ownership and control of all sewage delivered into the Regional Sewerage System for the purposes of Transmission, Treatment, and Disposal, and shall retain the exclusive right over the Recycled Water generated from the sewage delivered to IEUA from the Contracting Agencies, having sole discretion over its use, subject only to those contractual rights of the Contracting Agencies described in this Section 15. It is the intent of IEUA that Recycled Water be put to local beneficial use within the IEUA service area and the Chino Basin to the greatest extent practicable and allowed. The contractual right to purchase Recycled Water is established pursuant to this Section 15 while the terms and conditions regulating the sale, delivery, and use of Recycled Water shall be governed by Ordinance No. 112, or any successors thereof.

B. Contractual Right to Purchase Recycled Water

1. Right of First Purchase

Each Contracting Agency shall have the right of first purchase of Recycled Water as provided herein. The purchase of Recycled Water shall be voluntary and determined at the option of the Contracting Agency from year to year. The right of first purchase shall take

priority over any other Recycled Water purchase agreements between IEUA and customers that are not Contracting Agencies.

Each Contracting Agency shall have the right of first purchase from IEUA of Recycled Water in a total quantity not exceeding the base entitlement of the Contracting Agency.

The total base supply of Recycled Water which is subject to the right of first purchase from IEUA by the Contracting Agencies receiving sewerage service at any Regional Treatment Plant shall be the total quantity of sewage delivered into the Regional Sewerage System by all such Contracting Agencies, measured at the intake point of the Regional Treatment Plants, less normal processing losses resulting from the treatment of sewage, and less Recycled Water exported from the Chino Basin by IEUA to satisfy the SAR Base Flow Obligation if and to the extent deemed necessary by IEUA.

Each Contracting Agency shall have a monthly base entitlement to a portion of the total base supply of Recycled Water, said portion being in the proportion that the quantity of sewage delivered into the Regional Sewerage System by the Contracting Agency bears to the total quantity of sewage delivered into the Regional Sewerage System by all Contracting Agencies.

The Contracting Agencies have expressed a desire to achieve equitable distribution of Recycled Water deliveries, especially during periods of high demand. Each Contracting Agency shall manage its Recycled Water usage responsibly during periods of high demand so as not to impede other Contracting Agencies from utilizing all their base entitlement, and to prevent Contracting Agencies from using Recycled Water in excess of their base entitlement as calculated on a monthly basis. Recycled Water demands in excess of a Contracting Agency's monthly base entitlement shall not be allowed if it inhibits another Contracting Agency from developing a new Recycled Water use project that would be within their monthly base entitlement. Following the execution of this contract by all Parties, the Regional Technical and Policy Committees will develop an Exhibit "A", Peak Flow Monitoring and Enforcement Criteria, to be incorporated into this contract, that will

detail the requirements for meeting base entitlement as calculated on a monthly basis. Authorization of this Exhibit "A" will not require re-authorization of this contract through the Parties. Exhibit "A" shall become an authorized Exhibit of this contract by a two-thirds majority vote of the Regional Policy Committee and approval by the IEUA Board of Directors.

2. SAR Base Flow Obligation.

The Parties have differing views regarding the SAR Base Flow Obligation including, but not limited to the allocation of the obligation and the method and way the obligation is fulfilled. Historically there have been sufficient flows from IEUA Regional Treatment Plant discharges to satisfy base entitlement claims and satisfy the SAR Base Flow Obligation with Recycled Water and it is believed that such condition will continue for the next several years at a minimum. Although alternative sources of water for meeting the SAR Base Flow Obligation are not precluded, IEUA will continue its current practice of fulfilling the SAR Base Flow Obligation using Recycled Water from IEUA Regional Treatment Plants in conformity with established practice since inception of the Orange County Judgment, until an alternative acceptable to IEUA is determined. This topic will be reconsidered at the ten-year review provided for in Section 28 of this contract, or earlier upon unanimous consent of the Parties.

IEUA, within its discretion, may prioritize the usage of Recycled Water for meeting the SAR Base Flow Obligation when it is necessary to do so regardless of the effect on base supply for purchase. If the SAR Base Flow Obligation is not met in a given year, IEUA will determine the best course of action to satisfy the SAR Base Flow Obligation the following year, which may include reducing the available base supply. IEUA will satisfy the SAR Base Flow Obligation with the most cost-effective or practical source of water available and seek alternative means of satisfying the SAR Base Flow Obligation in order to maximize available local supplies.

3. Surplus Base Supply.

Surplus base supply is that portion of base supply remaining after each Contracting Agency has exercised its right of first purchase to purchase its base entitlement, or portion thereof.

During and following the end of each year IEUA shall determine the amount of surplus base supply available, if any, for purchase by Contracting Agencies, and shall notify all Contracting Agencies of that amount, in writing. Each Contracting Agency shall have the option to purchase surplus base supply in an amount calculated utilizing the same ratio used to calculate base entitlement. However, if after offering surplus base supply to all Contracting Agencies there remains surplus base supply, then a Contracting Agency may purchase from the remaining surplus base supply in an unrestricted amount subject to mutual agreement with IEUA. Nothing herein shall prevent Contracting Agencies from establishing agreements to purchase Recycled Water from other Contracting Agencies. The purchase of Recycled Water in excess of a Contracting Agency's base entitlement in any given year shall not result in an increase in base entitlement for subsequent years.

4. Disposition by IEUA of Unclaimed Recycled Water.

To the extent that any of the Contracting Agencies fail to exercise their respective rights of first purchase of Recycled Water, IEUA may make any lawful use of such Recycled Water, including beneficial use, sale, or other disposition inside or outside the Chino Basin; provided, that, any funds generated by the sale of Recycled Water shall be deposited into the IEUA Recycled Water Fund. IEUA will inform the Contracting Agencies of the use or sale of any unclaimed Recycled Water within 30 days of the transaction.

SECTION 16 - RESERVED

SECTION 17 - SERVICE CHARGES FOR MAINTENANCE AND OPERATION OF THE REGIONAL SEWERAGE SYSTEM

All Contracting Agencies shall pay service charges for all sewage delivered to the Regional Sewerage System. Each Contracting Agency shall pay its pro rata share of all net audited costs incurred by IEUA in the maintenance and operations of the system. Net audited costs consist of:

A. Maintenance and Operation

Costs of maintenance and operation of all transmission and treatment facilities comprising the Regional Sewerage System; and

B. Other Costs

Any other costs reasonably related to the maintenance and operation of the system; and

C. Replacement and Unforeseen Costs

Based upon generally accepted engineering and accounting principles, reasonable reserves for the estimated costs and expenses of:

1. Replacement of any facilities where the costs and expenses of replacement are customarily considered a part of the costs and expenses of extraordinary maintenance which adds to the normal service life of facilities; and
2. Unforeseen contingencies; and
3. Actual costs and expenses incurred by IEUA for the Transmission, Treatment and Disposal of any byproduct resulting from the treatment of the Sewage delivered by a Contracting Agency.

D. Cost Of Service Study ("COSS")

IEUA may, from time to time, conduct a COSS which shall be conducted in accordance with procedures normally utilized in the public rate setting process and in accordance with applicable law.

E. Proposed Service Charge Rate Adjustment ("Adjustment")

Prior to the imposition of a rate adjustment, IEUA shall conduct a rate workshop wherein Contracting Agencies may express comments and feedback on the matter for consideration by IEUA. Rate adjustments for each fiscal year shall be within the discretion of the IEUA Board of Directors and shall conform to the COSS and applicable law.

SECTION 18 - RESERVED

SECTION 19 - REGIONAL SEWERAGE SYSTEM BUDGETS

A. Fiscal Year Budgets

For each fiscal year, or on a biennial basis if utilized by IEUA, the IEUA Board of Directors shall cause to be prepared and shall adopt a budget, which includes the Regional Sewerage System budget.

B. Form and Content of Budgets

The budget shall contain a plan of financial operations for the Regional Sewerage System and shall contain an estimate of the requirements for expenditures, including provisions for any reserves, and the means of financing such requirements. The budget shall be itemized and shall show in reasonable detail the nature and purpose of each item of revenue and expense and the actual or estimated amount thereof. The budget shall include a plan of financial operations for the capital costs of the acquisition and construction of the Regional Sewerage System, and a plan of financial operation for the maintenance and operation of the system, prepared as follows:

1. Capital Improvement Fund Budget. The costs of the acquisition and construction of the Regional Sewerage System shall show:

    a. The various items and amounts of capital costs and the total thereof;

    b. The total amount in the Regional Wastewater Capital Improvement Fund and the available and unencumbered balance of such fund as of the commencement of the fiscal year and an estimate of the amount therein and the unencumbered balance thereof as of the end of the fiscal year;

    c. The amounts, if any, of IEUA revenues from sources other than property taxes which are or will be available for payment of capital costs and the total thereof;

    d. The estimated amount of property taxes to be received during the fiscal year;

    e. The projected amount of Supplemental Capital Outlay Fund contributions

required from each Contracting Agency during the fiscal year and the total thereof.

2. Maintenance and Operations Fund Budget. The part covering the maintenance and operation of the Regional Sewerage System shall show:

   a. The various items and amounts of maintenance and operation expenses, including replacement and rehabilitation, and the total thereof;

   b. The total amount in any reserves theretofore established, and the available and unencumbered balance in such reserves as of the commencement and end of the fiscal year;

   c. The amount of service charges payable by each Contracting Agency and the total paid or payable by all Contracting Agencies;

   d. The amounts, if any, of revenue from sources other than services charges which will be available for payment of maintenance and operation expenses and the total thereof;

   e. The total amount required to be raised from service charges for payment of maintenance and operations expenses;

   f. The rate of the service charge for the fiscal year(s);

   g. The amount of any surplus of service charges received by IEUA during the fiscal year preceding the fiscal year in progress in excess of the cost of maintenance and operation of the Regional Sewerage System for that year which was transferred to the Regional Sewerage System Operation and Maintenance Fund reserve for replacement of Regional Sewerage System facilities for such preceding fiscal year, or the amount, if any, of any shortage in the amount of service charges received by IEUA during such preceding fiscal year less than the cost of maintenance and operation of the Regional Sewerage System for that year which was transferred from said reserve during the year then in progress for such preceding fiscal year;

C. Preparation and Approval of Proposed Budgets

Not later than April 1 of each budgeting year, the IEUA Board of Directors shall direct its General Manager, or such other person or persons as the Board may designate, to prepare and submit to the Board a proposed Regional Sewerage System budget for the next fiscal year(s). IEUA will conduct informational sessions with the Regional Technical and Policy Committees to inform the Committees of the proposed Regional Sewerage System budget and provide the Committees with opportunities for input. Said budget and the rate of service charge for the next fiscal year will be considered and adopted by IEUA no later than June 30 of each fiscal year. If the Board of Directors fails to adopt a budget by June 30 then, until such time as the Board shall adopt such budget, the budget last adopted shall constitute the budget for such fiscal year.

D. Adoption of Separate Budgets

Notwithstanding the preceding provisions of this section, the Board of Directors of IEUA may elect for any fiscal year to separately prepare and adopt a Capital Improvement Fund Budget and a Maintenance and Operation Fund Budget. If said Board elects to so proceed, each such separate budget shall be prepared in accordance with the provisions of this section which are applicable thereto. Both said budgets shall be processed and adopted in accordance with the procedures and pursuant to the time schedule set forth in this section.

SECTION 20 - BILLING AND PAYMENT OF SERVICE CHARGES

A. Monthly Billing Statements of Service Charges

Not later than 20 days after the end of each month, each Contracting Agency shall provide to IEUA a report with the number of billable Equivalent Dwelling Units billable to each Contracting Agency. IEUA shall provide a billing statement of service charges to each Contracting Agency, setting forth the number of billable Equivalent Dwelling Units during such month for the service charge rate applicable thereto and the total service charge due and payable to IEUA for said month. Monthly service charges shall be based on the service charge rate adopted by the IEUA Board.

B. Payment of Statements; Interest on Overdue Payments

Each Contracting Agency shall pay the amount of the service charge set forth in any statement on or prior to its due date, namely, the thirtieth day following the date of the delivery of such statement. In the event that a Contracting Agency is delinquent in payment of bills for service charges, a penalty of ten (10) percent of the original unpaid invoice amount shall be added to any fee or charge that becomes delinquent. Interest at the maximum rate provided by California Government Code Section 926.10 as may be amended from time to time, shall accrue on the total of all delinquent fees or charges.

Additional charges provided herein for delinquent payments may be waived by the Board of Directors upon written request by the IEUA Customer upon a finding that the delinquency was caused by excusable neglect or circumstances beyond the control of the Contracting Agency, provided that the delinquent Contracting Agency reimburses IEUA for all costs and penalties actually incurred by IEUA as a result of the delinquent payment.

Interest paid upon any delinquent amount shall be credited to the Regional Sewerage System Maintenance and Operation Fund unless, by reason of such delinquency, IEUA shall have advanced the amount of the delinquency from other sources, in which case, the interest shall be credited to such fund as the IEUA Board of Directors may designate. A Contracting Agency shall not be entitled to withhold payment, in whole or in part, of the amount of any statement for service charges pending action pursuant to part C of this Section 20.

C. Adjustment for Overpayment or Underpayment

Upon disagreement between any Contracting Agency and IEUA over the amount of service charges or the discovery of an error in computation of service charges for a Contracting Agency, which is not resolved within 30 days of communication, IEUA shall request a recommendation from the Regional Technical committee. The IEUA Board of Directors shall consider the recommendation by the Regional Technical Committee and make its determination on service

charge adjustments, due dates and any interest due, and shall provide for the appropriate credit to or debit of any affected Contracting Agency's service charge account.

D. Deposit of Payments in Maintenance and Operation Fund

All monies received by IEUA in payment of service charges shall be deposited in and credited to a separate fund or account in the treasury of IEUA, to be known as the "Regional Sewerage System Maintenance and Operation Fund." All monies in said fund and interest earned thereon shall be used and expended only for payment of maintenance and operation expenses paid or incurred by IEUA under the provisions, of this contract.

SECTION 21 - RESERVED

SECTION 22 - RESERVED

SECTION 23 - GRANTS AND FINANCIAL ASSISTANCE

IEUA and the Contracting Agencies shall exercise their best efforts to obtain the maximum amounts of grants and other financial assistance which may be available from any federal, state, local, or other source for defraying all or any part of the capital costs and the maintenance and operation expenses of the Regional Sewerage System. The General Manager of IEUA, the Regional Policy Committee, and the Regional Technical Committee shall keep each other fully informed of any available grant or other financial assistance programs known to any of them.

In addition, IEUA shall on a semi-annual basis, submit a report to the Regional Technical Committee and the Regional Policy Committee, as an information item, on any proposed or pending applications (which may include updates on negotiation status) for grants or other financial assistance.

IEUA's costs for the acquisition, construction, maintenance, or operation of the Regional Sewerage System shall be reduced by amounts of any grants or other non-repayable financial assistance received therefor by IEUA from the federal or state government.

SECTION 24 - REGIONAL POLICY COMMITTEE

The parties desire to provide for a Regional Policy Committee to advise IEUA of the needs and views of the Contracting Agencies concerning IEUA's policies and activities in the financing, acquisition, construction, maintenance and operation of the Regional Sewerage System, to make reports and recommendations with respect thereto, and to inform the Contracting Agencies concerning such policies and activities. Committee membership shall be voluntary.

Each participating Contracting Agency shall appoint one regular member and one alternate member to the Regional Policy Committee. Such members shall be members of the Contracting Agency's governing body. The regular and alternate members so appointed shall serve at the pleasure of the appointing agency. Each participating Contracting Agency shall give the secretary of IEUA immediate notice of all appointments and removals made by it, and of the name and contact information of each appointee. IEUA shall appoint one regular member and one or more alternates to the Regional Policy Committee. The members so appointed shall be members of the IEUA Board of Directors of IEUA and shall serve at the pleasure of IEUA. The IEUA member shall be entitled to participate at all regular and special meetings of the committee.

The Regional Policy Committee shall be chaired by a regular member of the Regional Policy Committee and shall rotate among its regular members on a biennial basis through all the Contracting Agencies. A Vice Chair shall also be designated to act in the Chair's absence. The Vice Chair shall be selected by a majority vote of the regular members. A quorum made up of a majority of members shall be required to conduct business.

Each regular member of the Regional Policy Committee or the Contracting Agency's alternates, shall have one vote. A majority of members voting shall be required to carry any matter before the committee.

The Regional Policy Committee shall hold a regular meeting quarterly or as needed in the determination of IEUA. The Regional Policy Committee may adopt such procedures and rules as it deems advisable concerning its officers, meetings and the manner and method of making its

reviews, reports and recommendations on any matter affecting the acquisition, construction, maintenance and operation of the Regional Sewerage System.

IEUA shall, if requested by the Regional Policy Committee, provide the Regional Policy Committee with a meeting place and with the services, advice, and assistance of members of its staff. All records, reports, and other information of IEUA pertaining to the financing, acquisition, construction, maintenance and operation of the Regional Sewerage System shall be available for inspection by members of the Regional Policy Committee. IEUA agrees to maintain and make available to the Regional Policy Committee accurate records of all of its costs, disbursements, and receipts with respect to activities under this contract.

SECTION 25 - REGIONAL TECHNICAL COMMITTEE

The parties desire to provide for a Regional Technical Committee to advise the Regional Policy Committee on technical matters related to the Regional Sewerage System. Participation shall be voluntary. The members and alternate members of the Regional Technical Committee shall be appointed by their respective Contracting Agencies and IEUA shall be entitled to appoint one member and alternate members with the same right of participation as other members. The committee shall hold regular meetings quarterly or as needed in the determination of IEUA. Appointments and the number of alternates shall be determined in the sole discretion of each Contracting Agency and IEUA as applicable.

The committee may, and upon request by the Regional Policy Committee or IEUA shall, review and make recommendations concerning any of the following technical matters: the acquisition, design, construction, maintenance, operation, or financing of sewer facilities, sewage treatment, reclamation, or disposal facilities, sewage and effluent measuring devices and equipment, Community Sewer Systems and the Regional Sewerage System; sewer user charges; service charges; quality standards for sewage and any effluent; and any other technical matter related to any of the foregoing.

SECTION 26 - DISPUTE RESOLUTION

Members of the Regional Policy Committee are encouraged to raise pertinent issues concerning the Regional Sewerage Contract with the IEUA Board of Directors during the public comment period of a regularly scheduled meeting of the Board. To the extent that any provision of this contract authorizes a hearing under this Section 26, the following procedures will apply:

A. Notice of Dispute.

The Regional Policy Committee, through a majority vote of its members, may request a hearing before the IEUA Board of Directors on any dispute related to the IEUA's performance of this Contract or where the Contract authorizes a hearing by submitting a request in writing to the General Manager of IEUA, with the date of delivery of such request deemed the submission date. The request shall state the issue in dispute and a brief explanation of the Regional Policy Committee position on the matter.

B. Notice of Hearing.

Within 30 days of the submission date IEUA shall schedule a hearing to consider the matter. IEUA shall send written notice to all Contracting Agencies by First Class Mail and shall be deemed to have been given when so deposited in the United States Mail, postage prepaid. The notice shall set forth the date, time and location for the hearing. The hearing shall be conducted in conjunction with a special or regularly scheduled meeting of the IEUA Board of Directors and shall be published in conformity with Brown Act requirements. The hearing shall be scheduled on a date not more than 60 days from the submission date.

C. Hearing.

Any person may address the IEUA Board of Directors at the hearing. Any documentary evidence to be introduced by a party must be submitted to the Secretary of the IEUA Board of Directors no later than 10 days prior to the hearing date to ensure the documents are included in the agenda package and available for posting to the IEUA website.

D. Continuance.

The IEUA Board of Directors may, within its discretion, continue the hearing at the request of any person or the Board of Directors upon a showing of good cause, but in no event shall such continuance extend beyond 30 days.

E. Decision.

At the close of the hearing, the IEUA Board of Directors may confer and render a decision through a majority vote of its members, which shall be recorded upon the minutes of the meeting. The decision by the IEUA Board of Directors shall be deemed a final administrative action. The IEUA Board of Directors may continue the matter for up to 60 days for further discussion and consideration of the evidence.

SECTION 27 - EFFECTIVE DATE OF CONTRACT

This contract between IEUA and the undersigned Contracting Agency shall become effective ("Effective Date") after the occurrence of both of the following events:

1. The authorization and execution of this contract by IEUA and the undersigned Contracting Agencies.
2. IEUA shall give written notice thereof to the undersigned Contracting Agency. The notice shall specify a date, as determined by IEUA in accordance with this section, which shall be the Effective Date of this contract.

SECTION 28 - TERM OF CONTRACT

The term of this contract and any other Service Contract entered into between IEUA and any sewage collection agency, shall be 50 years from the Effective Date. It is the intent of the parties that all Service Contracts providing for the services and facilities of the Regional Sewerage System

shall have the same termination, date, without regard to the effective dates of the individual, contracts.

In order to provide for a periodic review and update, as necessary, of the provisions of this contract, IEUA and the Contracting Agencies agree to enter good faith discussions at intervals not exceeding ten years or at the request of the majority of the Contracting Agencies.

SECTION 29 - RENEWAL

No later than two years prior to the end of the term of this contract or any earlier termination or extension of this contract, the parties shall negotiate for the extension or renewal of this contract upon comparable terms and conditions. If the parties have been unable to agree thereon, then any Contracting Agency, by written notice given to IEUA at least 12 months prior to the expiration of said term, may elect to receive continued sewage treatment service after the expiration of said term, on a temporary basis, through separate agreement, upon the following conditions:

A. Expansion.

If, by reason of continued service, no expansion is required in any facilities of the Regional Sewerage System in existence upon the expiration of the term of this contract, the Contracting Agency may deliver sewage into the system in any quantity and at any flow rates. If, by reason of continued service, such expansion shall be required, the annual quantity and flow rates of sewage to be delivered into the Regional Sewerage System by the Contracting Agency shall not exceed the quantity and flow rates delivered by the agency during the last full fiscal year preceding the expiration of said term.

B. Service Charge.

The service charge rate shall be determined as provided in Section 17 hereof.

C. Quality.

The sewage quality standards shall be in accordance with those in effect during the last full fiscal year preceding the expiration of said term or any higher standards prescribed by any federal, state or regional agency authorized by law to prescribe quality standards for effluent discharges.

D. Physical Conditions.

IEUA shall maintain and operate the Regional Sewerage System under substantially the same physical conditions of service as prevailed during the last fiscal year preceding the expiration of said term.

Other terms and conditions of continued service shall be reasonable and equitable and shall be mutually agreed upon and, if they provide for continued service for a specified number of years, a Contracting Agency shall have the option to receive further continued sewage treatment service upon the expiration of that and each succeeding period of continued service. Nothing herein shall extend the term established in Section 28 of this contract.

SECTION 30 - AUTHORIZATION AND EXECUTION OF SEWAGE SERVICE CONTRACT

A. Authorization of Any Sewage Collection Agency.

All proposed contracts between IEUA and any sewage collection agency for the purpose of, (i) providing the agency with the services and facilities of the Regional Sewerage System under a Service Contract, (ii) the acquisition by IEUA of any existing sewage treatment and disposal plant or interceptor sewer, or (iii), both (i) and (ii), shall be authorized for execution by IEUA. The agency shall furnish IEUA with a certified copy of the resolution authorizing execution by the agency, together with a certified Copy of the proposed contract referred to therein. The resolution shall contain all restrictions, limitations, and conditions, if any, which may have been imposed on the execution of the contract.

B. Amendment of Any Existing Contract; New Contracts with Subsequent Contracting Agencies

If IEUA proposes (i) to amend or rescind any existing Service Contract with a Contracting Agency or (ii) to enter a new Service Contract or a contract for the transfer of any existing sewage facilities to IEUA, as part of the Regional Sewerage System, the IEUA Board of Directors shall adopt a resolution declaring its intention to do so and shall specify a time, not sooner than 60 days after the adoption of the resolution, and a place at which the Board will hold a hearing on the question of the proposed amendment, rescission or new contract, as the case may be. Immediately thereafter the secretary of IEUA shall deliver a copy of the resolution, together with a copy of the proposed amendment, rescission or new contract to the clerk or secretary of each Contracting Agency and to each member of the Regional Policy Committee. The Regional Policy Committee shall review the proposal and, not later than 10 days preceding the date of the hearing, shall submit its written report and recommendation thereon to the general manager of IEUA and to each Contracting Agency.

At the hearing on the proposal, the IEUA Board shall consider the report and recommendation of the Regional Policy Committee and shall hear representatives of any Contracting Agency, members of the committee, and any other interested persons. The IEUA Board may modify the proposal and, upon the conclusion of the hearing, order the authorization for execution by IEUA of the proposed amendment, rescission, or new contract, as the case may be.

Notwithstanding the above, except in regard to amendments authorized by IEUA for administrative implementation of an existing Service Contract, any material amendments, such as, for example, the Contractual Right to Purchase Recycled Water under Section 15.B, must also be authorized by Contracting Agencies and agreed to in writing and executed prior to going into effect. Said authorization by Contracting Agencies shall not be unreasonably withheld.

C. Revisions Due to Result of Litigation

The parties acknowledge that as of the Effective Date, there may be one or more Contracting Agencies that do not plan to execute this contract, but rather, have filed, or plan to file, litigation relation to the Contract ("Protesting Agency(ies)". In the event such litigation results in new or revised provisions being included in the Service Contracts between IEUA and Protesting Agencies, the other Contracting Agencies may, in their discretion, elect to revise their Service Contracts to have said new or revised provisions included in their Service Contracts as well.

SECTION 31 - NOTICE

Notices authorized or required to be given by any provision of this contract shall be deemed to have been given upon delivery, if delivered personally, or upon deposit in the mail, if enclosed in a properly addressed envelope and deposited in the United States mail for delivery by registered or certified mail, or delivered via electronic mail.

Notice shall be given to the parties by delivery or mailing to the following officers of the parties at the following addresses:

IEUA

_____

_____

Undersigned Contracting Agency:

_____

_____

At any time, a party may give written notice to the other party of a change in the designated officer or address.

Notice to members of the Regional Policy Committee or the Regional Technical Committee shall be given to the persons and at the addresses designated in the notices of appointment filed with the Secretary of IEUA.

SECTION 32 - PARTIAL INVALIDITY

The invalidity of any provision of this contract shall not affect the validity of the remainder thereof which can be given effect without such invalid provision.

SECTION 33 - INCORPORATION OF RECITALS

The Recitals set forth above are incorporated herein and made an operative part of this Service Contract.

SECTION 34 - COUNTERPARTS

This Service Contract shall be executed by all parties in duplicate originals, each of which shall be considered an original Service Contract.

Date of Execution

November 1, 2023

Inland Empire Utilities Agency

President of the Board of Directors

ATTEST:

Joanna A. Hall

Secretary of the Board of Directors

_____

_____
Mayor

ATTEST:

_____
City Clerk

Date of Execution

City of Chino Hills

_____

_____
Mayor

ATTEST:

_____
City Clerk

Date of Execution

Cucamonga Valley Water District

_____

_____
Board President

ATTEST:

_____
Secretary of the Board of Directors

Date of Execution

City of Fontana

_____ _____

Mayor

ATTEST:

_____

City Clerk

Date of Execution **City of Montclair**

_____ _____

Mayor

ATTEST:

_____

City Clerk

Date of Execution **City of Ontario**

_____ _____

Mayor

ATTEST:

_____

City Clerk

Date of Execution **City of Upland**

_____ _____

Mayor

ATTEST:

_____

City Clerk

Date of Execution

_____

ATTEST:

_____
City Clerk

City of Chino

_____
Mayor

Date of Execution

_____

ATTEST:

_____
City Clerk

City of Chino Hills

_____
Mayor

Date of Execution

September 26, 2023

ATTEST:

_____
Secretary of the Board of Directors

Cucamonga Valley Water District

_____
Board President

Date of Execution

_____

City of Ontario

_____
Mayor

ATTEST:

_____
City Clerk

Date of Execution

9/26/23

City of Upland

Bill Velto
Mayor

ATTEST:

_____
City Clerk

Date of Execution

_____

City of Chino

_____
Mayor

ATTEST:

_____
City Clerk

Date of Execution

3/8/2024

City of Chino Hills

Cynthia Moran
Mayor

ATTEST:

_____
City Clerk

Date of Execution

_____

Cucamonga Valley Water District

_____
Board President

ATTEST:

_____
Secretary of the Board of Directors

(Adopted 4/12/84)
(Amended 12/7/94)
(Amended 3/2/05)
(Amended 6/19/13)

EXHIBIT "J"

EQUIVALENT DWELLING UNIT COMPUTATIONS

GENERAL

Equivalent Dwelling Unit (EDU) is a numerical value designation where one EDU represents the sewage flow from a single family residential household. For the purposes of computing uniform financial obligations for each Contracting Agency using the Regional Sewerage System, the following computations shall be used to determine EDU's for residential, commercial, and industrial units:

1. Residential. Each structure or part of a structure which is designed for the purpose of providing permanent housing for one family or tenant shall be one EDU. This includes, but is not limited to, a single family detached residence, an apartment, a townhouse, a condominium, a mobile home or trailer space.

2. Commercial. All structures designed for the purpose of providing permanent housing for enterprises engaged in exchange of goods and services. This shall include, but not be limited to, all private business and service establishments, schools, churches, and public facilities. EDU's shall be determined by multiplying the fixture units (as defined by Table 1) shown on the approved building plans, by the appropriate sewage factor from the following Table 2 (also see Note A). Total EDU's for commercial centers for various use categories will be the sum of the EDU's computed for each category of use. For example, hotel complexes that contain restaurants, pools, health clubs, or

laundry facilities should be calculated based on the individual uses in the hotel complex with the fee based on the sum of the EDU's computed for each category of use.

3. Industrial. All structures designed for the purpose of providing permanent housing for an enterprise engaged in the production, manufacturing, or processing of material. EDU's for industrial users shall be determined as follows:

a. For domestic type wastewater, multiply the fixture units (as defined by Table 1) shown on the approved building plans by a sewage factor of 0.0741, based on a 20 gallons per fixture unit flow per day.

b. For non-domestic wastewater; compute from information contained on the industrial waste permit, using the following formula:

$$\text{EDU} = \frac{\textit{Estimated non-domestic flow}}{270} \left[.37 + .31 \frac{BOD}{230} + .32 \frac{SS}{220} \right]$$

c. Combine the resultant EDU's derived from a and b above.

NOTES:

A. Sewage Factor is derived from the formula

$$SF = K\left[.37 + .31\ \frac{BOD}{230} + .32\ \frac{SS}{220}\right]$$

Where: SF = Sewage Factor

K = Gallons per fixture unit divided by the average domestic household flow of 270 gallons

BOD = Biochemical Oxygen Demand

SS = Suspended solids

B. Reimbursement Fees to be levied on Pre-1979 Structures Connecting to the Regional System

For residential structures with a building permit issued prior to July 1, 1979, no Capital Capacity Reimbursement Account (CCRA) fees will be levied at the time of connection to the regional system. If the original permit was issued after 7/1/79, then the CCRA fees established at the time of permit issuance will apply.

The CCRA fees will apply to all commercial and industrial development regardless of when the structure was constructed. When a non-residential use requests to connect to the regional system or modify its use if already connected, the CCRA fee should be based on the current fee in effect at the time the connection or modified use is made (also see Note C).

C. Reimbursement Fees to be Levied on Existing System Users Who Expand or Revise Use

In some situations existing commercial and industrial users will expand uses to meet increasing demands. As a result, additional fixture units will usually be included within the expanded facility. Under these situations the following criteria will apply:

a. CCRA fees will only be levied on the fixture unit (FU) count difference between existing FU's and new FU's.
b. The CCRA fee will be determined based on the fee in effect at the time of building or sewer permit issuance for the expanding development.
c. A change in use, placing a commercial development in a different Exhibit "J" category, will not result in the recalculation of CCRA obligation for

the existing FU's. Only the new added FU's will be levied CCRA fees based on the Exhibit "J" category which best defines the proposed use.

D. Collection and Reporting of CCRA Fees

a. CCRA fees shall be reported at no later than at the time of occupancy.
b. CCRA fees shall be based on the EDU rate (as established by the EDU resolution adopted by the IEUA Board of Directors) in effect at the time of payment. For example, if CCRA fees are reported in the July report, any connection fees changes effective July 1, would be in effect.

E. Attachment of Sewer Use Rights; Tied to Property or Structure

Under certain situations an existing discharger may want to relocate or renovate a business. The issue may then arise as to ownership of certain existing discharge rights in the regional system.

All sewer capacity remains with the existing building and should be sold to building owners rather than tenants.

In cases where an existing building is completely demolished, the transfer or reuse of capacity rights can be permitted provided that:

a. Proof of building demolition can be documented;

b. Payment for original system capacity can be documented;

c. The demolition occurs simultaneously with the transfer; and

d. The transfer occurs within the Contracting Agency who originally sold the capacity.

Capacity rights would be determined based on fixture unit counts and the Exhibit "J" use category of the demolished structure. Because local collection systems may also be impacted by a relocation, this exception shall be at the sole discretion of the contracting agency who is accepting the relocated capacity.

Any additional EDUs required shall be purchased per Note C of this Exhibit.

TABLE 1 - Fixture Unit (FU) Values[1,2]

Appliances, Appurtenances or Fixtures	Fixture Units
Bathtub or Combination Bath/Shower	2.0
Clothes Washer, domestic, standpipe	3.0
High Efficiency Clothes Washer	2.0
Dental Unit, cuspidor	1.0
Dishwasher with independent drain	2.0
Drinking Fountain or Water Cooler	0.5
Food Waste Grinder (Commercial)	3.0
Floor Drain, Emergency	0.0
Floor Drain	2.0
Shower, single-head trap	2.0
Multi-head, each additional	1.0
Lavatory, single	1.0
Lavatory, In sets of two or three	2.0
Washfountain (1.5-in Minimum Fixture Branch Size)	2.0
Washfountain (2-in Minimum Fixture Branch Size)	3.0
Receptor, indirect waste[3]	
Bar	2.0
Clinical	6.0
Commercial with food waste (1.5-in Minimum Fixture Branch Size)	3.0
Commercial with food waste (2-in Minimum Fixture Branch Size)	4.0
Commercial with food waste (3-in Minimum Fixture Branch Size)	6.0
Kitchen, domestic (with or without food-waste grinder and/or dishwasher)	2.0
Laundry (with or without discharge from a clothes washer)	2.0
Service or Mop Basin	3.0
Service, flushing rim	6.0
Wash, each set of facets	2.0
Urinal	2.0
Waterless Urinal	1.0
Water Closet, 1.6 GPF	4.0
Water Closet, greater than 1.6 GPF	6.0

TABLE 1(a) – Discharge Capacity in Gallons per Minute for Intermittent Flow Only[1,3]

Gallons per Minute	Fixture Units
Up to 7.5	1
Greater than 7.5 to 15	2
Greater than 15 to 30	4
Greater than 30 to 50	6

TABLE 1(b) - Maximum Fixture Units for a Trap and Trap Arm[1,3]

Size of Trap and Trap Arm (inches)	Fixture Units
1.25	1
1.5	3
2	4
3	6
4	8

Footnotes:

1. Tables 1, 1(a), 1(b) are based on the 2010 California Plumbing Code
2. Additional information regarding definitions and plan checking are defined by latest Exhibit J - Table 1 Guideline.
3. Indirect waste receptors shall be sized based on the total drainage capacity of the fixtures that drain therein to, in accordance with Table 1(a). Maximum fixture units for a fixture trap and trap arm loadings for sizes up to 4 inches shall be in accordance with Table 1(b).

TABLE 2[1]

Category	Type of Commercial	Typical Descriptions of Establishment	Gal/ Fixture	BOD/TSS	Sewage Factor (see Note A)
I	Motel/ Hotel	Establishment typically engaged in short-term lodging and may offer food and beverage, recreation, conference/convention room, laundry, and parking services.	12	230/220	0.0444
	Recreation/Amusement	Recreational and amusement services and attractions			
	Restaurant (Fast Food)	Establishments where patrons order or select items and typically pay before eating. Serves food on trays with disposable dishware, has an available drive-thru service, and does not use a dishwasher.			
	Retail Store	Establishment typically engaged in providing retail goods for purchase			
	Office	Establishment where business or services are supplied.			
	Market (without Butcher Shop)	Establishments typically retailing a general line of food, such as canned and frozen foods, fresh fruits and vegetables. Establishment does not process (cut) meat, poultry, or seafood.			
	Bar/Tavern	Establishment typically engaged in preparing and serving alcohol beverages for immediate consumption. May also provide limited food services.			

Category	Type of Commercial	Typical Descriptions of Establishment	Gal/ Fixture	BOD/TSS	Sewage Factor (see Note A)
II	Market (with Butcher Shop)	Establishments typically retailing a general line of food, such as canned and frozen foods, fresh fruits and vegetables. Establishment does process (cut) meat, poultry, or seafood.	24	250/350	0.1081
	Bakery	Establishment typically manufacturing fresh and frozen bread and bread-type roll products, cookies, crackers, doughnuts, pastries, pies, ice cream cones, and etc. May include commercial and storefront bakeries.			
	Mortuary	Establishments typically preparing the dead for burial or internment and conducting funerals. May include crematories.			
III	Convalescent Home	Establishments providing inpatient nursing and rehabilitative serves. The care is typically provided for an extended period of time to individuals requiring nursing care. May include nursing homes, Inpatient care hospices, rest homes with nursing care, etc.	42	250/300	0.1780
	Hospital	Establishments typically known and licensed as general medical and surgical hospitals primarily engaged in providing diagnostic and medical treatment to inpatients with any wide variety of medical conditions.			
	Health Spa with Pool	Establishments typically operating fitness and recreation sports facilities featuring exercise and other active physical conditioning. Must have a pool. May include physical fitness centers with pools, gyms with pools, day spas with pools, etc.			
	Restaurant (Full Service)	Establishments typically providing food services where patrons order and are served while seated and typically pay after eating. May serve food on non-disposable dishware, operates dishwashing equipment, has waiter/waitresses and includes buffets.			

Category	Type of Commercial	Typical Descriptions of Establishment	Gal/ Fixture	BOD/TSS	Sewage Factor (see Note A)
IV	Laundry (Laundromat)	Establishment typically operating coin-operated or similar self-service laundry equipment for customer use on premises. Laundries or Laundromats classified under this category are for non-water efficient washing machines.	43	350/500	0.2499
	Dry Cleaner (Processor)	Establishment typically engaged in laundering services, and specialty cleaning services for garments and other textile items on the premises using solvents other than water. Drop off and pickup sites that do not perform cleaning services are classified under Category I.			
V	Car Wash (Coin Operated) (See Footnote 1)	Establishments typically engaged in the cleaning and/or washing of automotive vehicles. Consists power washing spray wand car washes.	102	150/500	0.4910
VI	Church	Establishments typically engaged in operating religious organizations. May include monasteries, temples, mosques, synagogues, places of worship.	17	230/220	0.0630
	School	Establishments typically engaged in furnishing academic courses and associated coursework. May include universities (public/private), junior colleges (public/private), vocational schools.			
	Public Facility	Establishments typically operated by the local city or other government entities. May include government offices, community centers, fire/police stations, parks, city facilities, court houses, etc.			

Category	Type of Commercial	Typical Descriptions of Establishment	Gal/ Fixture	BOD/TSS	Sewage Factor (see Note A)
VII	Health Spa without Pool	Establishments typically operating fitness and recreation sports facilities featuring exercise and other active physical conditioning. Must not have a pool. May include physical fitness centers with pools, gyms without pools, day spas without pools, etc.	42	230/220	0.1555
	Laundromat	Establishment typically operating facilities with coin-operated or similar self-service laundry equipment for customer use on premises. Laundries or Laundromats classified under this category are for high efficiency front loading washing machines.			

Footnotes:

1. Non-coin operated car washes may be treated as an industrial user.

Appendix C: Sample of Sewer Maintenance – Daily Activity Report Form

City of Upland Daily Activity Report

Lead Staff	Staff	Staff	Staff	Staff

Begin Time	End Time	Total Time	Location	Activities For Date:

Appendix D: Example Summary of Recent Sewer Maintenance Activities

City of Upland Sewer System Management Plan
Appendix D - Example Summary of Recent Sewer Maintenance Activities

Facility ID	Inspected Date	From Manhole Number	To Manhole Number	Pipe Size	Footage	Street Name	Material	Minutes Spent	Crew	Reason	Cleaning	Insects	Repair	Flag For Root Cutting Later	Vacuum	Water Deposit in Mainline	Inaccessible Pipes	Inspected By	Comments
K-3-1009	6/20/2023 9:21	K-3-107	K-3-117	8	94.16		Vitrified Clay Pipe		0 HS HR GP									hrosales	
O-9-1011	4/1/2024 14:41	O-9-106	O-9-107	8	233		Vitrified Clay Pipe		0 JR HR	ROUTINE	Yes	No	No	No	No	No	No	jrojas	
I-9-1050	6/20/2023 10:11	I-9-145	I-9-153	8	236.52	AMBROSIA	Vitrified Clay Pipe		0 JR VA	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
I-9-1060	6/20/2023 10:12	I-9-155	I-9-102	8	288.89	MAJESTY	Vitrified Clay Pipe		0 JR VA	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
K-3-1024	6/20/2023 10:28	K-3-120	K-3-138	8	201.38		Vitrified Clay Pipe		0 HS hr GP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-3-1024	6/20/2023 11:04	K-3-120	K-3-138	8	201.38		Vitrified Clay Pipe		0 HS HR GP									hrosales	
K-3-1044	6/20/2023 11:06	K-3-138	K-3-136	8	131.25		Vitrified Clay Pipe		0 HS HR GP		Yes							hrosales	
K-3-1031	6/20/2023 11:10	K-3-129	K-3-128	8	134		Vitrified Clay Pipe		0 HS HR		Yes							hrosales	
K-3-1022	6/20/2023 11:11	K-3-118	K-3-119	8	95.37		Vitrified Clay Pipe		0 HR HS GP		Yes							hrosales	
K-3-1012	6/20/2023 11:19	K-3-110	K-3-124	8	116.79		Vitrified Clay Pipe		0 HS HR GP		Yes							hrosales	
K-3-1010	6/20/2023 11:20	K-3-108	K-3-122	8	116.19		Vitrified Clay Pipe		0 HS HR GP		Yes							hrosales	
I-9-1006	6/20/2023 13:20	I-9-103	I-9-112	8	159.84	AMBROSIA	Vitrified Clay Pipe		0 JR VA	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
K-3-1032	6/26/2023 14:04	K-3-128	K-3-249	8	98.51		Vitrified Clay Pipe		0 HS GP hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-3-1043	6/26/2023 14:04	K-3-150	K-3-135	8	141.46		Vitrified Clay Pipe		0 HS GP hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-3-1048	6/26/2023 14:59	K-3-151	K-3-137	8	141.48		Vitrified Clay Pipe		0 HS HR GP		Yes							hrosales	Ran multiple times due to debris
K-3-1041	6/26/2023 15:02	K-3-134	K-3-135	8	116.5		Vitrified Clay Pipe		0 HS HR GP	ROUTINE	Yes	No	No	No	No	No	No	hrosales	Ran multiple times due to a lot of debris and build up
K-3-1040	6/26/2023 15:03	K-3-149	K-3-133	8	141.46		Vitrified Clay Pipe		0 HS HR GP		Yes							hrosales	Ran multiple times due to buildup of debris
I-7-1006	6/26/2023 15:52	I-7-101	I-7-107	15	44.63		Vitrified Clay Pipe		0 HS HR GP	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
H-7-1053	6/26/2023 15:54	H-7-143	H-7-144	15	26		Vitrified Clay Pipe		0 HS HR GP	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
H-7-1047	6/26/2023 15:56	H-7-137	H-7-143	15	60	MIRAMAR	Vitrified Clay Pipe		0 HS HR GP	ROUTINE	Yes	No	No	Yes	No	No	No	hrosales	
K-3-1034	6/27/2023 12:36	K-3-131	K-3-130	8	142		Vitrified Clay Pipe		0 HS GP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-3-1035	6/27/2023 12:44	K-3-130	K-3-373	8	192.86		Vitrified Clay Pipe		0 HS GP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-3-1069	6/27/2023 17:00	K-3-155	K-3-157	8	264.12		Vitrified Clay Pipe		0 HS GP VA	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	Removed a very large rock in the line. Ran multiple times due to heavy buildup
K-3-1069	6/27/2023 17:00	K-3-155	K-3-157	8	264.12		Vitrified Clay Pipe		0 HS GP VA	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	Removed a very large rock in the line. Ran multiple times due to heavy buildup
K-3-1069	6/28/2023 8:52	K-3-155	K-3-157	8	264.12		Vitrified Clay Pipe		0 HS GP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-3-1055	6/28/2023 10:28	K-3-142	K-3-143	8	254	ANDES	Vitrified Clay Pipe		0 HS GP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-3-1063	6/28/2023 15:26	K-3-157	K-3-152	8	132.79		Vitrified Clay Pipe		0 HS GP VA	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
J-9-1055	6/29/2023 9:15	J-9-147	J-9-153	8	237.86	PARTRIDGE	Vitrified Clay Pipe		0 JR HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
K-3-1071	6/29/2023 9:20	K-3-158	K-3-159	8	346	16TH	Poly Vinyl Chloride		0 HS GP VA	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	Removed large amount of rock and sand debris. Ran multiple times
J-9-1028	7/10/2023 10:27	J-9-124	J-9-129	8	100.37		Vitrified Clay Pipe		0 VA JR HR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
R-8-1050	7/10/2023 13:46	R-8-127	R-8-140	8	437.5	10TH	Vitrified Clay Pipe		0 HS JP	ROUTINE	Yes	No	No	Yes	No	No	No	hsalcido	Flushed line for CCTV inspection. Removed root intrusion. Ran multiple times
J-8-1012	7/11/2023 8:21	J-8-111	J-8-109	8	110.17	DYLAN	Vitrified Clay Pipe		0 JR HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-8-1003	7/11/2023 13:17	J-8-101	J-8-110	8	248.1	MATTHYS	Vitrified Clay Pipe		0 JR HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-8-1014	7/11/2023 13:18	J-8-113	J-8-110	8	114.03	MATTHYS (ELY PTN)	Vitrified Clay Pipe		0 JR HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-4-1026	7/11/2023 13:34	J-4-121	J-4-122	8	36	ADRIANA	Vitrified Clay Pipe		0 HS JP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
J-4-1058	7/11/2023 15:22	J-4-144	J-4-264	8	21.99		Vitrified Clay Pipe		0 HS JP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
J-4-1058	7/11/2023 15:22	J-4-144	J-4-264	8	21.99		Vitrified Clay Pipe		0 HS JP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
J-4-1064	7/17/2023 10:20	J-4-147	J-4-265	8	4		Vitrified Clay Pipe		0 HS JP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
J-4-1066	7/17/2023 10:21	J-4-265	J-4-266	8	8		Cast Iron Pipe		0 HS JP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
J-4-1141	7/17/2023 10:22	J-4-183	J-4-513	8	114		Vitrified Clay Pipe		0 HS JP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
J-4-1138	7/17/2023 10:23	J-4-190	J-4-189	8	231		Vitrified Clay Pipe		0 HS JP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	Very dirty removed sand debris
J-5-1052	7/17/2023 11:46	J-5-146	J-5-143	8	314.45	17TH	Vitrified Clay Pipe		0 Jp hs	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-5-1051	7/17/2023 11:46	J-5-143	J-5-142	8	306	17TH	Vitrified Clay Pipe		0 Jp hs	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-6-1049	7/17/2023 13:57	J-6-140	J-6-139	8	154.08		Vitrified Clay Pipe		0 HS JP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	Cleaned line for CCTV inspection
J-5-1050	7/18/2023 13:44	J-5-142	J-5-141	8	303.71	17TH	Vitrified Clay Pipe		0 HS JP	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
J-5-1046	7/24/2023 9:53	J-5-139	J-5-138	8	352	17TH	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-8-1073	7/24/2023 10:26	J-8-161	J-8-360	8	37.37	HENDERSON	Vitrified Clay Pipe		0 Jp jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-8-1015	7/24/2023 10:27	J-8-112	J-8-118	8	159.77	LEGIDO	Vitrified Clay Pipe		0 Jp jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-5-1043	7/24/2023 11:06	J-5-137	J-5-136	8	271	17TH	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-5-1022	7/24/2023 13:18	J-5-116	J-5-125	8	277.03	ALBRIGHT	Vitrified Clay Pipe		0 HS hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
P-4-1089	7/24/2023 15:38	P-4-148	P-4-145	8	216.9	11TH	Vitrified Clay Pipe		0 Jp jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	A lot of grease and debris build up
J-6-1050	7/25/2023 8:26	J-6-141	J-6-140	8	157.96	17TH	Vitrified Clay Pipe		0 HS hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	Clean line for CCTV inspection
J-6-1051	7/25/2023 8:26	J-6-142	J-6-141	8	346.32	17TH	Vitrified Clay Pipe		0 HS hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	Clean line for CCTV inspection
J-6-1053	7/25/2023 8:28	J-6-144	J-6-143	8	200	17TH	Vitrified Clay Pipe		0 HS hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	Clean line for CCTV inspection
J-6-1045	7/25/2023 9:58	J-6-136	J-6-135	8	206.4	17TH	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-6-1047	7/25/2023 9:59	J-6-138	J-6-137	10	166	REDDING	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-6-1047	7/25/2023 10:00	J-6-138	J-6-137	10	166	REDDING	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
K-5-1008	7/26/2023 9:48	K-5-106	K-5-105	8	296	SHANNON	Vitrified Clay Pipe		0 HS hr	ROUTINE	Yes	No	No	Yes	No	No	No	hsalcido	
K-5-1012	7/26/2023 13:52	K-5-109	K-5-199	8	292	ERIN	Vitrified Clay Pipe		0 HS hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-5-1041	7/26/2023 13:53	K-5-103	K-5-132	8	58	ERIN	Vitrified Clay Pipe		0 HS hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-5-1042	7/26/2023 14:34	K-5-132	K-5-133	8	182.49	SULLIVAN	Vitrified Clay Pipe		0 HS hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
J-7-1003	8/2/2023 15:19	J-7-150	J-7-103	8	185.97	WINSTON	Vitrified Clay Pipe		0 VA HR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
J-7-1018	8/2/2023 15:19	J-7-114	J-7-113	8	216	LURLINE	Vitrified Clay Pipe		0 VA HR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
J-7-1019	8/2/2023 15:20	J-7-113	J-7-206	8	174.92	WINSTON	Vitrified Clay Pipe		0 VA HR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
I-7-1060	9/3/2023 9:16	I-7-101	I-7-149	8	48	18TH	Vitrified Clay Pipe		0 VA HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-7-1031	8/3/2023 10:40	J-7-122	J-7-131	8	201	FERNBROOK	Vitrified Clay Pipe		0 VA HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
K-5-1046	8/3/2023 14:21	K-5-135	K-5-136	8	291	SULLIVAN	Vitrified Clay Pipe		0 HS Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-7-1041	8/3/2023 14:31	J-7-131	J-7-306	8	276	FERNBROOK	Vitrified Clay Pipe		0 VA HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-7-1046	8/3/2023 14:32	J-7-306	J-7-137	8	31	FERNBROOK	Vitrified Clay Pipe		0 VA HR									hrosales	
O-8-1030	8/4/2023 8:54	O-8-134	O-8-125	15	147.55	FOOTHILL	Vitrified Clay Pipe		5 JL PE	HIGH FREQUENCY	Yes	No	No	No	No	No	No	pestrada	Ran multiple times at high pressure due to grease build up
O-8-1028	8/4/2023 8:55	O-8-124	O-8-125	8	231	FOOTHILL	Vitrified Clay Pipe		5 JL PE	HIGH FREQUENCY	Yes	No	No	No	No	No	No	pestrada	
T-7-1019	8/4/2023 10:00	T-7-112	T-7-111	10	551	7TH	Vitrified Clay Pipe		5 JL PE	HIGH FREQUENCY	Yes	No	No	No	No	No	No	pestrada	
Q-7-1032	8/4/2023 12:21	Q-7-127	Q-7-135	8	261.26	965 5TH	Unknown		0 HS JP	HIGH FREQUENCY	Yes	No	No	No	No	No	No	hsalcido	
K-6-1012	8/7/2023 15:04	K-6-101	K-6-112	8	152.63	GRANT	Vitrified Clay Pipe		5 VA PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	
K-4-1028	8/9/2023 8:10	K-4-113	K-4-129	8	346	BRIDGET	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-6-1005	8/9/2023 8:54	J-6-103	J-6-112	8	192.93	CLARK	Vitrified Clay Pipe		0 Va Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
K-4-1057	8/9/2023 10:02	K-4-139	K-4-149	8	249.52	ORANGEWOOD	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
K-4-1066	8/9/2023 10:03	K-4-148	K-4-149	8	205.26	MIMOSA	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
K-4-1067	8/9/2023 10:04	K-4-149	K-4-152	8	165.54	ORANGEWOOD	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
K-4-1072	8/9/2023 10:55	K-4-154	K-4-153	8	70.62	REDWOOD	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
K-4-1068	8/9/2023 10:57	K-4-150	K-4-154	8	159.02	REDWOOD	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
K-6-1001	8/9/2023 11:12	K-6-138	K-6-102	8	234.71	REDDING	Vitrified Clay Pipe		0 Va Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
K-4-1071	8/9/2023 13:56	K-4-153	K-4-347	8	33.68	REDWOOD	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
K-6-1006	8/9/2023 14:17	K-6-103	K-6-113	8	251.03	PALM	Vitrified Clay Pipe		0 Va Jp	ROUTINE	Yes	Yes	No	No	No	No	No	joperez	
L-4-1073	8/10/2023 9:08	L-4-159	L-4-158	8	154	HONEYDALE	Vitrified Clay Pipe		0 HS JR	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
L-4-1074	8/10/2023 9:16	L-4-158	L-4-180	8	307	CLOVERDALE	Vitrified Clay Pipe		0 HS JR	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-6-1011	8/10/2023 9:41	K-6-100	K-6-108	8	98.8	GRANT	Vitrified Clay Pipe		0 VA HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-4-1061	8/10/2023 10:57	L-4-148	L-4-155	8	146.43		Vitrified Clay Pipe		0 HS JR	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
L-4-1079	8/10/2023 11:26	L-4-165	L-4-163	8	94.1		Vitrified Clay Pipe		0 HS JR	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	Very dirty ran multiple times
L-4-1059	8/10/2023 11:27	L-4-147	L-4-146	8	51.89		Vitrified Clay Pipe		0 HS JR	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
L-4-1000	8/14/2023 9:12	K-4-347	L-4-113	8	280.57	BRENTWOOD	Vitrified Clay Pipe		0 HS PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	
K-6-1009	8/14/2023 10:39	K-6-106	K-6-117	8	321	LAUREL	Vitrified Clay Pipe		0 Va Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
L-4-1040	8/15/2023 10:05	L-4-277	L-4-136	8	34.76	LAKEWOOD	Vitrified Clay Pipe		0 HS PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	
L-4-1008	8/16/2023 13:33	L-4-104	L-4-125	8	356	WEDGEWOOD	Vitrified Clay Pipe		0 JR PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	
J-5-1032	8/17/2023 8:21	J-5-126	J-5-145	8	334.63		Vitrified Clay Pipe		0 HS VA	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-5-1002	8/17/2023 8:22	I-5-145	K-5-110	8	321		Vitrified Clay Pipe		0 HS VA	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-5-1013	8/17/2023 9:53	K-5-110	K-5-121	8	341	MOUNTAIN	Vitrified Clay Pipe		0 HS VA	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
K-4-1081	8/17/2023 14:58	K-4-162	K-4-163	8	38.64	BRONCO	Vitrified Clay Pipe		0 HS VA	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	Removed rock debris ran multiple times with cleaning nozzle
K-4-1078	8/17/2023 14:59	K-4-159	K-4-160	8	265.5	LAKEWOOD	Vitrified Clay Pipe		0 HS VA	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
L-4-1103	8/22/2023 15:14	L-4-182	L-4-183	-999	27.06	PALOMINO	Unknown		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-4-1006	8/23/2023 9:05	L-4-103	L-4-124	8	356	BRONCO	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-4-1033	8/23/2023 9:06	L-4-184	L-4-124	8	150.1	ASTER	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-4-1012	8/23/2023 9:07	L-4-107	L-4-123	8	321.7	ASTER	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-4-1030	8/23/2023 11:18	L-4-123	L-4-122	8	218.89	ASTER	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-4-1075	8/23/2023 13:33	L-4-161	L-4-160	8	366	RODEO	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1031	8/28/2023 13:30	L-5-124	L-5-134	8	226	O MALLEY	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1055	8/28/2023 15:23	L-5-146	L-5-324	8	248	15TH	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1016	8/29/2023 8:21	L-5-102	L-5-111	8	103.5	MULBERRY	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1017	8/29/2023 8:22	L-5-111	L-5-123	8	335.86	MULBERRY	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
K-7-1032	8/29/2023 9:50	K-7-121	K-7-132	8	327	WINSTON	Vitrified Clay Pipe		0 JR Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
L-5-1012	8/31/2023 8:00	L-5-108	L-5-122	8	336.72	COOLCREST	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1009	8/31/2023 8:24	L-5-107	L-5-106	8	311	ASTER	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1009	8/31/2023 8:24	L-5-107	L-5-106	8	311	ASTER	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1029	8/31/2023 9:37	L-5-122	L-5-136	8	340.21	COOLCREST	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1010	8/31/2023 10:00	L-5-106	L-5-117	8	325.5	ALBRIGHT	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1010	8/31/2023 10:00	L-5-106	L-5-117	8	325.5	ALBRIGHT	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-8-1029	9/5/2023 8:09	J-8-126	J-8-291	8	202.26	PITASSI	Vitrified Clay Pipe		0 Jr jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-8-1062	9/5/2023 9:20	J-8-327	J-8-154	8	30.01	UPLAND	Vitrified Clay Pipe		0 Jp jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
K-7-1047	9/5/2023 14:38	K-7-134	K-7-136	8	342	MERRIMAC	Vitrified Clay Pipe		0 Jr jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
L-7-1009	9/6/2023 7:46	L-7-105	L-7-104	8	186	MIA	Vitrified Clay Pipe		0 Jr jp	ROUTINE	Yes	Yes	No	No	No	No	No	joperez	
L-5-1041	9/6/2023 8:06	L-5-133	L-5-144	8	297	SHAMROCK	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-7-1004	9/6/2023 8:35	L-7-100	L-7-107	8	159.57	ASTER	Vitrified Clay Pipe		0 Jp jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
L-5-1067	9/6/2023 8:36	L-5-370	L-5-155	8	10	15TH	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1066	9/6/2023 8:37	L-5-155	L-5-104	8	158.07	15TH	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1065	9/6/2023 8:38	L-5-104	L-5-154	8	148.32	MULBERRY	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-5-1046	9/6/2023 9:17	L-5-136	L-5-152	8	320	COOLCREST	Vitrified Clay Pipe		0 HS HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	

City of Upland Sewer System Management Plan
Appendix D - Example Summary of Recent Sewer Maintenance Activities

L-4-1085	9/7/2023 9:01	L-4-172	L-4-171	8	296	FIFTEENTH	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-4-1038	9/11/2023 8:21	L-4-129	L-4-130	8	16	MOUNTAIN	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-8-1020	9/11/2023 8:30	L-8-116	L-8-125	8	145.01		Vitrified Clay Pipe	0	JR	VA	ROUTINE	Yes	Yes	No	No	No	No	No	vacevedo	
L-8-1029	9/11/2023 8:32	L-8-124	L-8-125	8	218.26		Vitrified Clay Pipe	0	JR	VA	ROUTINE	Yes	Yes	No	No	No	No	No	vacevedo	
L-8-1027	9/11/2023 9:35	L-8-122	L-8-123	8	219.14		Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	Yes	No	No	No	No	No	vacevedo	
L-8-1025	9/11/2023 9:35	L-8-121	L-8-122	8	252.35		Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
M-5-1070	9/11/2023 10:06	M-5-164	M-5-125	8	230.57	MULBERRY	Unknown	0	HS	HR	ROUTINE	Yes	Yes	No	No	No	No	No	hrosales	
K-5-1061	9/12/2023 11:17	K-5-152	K-5-146	8	306	16TH	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
K-5-1067	9/12/2023 11:17	K-5-156	K-5-152	8	150	16TH	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-8-1086	9/12/2023 11:31	J-8-173	J-8-183	8	256.8		Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
J-8-1076	9/12/2023 13:47	J-8-162	J-8-408	8	144.99	VELTO	Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
M-5-1047	9/12/2023 13:52	M-5-141	M-5-139	8	236.46	EMORY	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
J-8-1088	9/12/2023 14:08	J-8-184	J-8-187	8	34.24		Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	Yes	No	No	No	No	No	vacevedo	
M-5-1049	9/14/2023 10:02	M-5-140	M-5-142	8	380	WESTRIDGE	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	Yes	No	No	No	No	No	hrosales	
J-9-1070	9/14/2023 10:20	J-9-169	J-9-163	8	224.37	JUSTINE	Vitrified Clay Pipe	0	Jr	Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-9-1068	9/14/2023 10:20	J-9-159	J-9-160	8	239.5	UPLAND	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-9-1069	9/14/2023 10:20	J-9-160	J-9-162	8	199.58	UPLAND	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-9-1072	9/14/2023 10:21	J-9-162	J-9-163	8	265.59	UPLAND	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
N-5-1004	9/14/2023 14:40	N-5-102	N-5-106	8	338.15	OXFORD	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-5-1008	9/14/2023 14:40	N-5-106	N-5-105	8	353.86	NOTRE DAME	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-5-1007	9/14/2023 14:41	N-5-105	N-5-104	8	356	MAGNOLIA	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
M-5-1039	9/14/2023 14:41	M-5-243	M-5-135	8	119.5	KELLY	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	Yes	No	No	No	No	No	hrosales	
K-9-1059	9/14/2023 14:44	K-9-130	K-9-131	8	54.99	HUMMINGBIRD	Vitrified Clay Pipe	0	Jp	Jr	HIGH FREQUENCY	Yes	No	No	No	No	No	No	joperez	Heavy grease build up ran multiple times
L-7-1024	9/18/2023 10:46	L-7-117	L-7-118	8	21.63	WOODHAVEN	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	Yes	No	No	No	No	No	hrosales	
L-7-1025	9/18/2023 10:47	L-7-118	L-7-124	8	70.81	WINSTON	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	Yes	No	No	No	No	No	hrosales	
L-7-1031	9/18/2023 10:47	L-7-124	L-7-131	8	266	WINSTON	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	Yes	No	No	No	No	No	hrosales	
L-7-1039	9/18/2023 14:25	L-7-132	L-7-133	8	156		Vitrified Clay Pipe	0	HS	hs	ROUTINE	Yes	No	No	Yes	No	No	No	hsalcido	Ran multiple times do to heavy root and pool plaster buildup
L-7-1038	9/18/2023 14:28	L-7-131	L-7-132	8	166.73		Vitrified Clay Pipe	0	HS	hs	ROUTINE	Yes	No	No	Yes	No	No	No	hsalcido	Ran multiple times due to heavy root and pool plaster buildup
L-4-1020	9/19/2023 9:12	L-4-114	L-4-178	10	33.34	BENSON	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-4-1029	9/19/2023 9:15	L-4-121	L-4-145	8	346	OAKDALE	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
L-7-1015	9/21/2023 14:20	L-7-108	L-7-121	8	329	2ND	Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
L-7-1018	9/21/2023 14:20	L-7-112	L-7-122	8	259	1ST	Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
L-6-1018	9/25/2023 9:55	L-6-113	L-6-126	8	180.48	VIOLET	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
L-6-1031	9/25/2023 11:03	L-6-125	L-6-124	8	300	ASTER	Vitrified Clay Pipe	0	Jr	Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	Ran multiple times due to ribbon debris
M-4-1002	9/25/2023 13:49	M-4-100	M-4-111	8	302	BIBIANA	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	Manhole A: M-4-122 B: M-4-111 C: M-4-100 Hose struggles to travel after manhole B so suggesting not to shoot from A to C
R-7-1059	9/25/2023 15:09	R-7-144	R-7-145	-999	312.89		Unknown	0	HS	HR	ROUTINE	Yes	No	No	Yes	No	No	No	hrosales	Ran line multiple times due to CCTV inspection. Removed roots at lateral connections
R-7-1048	9/25/2023 15:11	R-7-138	R-7-140	8	81.8	D	Unknown	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	Ran line multiple times due to CCTV inspection. Removed roots at lateral connections
M-6-1004	9/25/2023 15:33	M-6-101	M-6-104	8	216	SAN ANTONIO	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
M-6-1007	9/25/2023 15:33	M-6-104	M-6-116	8	337.13	SAN ANTONIO	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
M-6-1021	9/26/2023 8:04	M-6-207	M-6-117	8	123	BOYD	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	Yes	No	Yes	No	No	No	joperez	
M-4-1067	9/26/2023 8:32	M-4-245	M-4-125	8	120.53	WINSLOW	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	Removed excessive amounts of roots flushed multiple times Reasoning for CCTV inspection
M-4-1068	9/26/2023 8:34	M-4-127	M-4-245	8	2.45	WINSLOW	Vitrified Clay Pipe	0	HS	HR									hrosales	Removed excessive amounts of roots flushed multiple times Reasoning for CCTV inspection
M-4-1059	9/26/2023 10:12	M-4-121	M-4-266	8	187.75	BRANCH	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
M-4-1160	9/26/2023 14:03	M-4-345	M-4-386	8	74.41	14TH	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	Ran multiple times removed sediment debris
M-4-1109	9/27/2023 8:14	M-4-133	M-4-141	8	262.2	PALOMINO	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
M-4-1088	9/27/2023 10:02	M-4-129	M-4-127	8	246	HOWARD ACCESS	Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
M-7-1001	9/27/2023 10:19	L-7-150	M-7-101	8	286	WINSTON	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
M-4-1102	9/27/2023 14:37	M-4-131	M-4-306	8	29		Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
M-4-1156	9/27/2023 14:38	M-4-142	M-4-393	8	296		Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
M-4-1124	9/28/2023 9:09	M-4-136	M-4-138	8	248.91		Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-4-1017	9/28/2023 14:46	N-4-111	N-4-120	8	330.83		Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-4-1002	9/28/2023 14:48	M-4-149	N-4-111	8	332.22		Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
I-6-1031	10/2/2023 13:53	I-6-123	I-6-131	8	325.2	LAUREL	Vitrified Clay Pipe	0	Jp	Jr.	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-7-1054	10/2/2023 14:50	J-7-144	J-7-143	10	255.7	EUCLID	Vitrified Clay Pipe	0	JR	JP	ROUTINE	Yes	No	No	No	No	No	No	joperez	Removed 5 gallon bucket of sediment
J-7-1027	10/3/2023 8:58	J-7-119	J-7-130	8	302	1ST	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-7-1053	10/3/2023 9:26	J-7-143	J-7-142	8	190	1ST	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
K-7-1003	10/3/2023 13:41	J-7-142	K-7-107	8	322	1ST	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
J-7-1039	10/3/2023 13:42	J-7-130	J-7-142	8	344	1ST	Vitrified Clay Pipe	0	Jr	Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
K-7-1040	10/3/2023 14:41	K-7-128	K-7-137	8	301.88	1ST	Vitrified Clay Pipe	0	Jr	Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
N-7-1002	10/4/2023 14:59	M-7-147	N-7-100	8	287.07	5TH	Vitrified Clay Pipe	0	Jpjr		ROUTINE	Yes	No	No	No	No	No	No	joperez	
L-5-1008	10/9/2023 9:19	L-5-105	L-5-119	8	332.6	ASTER	Vitrified Clay Pipe	0	HS	hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
L-7-1047	10/9/2023 9:49	L-7-140	L-7-144	8	98.38	15TH	Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
L-7-1043	10/9/2023 10:32	L-7-136	L-7-147	8	296	1ST	Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
L-7-1056	10/9/2023 11:20	L-7-145	L-7-146	8	174.7	2ND	Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
L-7-1056	10/9/2023 11:21	L-7-145	L-7-146	8	174.7	2ND	Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
M-7-1000	10/9/2023 14:17	L-7-146	M-7-102	8	338.81	1ST	Vitrified Clay Pipe	0	JR	VA	ROUTINE	Yes	Yes	No	No	No	No	No	vacevedo	
L-5-1025	10/9/2023 15:03	L-5-119	L-5-132	8	332.6	MOUNTAIN	Vitrified Clay Pipe	0	HR	HR	JL	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-4-1014	10/10/2023 8:52	N-4-108	N-4-110	8	296	NOTRE DAME	Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
M-7-1021	10/10/2023 9:50	M-7-115	M-7-123	8	296	1ST	Vitrified Clay Pipe	0	Jr	Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	Flushed line for MME inspection of 831
M-7-1021	10/10/2023 9:51	M-7-115	M-7-123	8	296	1ST	Vitrified Clay Pipe	0	Jr	Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	Flushed line for MME inspection of 831
N-4-1044	10/10/2023 10:53	N-4-129	N-4-130	8	246	PURDUE	Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-4-1025	10/10/2023 14:00	N-4-194	N-4-116	8	43	LAKEWOOD	Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-4-1026	10/10/2023 14:00	N-4-118	N-4-116	8	213.29	LAKEWOOD	Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
M-7-1005	10/10/2023 14:50	M-7-150	N-7-105	8	354	3RD	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
N-7-1014	10/11/2023 8:14	N-7-106	N-7-117	8	312	SHELLEY	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	Yes	No	No	No	No	No	joperez	
M-7-1059	10/11/2023 8:15	M-7-330	M-7-151	8	10	SHELLEY	Vitrified Clay Pipe	0	Jp	Jr									joperez	
H-8-1034	10/12/2023 3:57	H-8-127	H-8-134	8	383.43	CAMPUS	Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
H-8-1026	10/12/2023 3:58	H-8-120	H-8-118	8	31.93	CAMPUS	Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	Yes	No	No	No	No	No	vacevedo	
I-8-1013	10/12/2023 4:40	I-8-123	I-8-110	8	34.07	CAMPUS	Vitrified Clay Pipe	0	Whole	Crew									hrosales	
I-8-1015	10/12/2023 5:37	I-8-126	I-8-111	8	34.01	19TH	Vitrified Clay Pipe	0	Whole	Crew									hrosales	
K-6-1050	10/16/2023 8:29	K-6-143	K-6-142	8	361	16TH	Vitrified Clay Pipe	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	
I-9-1012	10/17/2023 8:23	I-9-107	I-9-116	10	177.13		Vitrified Clay Pipe	0	JR	Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
I-9-1022	10/17/2023 8:23	I-9-116	I-9-125	10	241		Vitrified Clay Pipe	0	JR	Jp	ROUTINE	Yes	No	No	No	No	No	No	joperez	
L-6-1011	10/17/2023 8:42	L-6-107	L-6-106	8	246	LILAC	Vitrified Clay Pipe	0	PE	VA	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
L-6-1009	10/17/2023 10:02	L-6-104	L-6-110	8	93.5	ASTER	Vitrified Clay Pipe	0	PE	VA	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
K-3-1026	6/20/2023 9:29	K-3-123	K-3-122	8	154.52		Vitrified Clay Pipe	0	HS	HR	GP								hrosales	
J-9-1033	10/18/2023 10:22	J-9-128	J-9-135	10	150.72		Vitrified Clay Pipe	0	Jp	Jr	HIGH FREQUENCY	Yes	No	No	No	No	No	No	joperez	
L-6-1029	10/19/2023 8:36	L-6-122	L-6-200	8	197.68	CARNATION	Vitrified Clay Pipe	0	VA	HR	ROUTINE	Yes	No	No	Yes	No	No	No	vacevedo	Removed roots
L-6-1040	10/19/2023 8:36	L-6-200	L-6-133	8	141.31	CARNATION	Vitrified Clay Pipe	0	VA	HR	ROUTINE	Yes	No	No	Yes	No	No	No	vacevedo	Removed roots
L-6-1057	10/19/2023 9:04	L-6-144	M-6-102	8	162	HARFORD	Vitrified Clay Pipe	0	VA	HS	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	Top of line. No manhole at to of 162ft
N-5-1008	10/24/2023 8:39	N-5-106	N-5-105	8	353.86	NOTRE DAME	Vitrified Clay Pipe	0	HS	HR	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
L-6-1061	10/25/2023 8:27	L-6-257	L-6-146	8	10	HARFORD	Vitrified Clay Pipe	0	VA	PE	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
N-5-1015	10/25/2023 8:49	N-5-165	N-5-113	8	179.36	ALBRIGHT	Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-5-1015	10/25/2023 8:49	N-5-165	N-5-113	8	179.36	ALBRIGHT	Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-5-1003	10/25/2023 8:50	N-5-101	N-5-165	8	231.64	ALBRIGHT	Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-4-1006	10/25/2023 10:31	N-4-101	N-4-102	8	179.03	KAREN	Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-4-1024	10/25/2023 14:44	N-4-103	N-4-115	8	73	DIANA	Vitrified Clay Pipe	0	HR	HS	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
M-7-1061	10/26/2023 8:36	L-7-154	M-7-153	10	226.33	EUCLID	Unknown	0	Jp	Jr	ROUTINE	Yes	No	No	No	No	No	No	joperez	Removed 2 n a half buckets of debris rocks and sand
N-7-1012	10/30/2023 10:25	N-7-104	N-7-119	8	364	1ST	Vitrified Clay Pipe	0	HR	JR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-7-1031	10/30/2023 13:40	N-7-124	N-7-132	8	330	WINSTON	Vitrified Clay Pipe	0	HR	JR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	Ran 3 times removed 5 gal bucket of rocks and sediment
N-6-1010	10/31/2023 13:36	N-6-107	N-6-106	8	363	LANGSTON	Vitrified Clay Pipe	0	HR	JR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	Ran multiple times line was extremely dirty
N-6-1003	10/31/2023 14:14	N-6-100	N-6-110	8	326.65	SAN ANTONIO	Vitrified Clay Pipe	0	HR	JR	ROUTINE	Yes	No	No	No	No	No	No	hrosales	Ran multiple times due to root intrusion. Means for CCTV
N-6-1008	11/1/2023 7:21	N-6-106	N-6-105	8	362.59	LANGSTON	Vitrified Clay Pipe	0	HR	VA	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
N-6-1048	11/1/2023 11:33	N-6-392	N-6-142	8	10	13TH	Vitrified Clay Pipe	0											vacevedo	
M-5-1009	11/6/2023 9:01	M-5-107	M-5-116	8	158.15	PRESTON	Vitrified Clay Pipe	0	JP	VA	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
M-5-1040	11/6/2023 9:42	M-5-133	M-5-147	8	296	MOUNTAIN	Vitrified Clay Pipe	0	JP	VA	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
N-4-1008	11/14/2023 14:22	N-4-103	N-4-114	8	254.05	DIANA	Vitrified Clay Pipe	0	JP	VA	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
N-4-1050	11/20/2023 13:36	N-4-135	N-4-136	8	250	SANDRA	Vitrified Clay Pipe	0	VA	JP	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
N-6-1012	11/28/2023 8:18	N-6-109	N-6-119	8	316	VALLEJO	Vitrified Clay Pipe	0	JR	PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	
L-9-1057	11/29/2023 10:39	L-8-134	L-9-146	8	280	15TH	Vitrified Clay Pipe	0	JR	PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	
L-9-1056	11/29/2023 10:39	L-9-146	L-9-145	8	267	15TH	Vitrified Clay Pipe	0	JR	PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	
M-9-1003	11/29/2023 10:40	L-9-151	M-9-106	8	152.33	JUANITA	Vitrified Clay Pipe	0	JR	PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	
M-9-1009	11/29/2023 11:25	M-9-104	M-9-106	8	246	JUANITA	Vitrified Clay Pipe	0	JR	PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	
K-8-1041	12/5/2023 10:28	K-8-109	K-8-133	8	29.3		Vitrified Clay Pipe	0	VA	JR									vacevedo	
M-9-1025	12/5/2023 14:50	M-9-121	M-9-122	8	196	HILDITA	Vitrified Clay Pipe	0	VA	JR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
Q-5-1038	12/6/2023 15:19	Q-5-128	Q-5-132	10	85	ARROW	Vitrified Clay Pipe	0	HS	hr	ROUTINE	Yes	Yes	No	No	No	No	No	hsalcido	Removed a large amount of sand debris. Ran multiple times
Q-5-1039	12/6/2023 15:21	Q-5-133	Q-5-129	10	224.38	MAPLE	Vitrified Clay Pipe	0	HS	hr	ROUTINE	Yes	Yes	No	No	No	No	No	hsalcido	Removed a large amount of sand debris. Ran multiple times
F-6-1023	12/6/2023 15:36	F-6-115	F-6-120	8	74	LAUREL	Vitrified Clay Pipe	0	HS	hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
P-7-1011	12/8/2023 7:39	P-7-100	P-7-109	8	76.6	FOOTHILL	Vitrified Clay Pipe	0	PE	VA	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	
O-5-1040	12/8/2023 14:34	O-5-132	O-6-139	8	402.44	FOOTHILL	Vitrified Clay Pipe	0	HS	Jp	HIGH FREQUENCY	Yes	No	No	No	No	No	No	hsalcido	
N-6-1013	12/13/2023 10:20	N-6-110	N-6-121	8	321	SAN ANTONIO	Vitrified Clay Pipe	1	HS	PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	Ran multiple times due some type of slurry inside the pipe
N-4-1068	1/2/2024 9:32	N-4-392	N-4-151	8	178	BENSON	Vitrified Clay Pipe	0	HS	hr	ROUTINE	Yes	No	No	No	No	No	No	hsalcido	
N-6-1033	1/9/2024 13:21	N-6-129	N-6-145	8	312.5	TULARE	Vitrified Clay Pipe	0	VA	HR	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	Roots and Debris retrieved. Recommend to flush until clean
O-6-1010	1/9/2024 15:36	O-6-104	O-6-120	8	326	REDDING	Vitrified Clay Pipe	0	HR	VA	ROUTINE	Yes	No	No	No	No	No	No	hrosales	
N-6-1053	1/10/2024 9:50	N-6-100	N-6-147	8	83	UKIAH	Vitrified Clay Pipe	0	HR	VA	ROUTINE	Yes	No	No	No	No	No	No	vacevedo	Roots
I-8-1037	1/29/2024 8:30	I-8-134	I-8-135	8	115.88		Poly Vinyl Chloride	0	JP	PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	
I-8-1038	1/29/2024 9:30	I-8-135	I-8-136	8	123.37		Poly Vinyl Chloride	0	JP	PE	ROUTINE	Yes	No	No	No	No	No	No	pestrada	

Appendix E: Sample CCTV Log from a Recent Sewer TV-Inspection

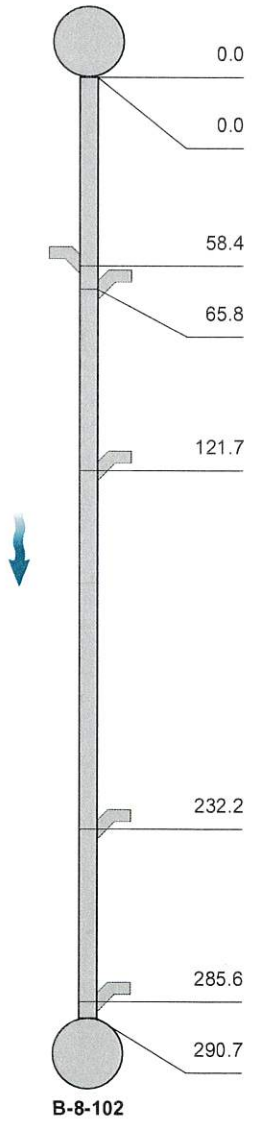
WINCAN

Inspection report

Date:	Work Order:	Weather:	Surveyed By:	Certificate Number:	Pipe Segment Ref.:
1/6/2025		**Dry**	**Hector S**	**3216**	**1/6/2025 9:43:05 AM**
Year laid:	Pre-cleaning:	Direction:	Pipe Joint Length:	Total Length:	Length Surveyed:
	Light Cleaning	**Downstream**		**290.7 '**	**290.7 '**

City:	**Upland**	Drainage Area:		Upstream MH:	**B-8-101**
Street:	**Thunder Mountain Rd**	Media Label:		Up Rim to Invert:	
Location Code:	**Primary major arterial roads**	Flow Control:		Downstream MH:	**B-8-102**
Location Details:	In front of address; 2559 Thunder Mountain Rd	Sheet Number:		Down Rim to Invert:	
Pipe shape:	**Circular**	Sewer Use:	**Sanitary Sewage Pipe**	Total gallons used:	**0.0**
Pipe size:	**8 "**	Sewer Category:	**SEC**	Joints passed:	**0**
Pipe material:	**Vitrified Clay Pipe**	Purpose:	**Routine Assessment**	Joints failed:	**0**
Lining Method:		Owner:	**Public**		

Additional Info:



1:2194 Distance	Code	Observation	Counter	Photo	Grade
0.0	AMH	Manhole / B-8-101	00:00:00		
0.0	MWL	Water Level, 3% of the vertical dimension	00:00:03		
58.4	TSA	Tap Saddle Activity at 3 o'clock, dia/height: 4inch	00:02:03	1_6_2025 9_43_05 AM_6663f	
65.8	TSA	Tap Saddle Activity at 9 o'clock, dia/height: 4inch	00:02:40	1_6_2025 9_43_05 AM_86ebb	
121.7	TSA	Tap Saddle Activity at 9 o'clock, dia/height: 4inch	00:05:20	1_6_2025 9_43_05 AM_c8592	
232.2	TSA	Tap Saddle Activity at 9 o'clock, dia/height: 4inch	00:13:33	1_6_2025 9_43_05 AM_5d1ce	
285.6	TSA	Tap Saddle Activity at 9 o'clock, dia/height: 4inch	00:31:30	1_6_2025 9_43_05 AM_e895b	
290.7	AMH	Manhole / B-8-102	00:33:10	1_6_2025 9_43_05 AM_13a70	

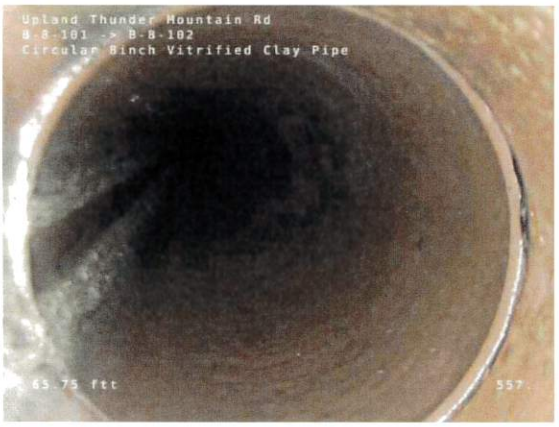
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0000	0.0	0.0	0.0	0.0	0.0	0.0

WINCAN

Section Pictures - 1/6/2025 - 1/6/2025 9:43:05 AM

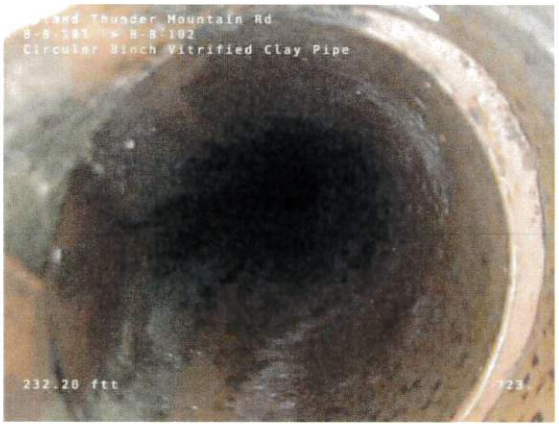
City	Street	Date	Lateral Segment Reference	Section No.
Upland	**Thunder Mountain Rd**	**1/6/2025**	**1/6/2025 9:43:05 AM**	**3**

1_6_2025 9_43_05
AM_6663fc2c-66ab-4112-a087-b81566e594fc_20250106_094941_378.jpg, 00:02:03, 58.42ft
Tap Saddle Activity at 3 o'clock, dia/height: 4inch



1_6_2025 9_43_05
AM_86ebb39d-f639-4a10-97fa-a4f48e0f5075_20250106_095033_022.jpg, 00:02:40, 65.76ft
Tap Saddle Activity at 9 o'clock, dia/height: 4inch

1_6_2025 9_43_05
AM_c8592056-b7b9-4506-83bf-1ab1eaf6a5d3_20250106_095331_137.jpg, 00:05:20, 121.68ft
Tap Saddle Activity at 9 o'clock, dia/height: 4inch

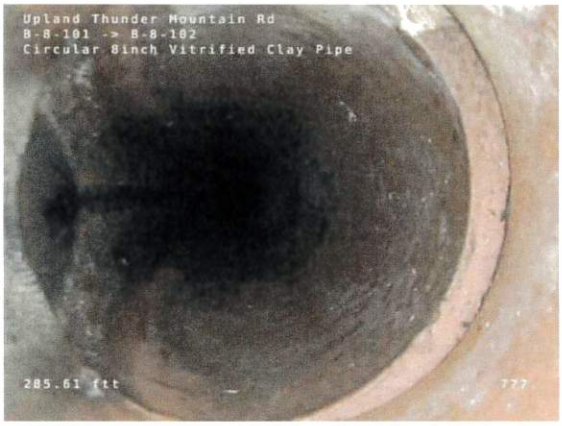


1_6_2025 9_43_05
AM_5d1ce817-4590-49c7-abf1-563ba474d2c3_20250106_100206_776.jpg, 00:13:33, 232.20ft
Tap Saddle Activity at 9 o'clock, dia/height: 4inch

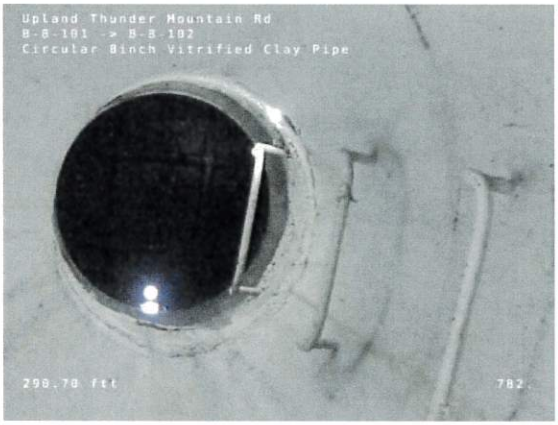
WINCAN

Section Pictures - 1/6/2025 - 1/6/2025 9:43:05 AM

City	Street	Date	Lateral Segment Reference	Section No.
Upland	**Thunder Mountain Rd**	**1/6/2025**	**1/6/2025 9:43:05 AM**	**3**



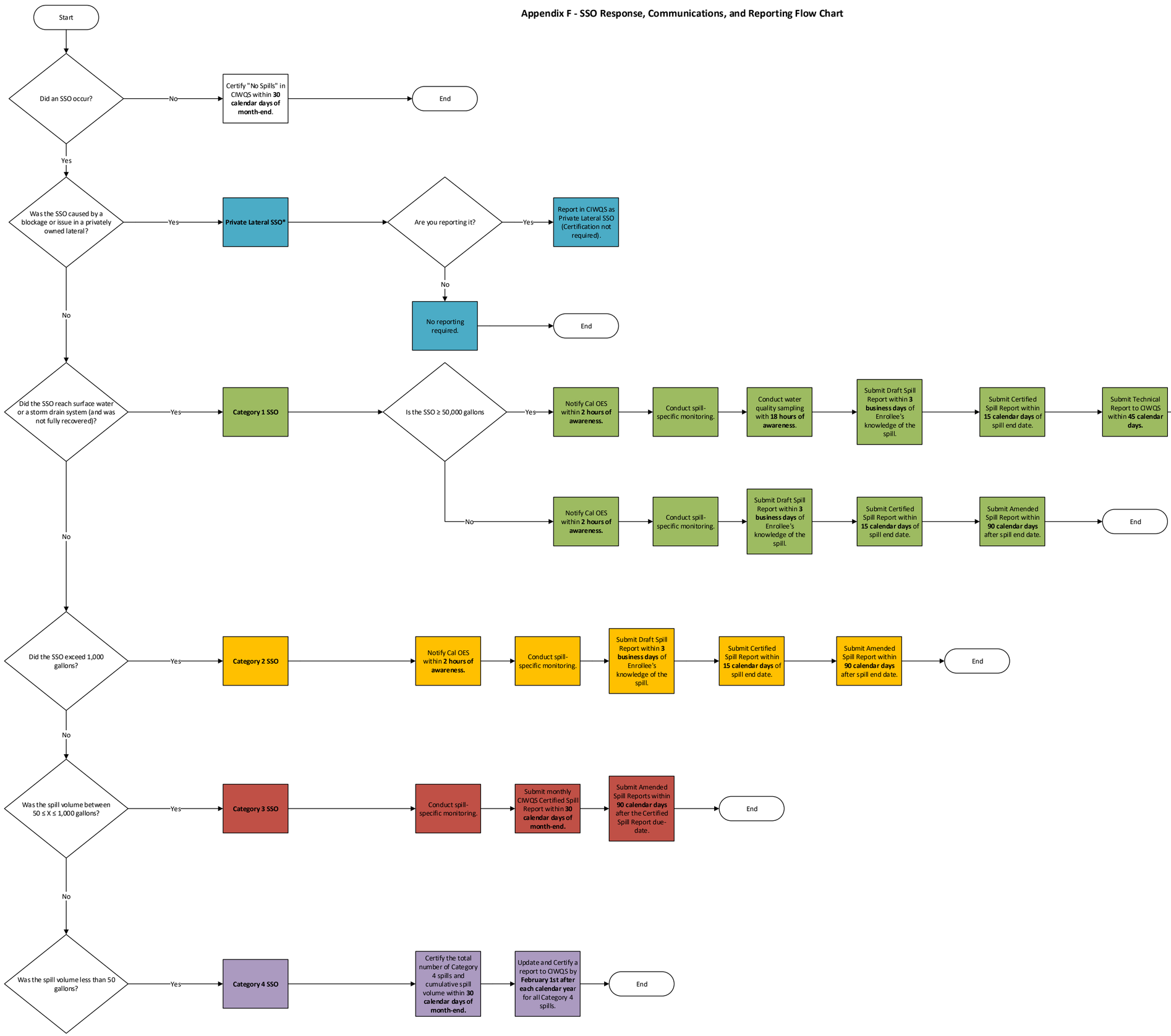
1_6_2025 9_43_05
AM_e895b841-ed7d-4bb8-a67f-98cb8eaa94e8_20250106_102033_012.jpg, 00:31:30, 285.61ft
Tap Saddle Activity at 9 o'clock, dia/height: 4inch



1_6_2025 9_43_05
AM_13a7004a-2000-450e-b4d7-57019df42edd_20250106_102345_857.jpg, 00:33:10, 290.70ft
Manhole / B-8-102

Appendix F: SSO Response, Communications, and Reporting Flow Chart

Appendix F - SSO Response, Communications, and Reporting Flow Chart



Legend
Green = Category 1
Yellow = Category 2
Red = Category 3
Purple = Category 4
Blue = Private Lateral
Diamond = Decision
Rectangle = Action/Outcome
Rounded Rectangle = Start/End
* = Private Lateral SSO Reporting is NOT required

Appendix G: SSO Reporting, Chain of Communication and Response Matrix

PUBLIC WORKS DEPARTMENT, SANITARY SEWER SPILL RESPONSE, REPORTING AND NOTIFICATION PROCEDURES

A. Incident Call-in and Notification

Get Information		Appropriate Response	Details
1 *Where did the incident occur? (Street address & cross street)*	**Emergency response warranted for any discharge to the public right-of-way or city drainage system; major spill of 1,000 gallons or more**	☐ 1 Call or page SSO Response Crew or appropriate supervisor	Sewer Utilities Crew Utilities Supervisor - Sewer
		☐ 2 Notify the Division Managers and Utilities Division	Public Works Director
2 *When did this incident occur? Or is it presently occurring?*		☐ 3 Notify as appropriate -	
3 *Get background information. What happened or is happening?*		☐ Police/Code enforcement	(909) 946-7624
		☐ Fire Dept	(909) 931-4180
		☐ Environmental Div for NPDES	(909) 291-2930
		☐ County DEHS	(909) 884-4056
		☐ IEUA	(909) 993-1600
		☐ SBCFCD	(909) 387-7918
		☐ RWQCB	(909) 782-4130
		☐ OES	(800) 852-7550
What materials are involved?	**(CONTROL, CONTAIN, CLEAN-UP)**	☐ 4 Submit details of incident to supervisor	
		☐ 5 Supervisor notifies Utilities Supervisor - Sewer and Provides details for Preliminary Spill Report, CIWQS Electronic Reporting,	
Particularly, does the situation affect or threaten to affect the public right-of-way and stormdrains? (Y/N)		☐ 6 Utilities Supervisor - Sewer, prepare and submit SSO report	
		☐ 7 After cleanup, submit and certify SSO Final Report	
		☐ 8 Prepare and submit Cost Recovery Report, if applicable	
4 *Does the caller know who or what caused the situation?*	**Minor spills, non-emergency response clean-up or investigation required (CONTROL CONTAIN, CLEAN-UP)**	☐ 1 Call SSO Response Crew or appropriate supervisor	Sewer Crew Utilities Supervisor - Sewer
		☐ 2 Contact as appropriate	
5 *Ask if the caller wants to leave name, phone number and whether the caller wishes to be contacted later.*		☐ Police/Code enforcement	(909) 946-7624
		☐ Fire Dept	(909) 931-4180
		☐ Environmental Div for NPDES	(909) 291-2930
		☐ County DEHS	(909) 884-4056
		☐ IEUA	(909) 993-1600
		☐ SBCFCD	(909) 387-7918
		☐ RWQCB	(909) 782-4130
		Same as Steps 4, 5, 6, 7, 8 as above	
6 *Determine appropriate response, COMPLETE ALL COLUMNS TO THE RIGHT and ROWS BELOW*	**No immediate response required, education or follow-up needed**	☐ 1 Utilities Supervisor - Sewer	
		☐ 2 Contact as appropriate	
7 *IN ALL CASES: Turn in Notes and Reports to the Water Operations Manager for preparation of the Sanitary Sewer Spill/Overflow (SSO) Incident Report.*		☐ Environmental Div for NPDES	(909) 291-2930
		☐ County DEHS	(909) 884-4056
		☐ IEUA	(909) 993-1600
		☐ SBCFCD	(909) 387-7918
		☐ RWQCB	(909) 782-4130
		Same as Steps 4, 5, 6, 7, 8 as above	

Note: **SSO Response Crew** - is the designated Utilities Sewer Crew or Maintenance Crew member whose duty for the days is sewer maintenance and sewer related issues; the Sewer Stand-by Person during off-hours, weekends and holidays.

NOTES	
By	

Date Logged-In:		**IWORQS - Data Entry Date:**	

Appendix H: List of Non-Domestic Wastewater Discharge Permittees

City of Upland Sewer System Management Plan
Appendix H - List of Non-Domestic Wastewater Discharge Permittees

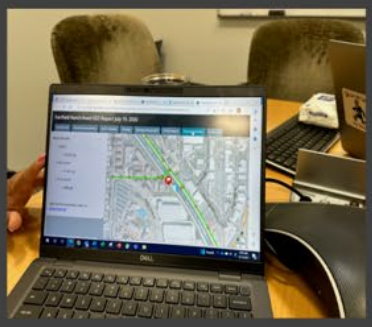
PermitNo	Permittee	Address	City	txtSit	SiteZipCode	txtClassCode
5812 -515	1906 Pub	1231 E. 16th St	Upland	Ca	91786	Full Service Restaurant
FOG-0224	9th Street Coin Laundry	271 East 9th Street	Upland	Ca	91786	Coin Operated Laundry
5411-030	Albertson's #599	1910 N Campus Ave.	Upland	CA	91784	Supermarket
5411-41	Amazon Fresh - MAF5	235 Foothill Blvd	Upland	CA	91786	Supermarket
5812-663	Angelo's 6 Burgers	165 S. Mountain Ave	Upland	CA	91786	Fast Food Restaurant
5812-136	Arby's # 5974	1299 E. Foothill Blvd	Upland	CA	91786	Fast Food Restaurant
5812-444	Arigato Sushi	158 W Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
5812-709	Sea Queen	965 W Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
5812-525	New Indian Restaurant	583 E Foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
5812-241	Baker's Burgers #152	188 E. Foothill Blvd	Upland	CA	91786	College/University/School
5812-594	Bakers Burgers #168	2416 W Arrow Route	Upland	CA	91786	Fast Food Restaurant
8211-002	Baldy View Elementary	979 W. 11th St.	Upland	CA	91786	Fast Food Restaurant
5812-714	Beola's Chicken & Waffles	2085 W. Baseline Rd. Bldg. D Ste. 200	Upland	CA	91784	Club/Organization
5812-662	Bombdiggity Dogs, Burgers & Brew	261 N Mountain Ave	Upland	CA	91786	Full Service Restaurant
7933-005	Bowlero	451 E. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
8361-245	Brandon's Diner	870 E. Foothill Blvd	Upland	CA	91786	Other
5812-692	Brandon's Diner Mountain	390 N Mountain Ave.	Upland	CA	91786	Fast Food Restaurant
5812-001	Bulldog Pub	1667 N. Mountain Ave	Upland	CA	91786	Bakery
5812-622	Burger King	910 N. Mountain Ave	Upland	CA	91786	Full Service Restaurant
5812-658	Butter Café and Bakery	1071 E 16th Street Unit C	Upland	CA	91786	Other
5812-197	Cafe Allegro	186 N. Second Ave	Upland	CA	91786	Full Service Restaurant
7532- 05	Caliber Col #1238	555 W Foot	Upland	CA	91786	Fast Food Restaurant
7532-02	Caliber Collision Center	2110 Airport Drive	Upland	CA	91786	Fast Food Restaurant
5812-618	California Fish Grill	1135 E 19th Street Suite C	Upland	CA	91784	Fast Food Restaurant
5812-410	Carls Jr #116	1915 W Campus Ave.	Upland	CA	91784	Other
5812-609	Carl's Jr. # 134	688 E. Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
5812-455	Carl's Jr. #270	1610 W. Foothill Blvd	Upland	CA	91786	Fast Food Restaurant
7538-01	Carquest	496 E. C St.	Upland	Ca	91786	Fast Food Restaurant
5812-145	Carrow's Restaurant #940	425 N. Mountain Ave.	Upland	Ca	91786	Full Service Restaurant
5812-704	Chick-Fil-A (Mountain)	335 S. Mountain Ave	Upland	CA	91786	Full Service Restaurant
5812-357	Chik-Fil-A	1949 Campus Ave	Upland	CA	91786	Fast Food Restaurant
5812-600	Chili's	1191 E 19th Street	Upland	CA	91786	Bakery
5812-246	Chipotle	1092 Mountain Ave	Upland	CA	91786	Fast Food Restaurant
5812-680	Chipotle # 3403	2057 W Baseline Road	Upland	CA	91786	Full Service Restaurant
5461-013	Christy Donuts	870 E. Foothill Blvd	Upland	CA	91786	Fast Food Restaurant
FOG-578	Chucks Tacos	661 E Foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
5812-004	Coco's #134	60 W. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5812-608	College Park Retail Center	2440 W Arrow Route	Upland	CA	91786	Full Service Restaurant
5812-598	Connals	1226 W 7th Street	Upland	CA	91786	Fast Food Restaurant
5812-647	Corkey's Kitchen	385 S Mountain Ave	Upland	CA	91786	Other
5812-661	Corky's - Sycamore	2213 E Baseline Road	Upland	CA	91786	Fast Food Restaurant
7384-020	CVS Pharmacy # 9698	100 East foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
7384-10	CVS Pharmacy # 9792	690 E Foothill Blvd.	Upland	CA	97186	Fast Food Restaurant
5812-969	D Grill Boy	1042 N Mountain Ave. Unit A-1	Upland	CA	91786	Fast Food Restaurant
0892-015	Da Vita Dialysis	600 N. 13th St.	Upland	CA	91786	Full Service Restaurant
5812-590	Daddy O's Rockin Café	228 N 2nd Avenue	Upland	CA	91786	Other
5812-378	Dalia's Pizza Market Upland	/DBA Sonya'sTaste of Italy	Upland	CA	91786	Fast Food Restaurant
5812-006	Del Taco # 221	1371 E. Foothill Blvd.	Upland	CA	91786	Bakery
5812-122	Del Taco #243	1643 W. Foothill Blvd	Upland	CA	91786	Other
5812-008	Denny's # 6702	825 W. Foothill Blvd	Upland	CA	91786	Bakery
3444-001	Dimic Sheet Metal	145 N. 8th Ave	Upland	CA	91786	Full Service Restaurant
5812-040	Dominos Pizza	1277 W. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5461-012	Donut Delite	906 N. Central Ave	Upland	CA	91786	Fast Food Restaurant
4225-001	Dry Dock Depot	1450 N. Campus Ave	Upland	CA	91784	Full Service Restaurant
5461-09	DT Top Donuts	917 S. Mountain Ave	Upland	CA	91786	Full Service Restaurant
5812-579	Eden Garden Fusion Café	312 E A Street	Upland	CA	91786	Fast Food Restaurant
5812-352	El Perico	1401 E. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5812-164	El Pollo Loco	760 E. Foothill Blvd	Upland	CA	91786	Fast Food Restaurant
5812-582	El Pollo Loco #3740	1126 E 19th Street	Upland	CA	91786	Automotive Service / Repair
5812-583	Elvira's Grill	373 E Foothill Blvd. Unit G	Upland	CA	91786	Other
5812-664	E-Z Burger & Grill	515 N. Mountain Ave	Upland	CA	91786	Fast Food Restaurant

5812-670	Falafelo House	1386 E Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
5812-328	Farmer Boys	1170 W. Foothill Blvd	Upland	CA	91786	Carwash
5531-001	Firestone #7169	1434 E. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
7539-599	Foothill Auto	382 E Foothill Blvd.	Upland	CA	91786	Nursing Home
7542-085	Foothill Carwash	2016 W Foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
5511-001	Ford of Upland	555 W. Foothill Blvd	Upland	Ca	91786	Fast Food Restaurant
5511-003	Ford of Upland (20th St.)	1300 E. 20th St.	Upland	CA	91784	Fast Food Restaurant
5812-659	Foxy Noodle	507 N Mountain Ave	Upland	CA	91786	Fast Food Restaurant
5812-470	Fratello's Pizza & Pasta	1667 N Mountain Ave.	Upland	CA	91786	Fast Food Restaurant
5812-703	Fuego Cravings	1466 E Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
7542-084	Good Tyme Carwash	519 N Mountain Ave	Upland	CA	91786	Full Service Restaurant
5812-523	Grazie's Restaurant	1615 N. Mountain Ave	Upland	CA	91786	Full Service Restaurant
8361-001	Heritage Care & Rehab	275 Garnett Way	Upland	CA	91786	Full Service Restaurant
5812-571	Honey Baked Ham	352 S. Mountain Ave	Upland	CA	91786	Full Service Restaurant
5812-010	IHOP	80 N. Euclid Ave	Upland	CA	91786	Other
5812-212	Imagine That Banquet Hall	1318 W 9th Street	Upland	CA	91786	Full Service Restaurant
5812-660	IN N OUT Burger #336	1152 E 20th Street	Upland	CA	91786	Fast Food Restaurant
5812-593	Incas Peruvian	870 E Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
5812-031	In-N-Out #45	1837 West Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
5812-012	Jack In The Box	611 W. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5812-425	JD Allison's Bar & Grill	291 N Second Ave.	Upland	CA	91786	Full Service Restaurant
5812-126	Jims Burger's	969 W. Foothill Blvd	Upland	CA	91786	Fast Food Restaurant
5812-159	Juan Pollo # 22	156 West Foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
5812-707	Juan Pollo Restaurant	273 E 9th Street	Upland	CA	91786	Fast Food Restaurant
5812-705	Kahramana Restaurant	345 W. Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
5812-970	Kedai Indonesian Café	110 S Mountain Ave	Upland	CA	91786	Fast Food Restaurant
5812-690	KFC	1188 W Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
1541-001	King Cheese Corp.	2074 W. 11th st. #C	Upland	CA	91786	Fast Food Restaurant
5812-603	Kishi Japanese	320 W. Foothill Blvd	Upland	CA	91786	Fast Food Restaurant
5812-358	Kuma Sushi	1905 N. Campus Ave	Upland	CA	91784	Other
5812-685	La Tapatia Mexican Grill	153 W Foothill Blvd.	Upland	CA	91786	Other
5181-15	Last Name Brewery	2120 Porterfield Way	Upland	CA	91786	Full Service Restaurant
FOG-0227	Le Chef	930 N. Central Ave	Upland	CA	91786	Full Service Restaurant
5812-447	Legend's Burger	1645 N. Mountain Ave	Upland	CA	91786	Full Service Restaurant
5813-517	Limericks Tavern	1234 W Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
5812-702	Lotus Garden	1639 N Mountain Ave.	Upland	CA	91786	Full Service Restaurant
5812-706	Louie's Chicken and Fish Grill	960 N Mountain Ave.	Upland	CA	91786	Fast Food Restaurant
5812-563	Mariscos Camacho	9-69 N Grove	Upland	CA	91786	Fast Food Restaurant
5812-676	Mariscos Max Azul Mexican Food	1013 W Foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
5812-426	McDonald's #2666 Classic location	1590 W. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5812-335	McDonald's #5339	100 E. Foothill Blvd	Upland	CA	91796	Fast Food Restaurant
5812-672	Miche Linda's Mexican Grill	583 E Foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
7542-005	Mission Car Wash	1101 E. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5812-713	MOD Pizza	2085 W. Baseline Rd. Bldg. D Ste. 110	Upland	CA	91786	College/University/School
5812-117	Molly's Souper	388 N. 1st St.	Upland	CA	91786	Fast Food Restaurant
5812-694	Mooyah 311	75 E Foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
5812-698	Mountain Mike's Pizza	65 E Foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
7542-086	Mountain View Auto Spa	369 N. Mountain Ave	Upland	CA	91786	Full Service Restaurant
5511-002	Mountain View Chevrolet	1079 W. Foothill Blvd	Upland	Ca	91786	Fast Food Restaurant
5812-624	Oggi's Pizza	1173 E 19th Street	Upland	CA	91786	Full Service Restaurant
5812-331	Old World Deli	281 S. Mountain Ave	Upland	CA	91786	Fast Food Restaurant
5812-701	One Way Burger	1403 E. Foothill Blvd	Upland	CA	91786	Other
5812-175	Outback Steak House	530 N. Mountain Ave	Upland	CA	91786	Other

7542-010	Pacific Car Wash	1639 W. Foothill Blvd	Upland	Ca	91786	Other
FOG-1592	Pacific Development	Colonies Crossroads	Upland	CA	91786	Fast Food Restaurant
5812-604	Pacific Development #3	1071 E 19th Street A,C,D,& E	Upland	CA	91786	Full Service Restaurant
5812-591	Pacific Development 2	1053 E 19th Street Suits A, B, $C	Upland	CA	91786	Full Service Restaurant
5812-577	Panda Express	140 S Mountain Ave.	Upland	CA	91786	Full Service Restaurant
5812-695	Panzarello's	1615 N Mountain Ave	Upland	CA	91786	Fast Food Restaurant
5812-474	Papa John's Pizza	1242 West Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5812-376	Petrilli's Pizza	110 S. Mountain Ave	Upland	CA	91786	Full Service Restaurant
5812-380	Pho Century	1244 West Foothill Blvd.	Upland	CA	91786	Coin Operated Laundry
5812-504	Pho Rex	271 S Mountain Ave.	Upland	CA	91786	Hospital
8211-003	Pioneer Junior High	245 W. 18th St.	Upland	CA	91786	Full Service Restaurant
5812-114	Pizza Hut	1261 W. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5812-688	Pollos Kikiryki	430 N Central Ave	Upland	CA	91786	Full Service Restaurant
5812-522	Popeye's Chicken	1620 W. Foothill Blvd	Upland	CA	91786	Fast Food Restaurant
3089-09	Precision Molded Plastic	880 W. 9th St	Upland	Ca	91786	Fast Food Restaurant
7542-082	Premier Upland LLC	204 N. Euclid Ave	Upland	CA	91786	Full Service Restaurant
FOG-0228	Primewash Express	820 W Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
5812-321	Pueblita Mexican Restaurant	555 N. Benson	Upland	CA	91786	Supermarket
5812-648	Raising Cane's	183 E Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
5812-329	Rancho Los Magueyes	1667 N Mountain Ave.	Upland	CA	91786	Supermarket
5812-621	Red Devil Pizza	907 W Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
6512-010	Red Hill Plaza #1466	1466 E Foothill Blvd.	Upland	CA	91786	Supermarket
6512-012	Redhill Plaza #1410	1410 E. Foothill Blvd	Upland	CA	91786	Supermarket
6512-011	Redhill Plaza #1434	1434 E. Foothill Blvd	Upland	CA	91786	Fast Food Restaurant
5812-686	Rescue Brewing	167 N 2nd Ave	Upland	CA	91786	Fast Food Restaurant
FOG-0226	Riceberry Thai	893 W Foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
5812-232	Rizza Pizza	1031 W. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5812-712	Round Table Pizza	830 W. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5812-611	Roundin 3rd	1048 E 16th Street Suite F	Upland	CA	91786	Fast Food Restaurant
7542-083	Route 66 Carwash	325 E Foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
5812-632	Ruben's Taco	175 N. Grove Ave	Upland	CA	91786	Fast Food Restaurant
5812-652	Sake Sake 2	289 S Mountain Ave	Upland	CA	91786	Full Service Restaurant
5812-568	Sammy's Café	131 W Foothill Blvd.Suite B	Upland	CA	91786	Fast Food Restaurant
FOG-0225	San Antonio Coin Laundry	177 N San Antonio Ave	Upland	CA	91786	Fast Food Restaurant
8060-12	San Antonio Regional Hospital	999 San Bernardino Road	Upland	CA	91786	Full Service Restaurant
5812-459	San Biaggio Pizza #2	1118 E 19th Street	Upland	CA	91786	Full Service Restaurant
5812-066	San Biagio's Pizza	1263 W. 7th Street	Upland	CA	91786	Full Service Restaurant
5812-635	Sato Sushi	373 E Foothill Blvd. Unit D	Upland	CA	91786	Full Service Restaurant
5812-479-2	Score Sports Bar and Grill	1721 W 11th Street	Upland	CA	91786	Fast Food Restaurant
5812-454	Second Avenue Saloon	271 N Second Avenue	Upland	CA	91786	Fast Food Restaurant
5812-691	Secret Sauce	903 W Foothill Blvd Unit B	Upland	CA	91786	Full Service Restaurant
5812-344	Senor Baja	1620 W. Foothill Blvd	Upland	CA	91786	Fast Food Restaurant
5812-131	Shakey's Pizza	791 E. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5411-029	Smart and Final Store #707	1028 N Mountain Ave.	Upland	CA	91786	Other
5812-228	Spaggi's Italian	1651 W. Foothill Blvd	Upland	CA	91786	Full Service Restaurant
5411-40	Sprouts Farmers Market	847 W. Foothill Blvd	Upland	CA	91786	Bakery
7542-087	Squeaky Clean Carwash	1869 W Foothil Blvd	Upland	CA	91786	Coffee Shop
5812/615	Star Crab	1490 E Foothill Blvd. Unit A	Upland	CA	91786	College/University/School
5411-003	Stater Bros. #45	919 N. Mountain Ave	Upland	CA	91786	Fast Food Restaurant
5411-002	Stater Bros. #65	1619 N. Mountain Ave	Upland	CA	91786	Nursing Home
5812-157	Subway Sandwich # 5484	1466 E. Foothill Blvd	Upland	CA	91786	Nursing Home

5812-291	Subway Sandwich #24808	291 C St.	Upland	C A	91786	Other
5812-203	Subway Sandwich #2627	298 S. Mountain Ave	Upland	CA	91786	Supermarket
5812-3542	Sushi Shiro	967 W Foothil Blvd.	Upland	CA	91786	Fast Food Restaurant
5812-628	Sushi Takumi	1651 W Foothill Blvd.	Upland	CA	91786	Photo
5812-601	Swad of India	1410 W 7th Street	Upland	CA	91786	Fast Food Restaurant
5812-715	Sycamore Hills #2	2085 W. Baseline Rd. Bldg. D Ste 100-400	Upland	CA	91786	Fast Food Restaurant
5812-679	Sycamore Hills Plaza LLC	2209 Baseline Road	Upland	CA	91786	College/University/School
5812-021	Taco Bell #1070	886 w. Foothill Blvd	Upland	Ca	91786	Supermarket
5812-637	Tacos Los Carnales	1262 W Foothill Blvd.	Upland	CA	91786	Full Service Restaurant
5812-503	Tanya's Lebanese Kabab	915.5 W Foothill Blvd.	Upland	CA	91786	Fast Food Restaurant
5812-435	Taqueria Los Magueyes	185 S Euclid Ave.	Upland	CA	91786	Fast Food Restaurant
5990-05	Target	1931 Campus Ave.	Upland	CA	91786	Fast Food Restaurant
5812-651	Taste of Sumatra	1490 E Foothill Blvd. Unit D	Upland	CA	91786	Full Service Restaurant
5812-216	Tasty Goody	1630 W. Foothill Blvd	Upland	CA	91786	
5812-330	Tequila Hoppers	60 N. Mountain Ave	Upland	CA	91786	
5511-04	Tesla Motors, Inc.	1018 E. 20th St.	Upland	CA	91784	
5812-250	Thai Family Restaurant	130 S. Mountain Ave	Upland	CA	91786	
5812-689	Thai Ivory Quisine	924 N. Central Ave	Upland	VA	91786	
5812-620	The Habit Burger Grill	1213 W Foothill Blvd.	Upland	CA	91786	
5812-147	The Hat #3	857 N. Central Ave	Upland	CA	91786	
5815-465	The Heights Restaurant & Bar	1883 N Campus Ave. Unit C	Upland	CA	91784	
5182-709	The Hitch Burger & Grill	2420 W. Arrow Rte.	Upland	CA	91786	
5812-581	The Palace	1276 W 7th Street	Upland	CA	91786	
9710-001	Thrall Hall U.S. Army Reserve Center	1284 E. 7th St	Upland	CA	91786	
5812-711	Toro Y Pampa	915 N. Euclid Avbe.	Upland	CA	91786	
5461-005	Upland Donuts	1627 N. Mountain Ave	Upland	Ca	91786	
5812-353	Upland German Deli	983 W. Foothill Blvd	Upland	CA	91786	
8211-001	Upland High School	565 W. 11th St.	Upland	Ca	91786	
5812-438	Upland Kabob	733 N Mountain Ave.	Upland	CA	91786	
8059-017	Upland Rehab & Care	1221 E. Arrow Hwy	Upland	CA	91786	
8059-002	Villa Mesa Care Center	867 E. 11th St	Upland	CA	91786	
4131-082	Visser Bus Services Inc.	1469 W 9th street	Upland	CA	91786	
5411-22	Vons	81 W Foothill Blvd.	Upland	CA	91786	
5812-592	Waba Grill	899 W Foothill Blvd.	Upland	CA	91786	
7384-028	Wal Mart #1992	1540 W Foothill Blvd	Upland	CA	91786	
5411-26	Wal Mart #5691	1445 E Foothill Blvd.	Upland	CA	91786	
5812-667	Wendy's #135	2199 W Baseline Street	Upland	CA	91786	
5812-625	Wendy's #9330	187 S. Mountain Ave	Upland	CA	91786	
8290-011	Western Christian	100 W 9th Street	Upland	CA	91876	
FOG-5211-035	Whole Foods	2153 W Baseline Road	Upland	CA	91786	
5812-630	Wicked Cow	131 W Foothill Blvd.	Upland	CA	91786	
5812-710	Wienerschnitzel #543	1381 E. Foothill Blvd	Upland	CA	91786	
5812-677	Wing Stop	110 S Mountain Ave.	Upland	CA	91786	
5812-327	Yoshinoya	1261 West Foothill Blvd.	Upland	CA	91786	
5812-509	Zaky Mediterranean Cuisine	1013 W Foothill Blvd.	Upland	CA	91786	

Appendix I: IEUA's SERP



SPILL EMERGENCY RESPONSE PLAN (SERP)

UPDATE (MAY 2023)

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

SERP Review and Approved By	Name/Title	Signature/Date
Legally Responsible Official (1)		
Legally Responsible Official (2)		
Legally Responsible Official (3)		

ACTIVITY CHANGE LOG (SERP)		
Date	Responsible Person/Title	Description Activity/Change

PART 1 (COMPLIANCE GUIDE)

PART 2 (FIELD GUIDE)

LIST OF TABLES

LIST OF ATTACHMENTS

Introduction

This document, the Spill Emergency Response Plan (SERP), formerly known as the Overflow Emergency Response Plan (OERP) has been prepared by Fischer Compliance LLC with assistance from the Inland Empire Utilities Agency (IEUA) staff for complying with one of a series of updated regulatory requirements resulting from the State Water Resources Control Board 2022 adoption of the "reissued" Statewide Waste Discharge Requirements General Order for Sanitary Sewer Systems[1] (referred to as "the 2022 WDR" throughout this document."

One primary area of focus by the State Water Board through updated regulatory requirements in the 2022 WDR is *objective compliance* with effective implementation of elements of the IEUA's Sewer System Management Plan (SSMP). The State Water Board emphasizes urgency on the structure, content, and organization of an agency-specific SERP for ensuring effective spill, containment, control, and mitigation[2].

The effectiveness of the SERP is measured by the following objectives, providing IEUA-specific translation of the corresponding State Water Board expectations for required effective spill responses:

- Implement effective and proactive spill containment, control, and mitigation
- Comply with State Water Board guidance on SERP implementation (see Attachment 1.1)
- Reduce future IEUA WDR violations, potential water quality impacts, and nuisances
- Meet/exceed all WDR compliance points in a systematic, streamlined, and transparent manner to facilitate use by Legally Responsible Official(s), Managers, and field staff
- Measure and improve IEUA SERP effectiveness (see Attachment 2)
- Expedite review by Water Board compliance inspectors and prepare IEUA for future regulatory audits of the SERP

These objectives provide the cornerstone for PART 1 (COMPLIANCE GUIDE) of this document, formulated by Fischer Compliance LLC around a streamlined process for objectively reviewing each applicable SERP compliance point, presenting the method(s) for how IEUA is complying with each requirement, and providing customized Key Performance Indicators (KPIs) for IEUA SERP for measuring effectiveness. PART 2 of this document includes streamlined information and procedures for IEUA first responders and field operations staff.

Table 1 below provides a summary of applicable Spill Emergency Response Plan requirements for full compliance with the WDR.

[1] See Order No. 2022-0103-DWQ

[2] See Order No. 2022-0103-DWQ, Attachment D (page D-2) which states *"the State Water Board or a Regional Water Board may consider the Enrollee's efforts in implementing an effective Sewer System Management Plan to prevent, contain, control, and mitigate spills when considering Water Code section 13327 factors to determine necessary enforcement of this General Order."*

Table 1 - Summary of Applicable Spill Emergency Response Plan Requirements

Compliance Point	WDR Section	Page	Regulatory Requirements
1	Spec. 5.7	22	• Allocate necessary resources for spill responses
2-1	5.12	23	• Update and Implement SERP within 6 months of 2022 WDR adoption date (6/5/2023); certify SERP up to date in Annual Report)
2-2	5.12	24	• Targets and measures for protection of public health and environment
2-3	5.12	24	• Timely spill responses, minimized impacts and nuisances by stopping, intercepting, recovering, cleaning publicly accessible areas, preventing toxic discharges to waters of the State
3	5.13	24	• Comply with Notification, Monitoring, Reporting, Recordkeeping requirements
4	ATT D-3	D-4	• Collaborate with storm drain agencies and ensure easement accessibility agreements for locations requiring operations
5-1	ATT D-4	D-5	• SERP training and practice drills
5-2	ATT D-4	D-4.4	• Inventory of sewer system equipment/identification of critical replacement and spare parts
6-1	ATT D-6	D-6	• Ensure Training/Implementation of SERP for staff and contractors
6-2	ATT D-6	D-6	• Address Emergency Operations/Traffic Control
6-3	ATT D-6	D-6	• Implement technologies, practices, equipment, coordination
6-4	ATT D-6	D-6	• Conduct Post-spill assessments
6-5	ATT D-6	D-6	• Annually review/assess effectiveness of SERP/update
see 2-1 above	ATT D-6	D-6	• Spill Emergency Response Plan/prompt detection/response
see 3 above	ATT D-6	D-6	• Notifications (primary responders, agencies)
see 3 above	ATT D-6	D-6	• Notifications (other potentially affected agencies)
see 3 above	ATT D-6	D-6	• Comply with WDR Att. E1 requirements
see 2-3 above	ATT D-6	D-6	• Containment, minimize/prevent spills to waters of state and drainage conveyances
see 2-2 above	ATT D-6	D-6	• Minimize public health and environmental impacts
see 2-2 above	ATT D-6	D-6	• Remove sewage from drain conveyance
see 2-2 above	ATT D-6	D-6	• Clean spill area/drain conveyance
see 4 above	ATT D-6	D-6	• Implement pre-planned coordination and collaboration with storm drain agencies
see 3 above	ATT D-6	D-6	• Document and report spill events

Compliance Evaluation

For preparing the SERP, an onsite compliance evaluation inspection was completed of the IEUA's existing spill prevention, containment, control, and mitigation effectiveness[3]. This included review of IWRD's existing Overflow Emergency Response Plan (OERP), spill prevention/reduction strategies, field practices, data collection approach, critical spare parts/inventory, and field staff training. In addition, the inspection included review of data in the State Water Board's "California Integrated Water Quality System" (CIWQS[4]) including agency spill response metrics and benchmarks (see Table 2 below for details).

Table 2 – IEUA spill data and compliance benchmarks

Element	Benchmarks
• Spill Response Metrics (agency notification - operator arrival)	0.88 hours (averaged, 2018-2023) 4.0 hours max (2018-2023)
• Notification Compliance (Category 1 spill notification to Cal-OES >2 hours)	1 violation (2018-2023)
• Draft Reporting Compliance (Category 1 spills within 3 business days)	0 violations (2018-2023)
• Spill Recovery (%) (2018-2023)	Cat 1=7% Cat 2= 39% Cat 3=36%

SERP Effectiveness

For facilitating review, assessment, and measurement of SERP effectiveness, Key Performance Indicators (KPIs) were generated for facilitating annual review, assessment, and update of the SERP for improving its effectiveness (see Attachment 2).

[3] See Order No. 2022-0101-DWQ, Provision 6.1.6 (Water Boards' considerations for discretionary enforcement purposes)
[4] CIWQS, publicly available at:
https://ciwqs.waterboards.ca.gov/ciwqs/readOnly/PublicReportSSOServlet?reportAction=criteria&reportId=sso_main

COMPLIANCE POINT #1

1-1 Regulatory Requirement

WDR Section	Summary of Requirements
Specif. 5.7 (p22)	• Allocate necessary resources for spill responses

1-2 Compliance

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP.

- For additional details on resources and implementation, see IEUA SSMP, Elements II (Organization), IV (O/M), and VI (Emergency Response Plan).

1-3 Effectiveness

- For further improving SSMP implementation and effectiveness, the IEUA has established 65% if its field staff holding CWEA collection system maintenance certifications[5].

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #1.

[5] California Water environmental Association (CWEA), https://www.cwea.org/certification/

COMPLIANCE POINT #2-1

2-1-1 Regulatory Requirements

WDR Sections	Summary of Requirements
• Specif. 5.12 (pgs23-24)	• Update and Implement SERP within 6 months of 2022 WDR adoption date (6/5/2023) • Certify the SERP up to date in the Annual Report
• ATT D-6 (pgD-6)	• Prompt detection and response to spills to reduce spill volumes and collection information for prevention of future spills. • Containment, minimize/prevent spills to waters of state and drainage conveyances

2-1-2 Compliance

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP.

- To enhance SERP effectiveness and early detection of potential spills, the IEUA has developed and is implementing Mutual Aid Agreements with its neighboring collection systems agencies within its regional service area. For additional proactive measures, IEUA purchased and has deployed individual electronic manhole level sensor monitors for proactive monitoring and alarms for high flows throughout the collection system.

- For additional details demonstrating compliance, refer to the IEUA Spill Response Field Guide.

2-1-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #2-1.

COMPLIANCE POINT #2-2

2-2-1 Regulatory Requirements

WDR Section	Summary of Requirements
• Specif. 5.12 (p24)	• Targets for protection of public health and the environment
• ATT D-6 (pgD-6)	• Minimize public health and environmental impacts • Remove sewage from drain conveyance • Clean spill area/drain conveyance

2-2-2 Compliance

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP.

- For additional details demonstrating compliance, refer to the IEUA Spill Response Field Guide.

2-2-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #2-2.

COMPLIANCE POINT #2-3

2-3-1 Regulatory Requirements

WDR Section	Summary of Requirements
• Specif. 5.12 (p23-24)	• Timely spill responses, minimized impacts and nuisances by stopping, intercepting, recovering, cleaning publicly accessible areas, preventing toxic discharges to waters of the State
• ATT D-6 (pgD-6)	• Containment, minimize/prevent spills to waters of state and drainage conveyances

2-3-2 Compliance

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP.
- For additional details demonstrating compliance, refer to the IEUA Spill Response Field Guide.

2-3-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, see Attachment 2, Compliance Point #2-3.

COMPLIANCE POINT #3

3-1 Regulatory Requirements

WDR Section	Summary of Requirements
• Spec. 5.13 (p24) • ATT D-6 (pD-6)	• Comply with Notification, Monitoring, Reporting, Recordkeeping requirements • Notifications (primary responders, agencies) • Notifications (other potentially affected agencies) • Comply with WDR Att. E1 requirements and document and report spill events

3-2 Compliance

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP.

- IUEA) contact information, 951-675-1131, is on their website https://www.ieua.org/everything-water/ssmp/. In addition, IEUA uses several social media sites to disseminate agency news and showcase its programs.

- IEUA receives calls for service in multiple ways, but mainly through public observation and notification. Administrative staff will answer calls for assistance during business hours, and a series of questions are asked of the caller to determine the potential problem. The Administrative staff forwards the call information and a service request to the Manager of Operations and Maintenance, who will dispatch staff for immediate response.

- After-hours emergency calls will use the same contact information for business hours, except the call is automatically forwarded to the On-Call Worker's cellular phone. The on-call worker will gather information for the call, then respond and asses the caller's concerns.

- IEUA monitors their wastewater lift stations through a supervisory control and data acquisition (SCADA) system. The SCADA system monitors the lift stations 24 hours a day, seven days a week. In addition, the SCADA system is programmed to send an alarm to notify IEUA staff when the station is not operating as intended or a high-level alarm is received.
- IEUA conducts extensive research for its spills for ensuring accurate volume estimations prior to the Legally Responsible Official (LRO) certifying spill reports in CIWQS. This includes an internal GIS report system completed for each spill event/debriefing (see agency files for examples and details).

- For additional details demonstrating compliance, refer to the IEUA Spill Response Field Guide.

3-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #3.

COMPLIANCE POINT #4

4-1 Regulatory Requirements

WDR Section	Summary of Requirements
• ATT D-3 (pD-4)	• Procedures: Collaborating with storm drain agencies
• ATT D-6 (pD-6)	• Implement pre-planned coordination and collaboration with storm drain agencies and other utilities/departments prior to, during and after a spill.

4-2 Compliance

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP.

- IEUA coordinates on an ongoing basis with stormwater agencies throughout its service area for pre-planned coordination/collaboration for spills.

- IEUA utilizes the following publicly-available resources for its assessment of spills and collaboration with outside agencies (wastewater, water, stormwater, etc): USGS mapping tool with watershed and topography information[6], California Board Basin Plan Beneficial Use Viewer tool,[7] and the State Water Board eWRIMS tool[8].

- For additional details demonstrating compliance, refer to the IEUA Spill Response Field Guide.

4-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #4).

[6] See https://apps.nationalmap.gov/viewer/
[7] See https://gispublic.waterboards.ca.gov/portal/apps/webappviewer/index.html?id=116f7daa9c4d4103afda1257be82eb16
[8] See https://waterrightsmaps.waterboards.ca.gov/viewer/index.html?viewer=eWRIMS.eWRIMS_gvh#

COMPLIANCE POINT #5-1

5-1-1 Regulatory Requirement

Page #(s)	WDR Section	Summary of Requirements
Page D-5	ATT D-4.3	• SERP training and practice drills

5-1-2 Compliance

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP including review of internal response procedures, practice drills, skilled volume estimation, and CIWQS reporting.

- For ensuring compliance, IEUA is conducting SERP training covering the following subjects for field staff:
  - Water Quality Monitoring
  - Pump Station Emergency Response Training and Drills
  - Spill Overflow Emergency Response/Spill Estimation
  - Bypass pumping

- For additional details demonstrating compliance, refer to the IEUA Spill Response Field Guide.

5-1-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #5-1.

COMPLIANCE POINT #5-2

5-2-1 Regulatory Requirement

Page #(s)	WDR Section	Summary of Requirements
Page D-5	ATT D-4.4	• Inventory of sewer system equipment/identification of critical replacement and spare parts

5-2-2 Compliance

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance with an inventory of system equipment, including identification of critical replacement and spare parts.

- For additional details demonstrating compliance, refer to the IEUA Spill Response Field Guide.

5-2-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #5-2.

COMPLIANCE POINTS #6-1

6-1-1 Regulatory Requirement

Page #(s)	WDR Section	Summary of Requirements
Page D-5	ATT D-6	• Ensure training/implementation of SERP for staff and contractors

6-1-2 Compliance

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP.

- For additional details demonstrating compliance, refer to the IEUA Spill Response Field Guide.

6-1-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #6-1.

COMPLIANCE POINT #6-2

6-2-1 Regulatory Requirement

Page #(s)	WDR Section	Summary of Requirements
Page D-5	ATT D-6	• Address Emergency Operations/Traffic Control

6-2-2 Compliance/Effectiveness

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP.

- For additional procedures, refer to the IEUA Spill Response Field Guide.

6-2-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #6-2.

COMPLIANCE POINT #6-3

6-3-1 Regulatory Requirement

Page #(s)	WDR Section	Summary of Requirements
Page D-5	ATT D-6	• Address Emergency Operations/Traffic Control

6-3-2 Compliance

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP.

- For additional details demonstrating compliance, refer to the IEUA Spill Response Field Guide.

6-3-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #6-3.

COMPLIANCE POINT #6-4

6-4-1 Regulatory Requirement

WDR Page #(s)	Section	Summary of Requirements
Page D-5	ATT D-6	• Conduct Post-spill assessments

6-4-2 Compliance

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP.

- For additional procedures, refer to the IEUA Spill Response Field Guide.

6-4-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #6-4.

COMPLIANCE POINT #6-5

6-5-1 Regulatory Requirement

WDR Page #(s)	Section	
Page D-5	ATT D-6	• Annually review/assess effectiveness of SERP/update

6-5-2 Compliance/Effectiveness

- The IUEA Executive Manager of Operations/AGM is responsible for ensuring full compliance through implementation, review, and training on the updated SERP.

- For additional details demonstrating compliance, refer to the IEUA Spill Response Field Guide.

6-5-3 Effectiveness

- For tracking ongoing operational performance metrics required for conducting its annual review/assessment of the SERP, IEUA utilizes Attachment 2, Compliance Point #6-5.

LIST OF ATTACHMENTS

(These attachments are designed for assisting agencies in complying with the Statewide Waste Discharge Requirements General Order for Sanitary Sewer Systems (Order No. 2022-0103-DWQ)

PART 2 (FIELD GUIDE)

LIST OF TABLES

1.0 RESPOND AND ASSESS

The response begins upon notification of the potential spill. The task sequence may vary depending on the circumstance(s) encountered, and the First Responder shall exercise the best judgment while responding to and mitigating the spill's effects. The first responder shall contact their supervisor for direction as appropriate. The First Responder's Goals are to:

- Prevent, Contain, Control, and Mitigate.
- Safely respond to the site as quickly as possible. IEUA's response goal to a reported spill is 1 hour.
- Thoroughly assess to determine the responsibility, if additional resources are needed, and the best course of action to control and mitigate the spill.
- Collect all required data and document on forms provided.

A. Upon Arrival:

   i. Document the "Arrival Time" on the Sewer Spill Response Field Report

   ii. Take a 10-second video of the spilling structure (if currently active)

   iii. Take photos of the affected area

B. Assess and Determine Responsibility. Is the problem within the IEUA owned/operated sewer system?
   i. Determine the source of the spill, the spill category and start internal notifications as appropriate. If the spill is a Category 1 or 2, immediately notify the supervisor.
   ii. Determine additional resources and personnel needed including potential mutual aid if necessary.
   iii. Attempt to contain or divert the spill. Block, plug, or cover all storm drain inlets in the immediate area to redirect the spill to a containment area. Use the storm drain map to assess the direction of the sewage flow on the ground and the potential destination to help determine additional containment needs.
   iv. Setup traffic control measures to keep pedestrians and pets away from the affected area(s)

C. Is the problem due to another agency's facility?
   i. Inform the customer the spill is not IEUA responsibility, and provide them with the responsible agency contact information.
   ii. Attempt to contain the spill and keep the public out of harm's way until the agency's personnel arrive.
   iii. Additionally, contact the agency and inform them of the problem, and offer Mutual Aid Assistance (see Table 3)

D. Is the problem due to a privately-owned facility?
   i. Advise the owner/manager to stop all water use in the building or facility.
   ii. Explain that the cause of the spill is in the portion that IEUA does not maintain or perform work on

iii. If the property owner/ manager is unwilling to address the cause of the spill, contact your Supervisor to discuss whether Code Enforcement or County Environmental Health should be notified
iv. In addition, the first responder should call their Supervisor and discuss or determine if IEUA will clear the blockage or recommend that the owner/manager call a plumbing service. If IEUA decides to clear the blockage, track your time and material for billing purposes.
v. If IEUA determines not to clear the blockage, assist with containment, if necessary, to prevent the spill from entering a DCS. Again, track your time and materials used for billing purposes.

E. Is there a backup in a home or building caused by a failure in an IEUA main?
   i. Once the blockage has been cleared, the first responder will call the Manager of Facilities and Water System Programs to inform them of the backup.
   ii. Recommend the customer keep children and pets out of any affected areas.
   iii. IEUA will support cleanup if the resident requests IEUA assistance. IEUA has contracts with the following contractor:
      i. SERVPRO of Chino 909-548-3191
      ii. SERVPRO of Northeast Ontario 909-390-0238
   iv. After explaining the concerns with sewer spills and contamination and offering clean-up services to the resident, if the resident refuses clean-up services from IEUA, politely ask them to sign the Declination of Cleaning Services form.
   v. Additionally, the resident/owner can decide to clean up the spill and file a claim with the IEUA.
F. Document activities and findings on the Spill Response Field Report

2.0 SPILL CATEGORIES

WDR General Order 2022-0103-DWQ Section 5.13.1

Individual spill notification, monitoring, and reporting must be in accordance with the following spill categories:

Category 1 - is 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;
- A drainage conveyance system that discharges to surface waters when the sewage is not fully captured and returned to the sewer system;
- Any spill volume not recovered is considered discharged to surface water unless the drainage conveyance system discharges to a dedicated stormwater infiltration basin or facility;
- A spill from an Agency owned and/or operated lateral that discharges to a surface water is a category 1 spill

Category 2 - is a spill of 1,000 gallons or greater from or caused by a sanitary sewer system regulated under this general Order that does not discharge to a surface water.

- A spill of 1,000 gallons out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 2 spill

Category 3 - is a spill of 50 gallons and less than 1,000 gallons from or caused by a sanitary sewer system regulated under this general Order that does not discharge to a surface water.

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

Category 4 - is a spill of less than 50 gallons from or caused by a sanitary sewer system regulated under this 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.

3.0 CONTAIN AND MITIGATE

WDR General Order 2022-0103-DWQ Section 5.12 and Section D-6, 6.6 & 6.7

Containment of a spill is one of the primary ways to mitigate the effects of the spill. Immediately cover or plug storm drain inlets to divert sewer flow to the containment location. Containment of a spill becomes increasingly difficult once the overflow reaches a drainage conveyance system or a waterway. The quicker the source and extent of the spill can be determined, and the spill contained and/or controlled, the less the impact on the environment and public health. The first responder's decisions should be based on the best action to mitigate the spill's impacts and prevent discharge to surface waters.

Multiple techniques have been identified to contain the spill depending on the circumstances, spill category, and material available. Table 1 lists possible containment options for field crews in no particular order.

Table 1 - Containment Strategies

Location	Strategies for Containment
Curb & Gutter	Create a berm or dam using the following: • Rubber Berm • Dry Sweep • Dirt • Sandbags • Deploy Absorbent Bags
Open Space	• Hand-Dig a trench to contain the spill • Create Sandbag Dam • Create a berm to divert the sewage to a natural low point
Lift Station	• Vacuum retrieve from the wet well using Hydro-Vac • Establish Bypass Operations
Drainage Channel	• Create a Dam using sandbags or dirt • Use vacuum retrieval if accessible by hydro-vac
Strom Drain	• Block inlets using rubber mats and/or sandbags • Plug manhole outlets using pneumatic plugs or sandbags • Plug outfall manhole to prevent discharge into the environment

Location	Strategies for Containment
Backup In Building	• Attempt to remove cleanout caps to allow the sewage to discharge outside the building • Establish containment using the most effective method from above
Creeks/Streams (Low flow only)	• Create Sandbag Dams • Install a silt fence to contain floating solids • Contact the local health department or Fish and Wildlife for direction NOTE: Containment attempts should not negatively impact aquatic life

4.0 EMERGENCY SYSTEM OPERATIONS

WDR General Order 2022-0103-DWQ Section D-6, 6.5

IEUA first responders may need to set up temporary traffic control to protect the public's health and safety in the event of a street collapse or undermining of a roadway. In addition, temporary traffic control allows crews responding to safely contain and clear the blockage and prevent sewage from further dispersing by vehicular traffic. Multiple guides provide information on temporary traffic control, including the Cal Trans Work Area Traffic Control Handbook (WATCH), or the Manual on Uniform Traffic Control Devices (MUTCD). However, temporary traffic control shall be set up based on the agency's training guidelines. Finally, responding crews shall use temporary traffic control devices or barriers to divert the public from contact with the spill.

5.0 CORRECT CAUSE AND RESTORE FLOW

Correcting the cause and restoring flow depends on the type of IEUA infrastructure the spill is discharging from.

Mainline- If the blockage is in the main, it will be between a manhole with little to no flow and a manhole surcharging or spilling. Response crews should set up the hydro-vac or jetter truck on the dry manhole, downstream from the surcharged manhole, to clear the blockage and restore flow. Once the blockage has been relieved, monitor the mainline flow to ensure the blockage doesn't reoccur downstream. If it is difficult to remove the blockage, increase containment or initiate bypass pumping. Request additional assistance to CCTV inspect the line to assess the problem. If needed, contact your supervisor for assistance.

Sewer Lift Station- If the station is equipped with an alarm screen, check alarm status for indication of problem. If the station has no power, contact Southern California Edison to determine if they are aware of the outage, and a estimation of when service will be restored. Determine the retention time remaining in the wetwell and sewer system, bypass pumping may be necessary. If the first responder feels that a hydro-vac will sustain the flow coming into the station, mobilize one immediately. If power is present, but pumps are not operating, switch the HOA switch to hand. If the pumps start, monitor wetwell levels and control with the pump controls. If pumps will not operate in the hand position, mobilize additional staff for by-pass pumping of the station. Follow agency procedures for notification of Qualified Electrical Worker or Instrumentation & Control personnel.

Force Main – When responding to a broken force main, response personnel should immediately shut down the pumps at the lift station affecting the force main and apply lockout - tagout measures to ensure the pumps remain off. The first responder should establish the remaining storage in the wet well and collection system, then contact the necessary crews to repair the main, set up bypass pumping, or utilize vacuum trucks to control the wet well levels and prevent an additional spill from occurring.

6.0 SPILL SPECIFIC MONITORING

WDR General Order 2022-0103-DWQ Section D-6, 6.3 & E-1, 2.1

The enrollee shall visually assess the spill locations and spread using photography, a global positioning system (GPS), or other best available tools. In addition, a best practice would be to provide a sketch of the spill spread and dimensions specific to the spill. In the sketch, indicate the spill's final destination or containment point. The enrollee shall document the spill locations, including;

Photography and GPS coordinates for;

- The system location where the spill originated. If multiple spill appearance points exist, use the point closest to the spill origin;
- Include GPS coordinates for the spill destination or containment point if available

Photography for:

- Drainage conveyance system entry locations
- The locations of discharge to surface waters, if applicable
- The extent of the spread, and
- The location(s) of the spill clean up

7.0 INITIATE SPILL CLEANUP

WDR General Order 2022-0103-DWQ Section 5.12 & Section D-6, 6.9

Recovery and thorough cleanup are necessary for all sewer spills. When recovering spills, all solids and materials should be recovered and removed from the site, and every effort should be made to recover as much of the SSO as possible. Disinfection of contaminated soil or drainage ways is only performed when directed by San Bernardino County Environmental Health or the CA Department of Fish and Wildlife

Procedures for cleaning affected areas after a spill are as follows:

A. Back up in Building
   1. Once the blockage has been cleared, the first responder will call the Manager of Facilities and Water System Programs to inform them of the backup.
   2. Recommend the customer keep children and pets out of any affected areas.
   3. IEUA will support cleanup if the resident requests IEUA assistance. IEUA has contracts with the following contractor:
      i. SERVPRO of Chino 909-548-3191
      ii. SERVPRO of Northeast Ontario 909-390-0238

B. Street, Curb or Gutter or Hardscape
   i. Remove all debris and solids with broom, shovels and wash down water.
   ii. Before removing any contaminated soil and plants, photograph the area and speak to the property owner.
   iii. Wash pavement, curb and gutter area, with the high-pressure wand, then vacuum all wash water with a hydro-vac.

C. Open Area/ Landscape
   i. In an open area that is primarily dirt, response crews shall use either a hydro-vac vacuum nozzle, or dig and remove dirt until a dry layer is visible.
   ii. If the area is a grass landscaped area, flush the spill area with copious amounts of water and vacuum the area thoroughly.

8.0 REMOVE SEWAGE FROM DRAINAGE CONVEYANCE

WDR General Order 2022-0103-DWQ Section 5.12 & Section D-6, 6.8 & 6.9

Response crews shall remove all sewage that has entered the drainage conveyance system by vacuuming all water, debris, solids, and paper in the drainage conveyance system. Photographs must be taken to verify the conditions before and after cleaning activities. With containment still in place, flush the affected area with water to the containment location and vacuum water and debris. IEUA determines the condition of the storm drain pipe when deciding to hydro-jet. If the pipe condition has deteriorated to the point that damage to agency equipment may result, flushing to the containment point is the best option. Once thoroughly cleaned, remove the containment measures and flush and vacuum the remaining area, capturing all water and returning it to the sanitary sewer system.

9.0 REGULATORY NOTIFICATION

WDR General Order 2022-0103-DWQ Section D-6, 6.1 & 6.2

If a spill that discharged in or on the waters of the State or discharged to a location where it will probably be discharged to the waters of the State, IEUA shall notify the Office of Emergency Services (OES) and obtain a control number as soon as possible, but no later than 2 hours after becoming aware of the discharge; and notification can be provided without substantially impeding cleanup or emergency measures. Table 2-3 provides the internal and external contacts for IEUA to aid in regulatory notification and mutual aid.

Table 2 - Agency Contact Information

Group	Name/Title	Number	Notes
IEUA	Lucia Diaz Manager of Facilities and Water System Programs	909-342-2365	LRO
IEUA	Ken Tam Manager of Environmental Services Resources	909-993-1917	LRO
IEUA	Pietro Cambiaso Manager of Compliance and Sustainability	909-732-3397	LRO
IEUA	Warren Green Manager of Contracts and Procurement	909-993-1709	Insurance/Risk support
IEUA	Ed Makowski Collections System Supervisor	909-497-4934	STAFF
IEUA	Lucia Diaz Manager of Facilities and Water System Programs	909-342-2365	LRO

Table 3- Regulatory Agency Notification

Agency	Number	Notes
California Office of Emergency Services (OES)	(800) 852-7550	Obtain a control number and contact name
Regional Water Quality Control Board (RWQCB)	951-782-4130 RB8SpillReporting@waterboards.ca.gov	Leave a voicemail with date and time. Send follow up email.
San Bernardino County Environmental Health	800-782-4264 - Business Hours 800-472-2376 - After Hours	
California Department of Fish and Wildlife	909-484-0167 AskRegion6@wildlife.ca.gov	Guidance for Sensitive Riparian areas
Mutual Aid Contact number provided is the agency on-call number	Agency	Contact Information
	Cucamonga Valley Water District	909-987-2591
	City of Chino	909-628-1234 (Police Dispatch)
	City of Chino Hills	909-364-2860
	City of Fontana	909-721-8770
	City of Montclair	909-905-0410
	City of Ontario	909-721-7246
	City of Upland	909-296-0133
	Jurupa CSD	951-685-7434
	City of Pomona	909-772-4105

10.0 NOTIFICATION AND REPORTING

WDR General Order 2022-0103-DWQ Section D-6, 6.3

The notification requirements of this section apply to all spills resulting from a failure or blockage in the IEUA's owned and /or operated sanitary sewer system regulated under this Order. Table 4 aids field staff, data submitters, and the LRO(s) with the timeline requirements for notification of regulatory agencies and the submittal of draft and certified reports into CIWQS.

Table 4 - Monitoring and Reporting

Spill Category	OES Notification	Monitoring	Draft Report	Certified Report
Category 1 Any volume of sewer discharging to surface water	• Within 2 hours of the Agency's knowledge of the spill of 1,000 gallons or greater discharging or threatening to discharge to surface waters. • Obtain a Control number from OES	• Conduct spill-specific monitoring. • Conduct water quality sampling within 18 hours of knowledge of a spill 50,000 gallons or greater to surface waters	• Due within 3 business days of knowledge or self-discovery of Category 1 spill.	• Due within 15 calendar days of the spill end date. Upon completion, the CIWQS will issue final spill event ID number. • Submit Technical Report within 45 calendar days after the spill end date for spill greater than 50,000 gallons. • Submit the Amended Report within 90 calendar days after spill end date

Spill Category	OES Notification	Monitoring	Draft Report	Certified Report
Category 2 Spills of 1,000 gallons or greater that do not discharge to waters of the State	• Within 2 hours of the Agency's knowledge of the spill of 1,000 gallons or greater discharging or threatening to discharge to surface waters. • Obtain a Control number from OES	• Conduct spill-specific monitoring.	• Due within 3 business days of the Agency's knowledge of the spill	• Due within 15 calendar days of the spill end date. Upon completion, the CIWQS will issue final spill event ID number. • Submit Amended reports within 90 calendar days of Certified Report due date
Category 3 Spills of 50 gallons to less than 1,000 gallons that don't discharge to surface waters	• N/A	• Conduct spill-specific monitoring.	• N/A	• Due 30 calendar days after the end of the month in which the spills occurred. After LRO certifies the spill, CIWQS will issue a spill identification number for each spill. • Submit Amended reports within 90 calendar days of Certified Report due date

Spill Category	OES Notification	Monitoring	Draft Report	Certified Report
Category 4 Spills less than 50 gallons that don't discharge to surface waters	• N/A	• Conduct spill-specific monitoring.	• N/A	• Within 30 calendar days after the end of the month in which the spills occurred, certify monthly the volume spilled and the total number of spills. • Upload and certify a digital report of all Category 4 spills in CIWQS by 1 FEB after the end of the calendar year in which the spills occur.

11.0 RECEIVING WATER SAMPLING

WDR General Order 2022-0103-DWQ Section E-1, 2.3

For sewage spills in which an estimated 50,000 gallons or greater are discharged into a surface water, IEUA shall conduct water quality sampling no later than 18 hours after IEUA's knowledge of a potential discharge to a surface water. In addition, IEUA shall gather information during and after the spill event to assess the spill magnitude and update its notification and estimated spill volume. The water quality sampling results will enable the division to prioritize areas of concern regarding water quality impacts

A. **Receiving Water Monitoring**

Through visual observation, spill volume-estimating and field calculation techniques, IEUA shall gather and document the following information for spills discharging into receiving waters:

1. Estimated spill travel time to the receiving water
2. For spills entering a drainage system, estimated spill travel time from point of entry to the point of discharge into receiving water
3. Spill travel time can be estimated the following ways:
    i. Travel time based on design slope of 2 fps
    ii. Timed water release in cleaned pipe over the distance traveled
4. Estimated spill volume entering the receiving water
5. Photographs of the following:
    i. Waterbody bank erosion
    ii. Floating matter
    iii. Water surface sheen (potentially from oil and grease)
    iv. Discoloration of receiving water
    v. Impact to the receiving water

B. **Water Quality Sampling and Analysis**

Surface water samples will be collected using a grab sample technique. Employees are required to wear new sterile powder free surgical gloves when collecting all samples.

1. ***Trigger for Sampling*** -Water quality sampling is required within 18 hours of initial SPILL notification for Category 1 Spills in which 50,000 gallons or greater are spilled to surface waters.
2. ***Safety and Access***- Water quality sampling should only be performed if it is safe to do so, and access is not restricted or unsafe. Unsafe conditions include traffic, heavy rains, slippery or steep creek banks, visibility issues, high flowing creeks and limited access due to soil conditions or poor terrain. If access restrictions or unsafe conditions prevent compliance with these monitoring requirements the IEUA shall provide documentation of the access restriction or safety hazards in the required report.
3. ***Where to Sample***- The IEUA must use best professional judgement to determine the upstream and downstream distances based on receiving water flow, accessibility to

waterbody banks and size of visible plume. Collect one sample each day for the duration of the spill. The IEUA shall collect receiving water samples from the following locations.

i. A point in the drainage conveyance system before the flow discharges into the receiving water. Label this sample DCS-001

ii. Point of Discharge into the receiving water where sewage initially enters the receiving water. Label this sample RSW-001

iii. Upstream Sample – A point in the receiving water, upstream of the point of sewage discharge. Label this sample RSW-001U

iv. Downstream Sample – A point in the receiving water, downstream of the point of discharge where the spill is fully mixed with the receiving water. Label this sample RSW-001D

Determine the water velocity present in the creek or body of water during the spill. Dropping debris in the creek, and timing how long the debris takes to travel a known distance is a good indicator of the water velocity present. Use this information to determine the next downstream sampling point. Multiply the water velocity by the spill duration to figure the furthest point downstream to sample.

C. **Sampling Procedure**

1. Put on required PPE (safety glasses and latex gloves)
2. **Collect Drainage Conveyance System Sample** – Sample at a point in the drainage conveyance system before the flow discharges into receiving waters
   - **a.** Label this sample DCS-001 and take a picture of the location you are sampling.
   - **b.** Avoid any debris or scum layer from the drainage system.
   - **c.** Fill the bottle against the direction of flow, replace the cap and secure the sample to avoid contamination.
   - **d.** Use a thermometer to measure the temperature of the sample, and record the results
3. **Collect Upstream Sample** - Move approximately 100 feet upstream of the source.
   - **a.** Label the bottle RSW-001U and take a picture of the location you are sampling.
   - **b.** Sample away from the bank and avoid any debris or scum layer from the surface.
   - **c.** Fill the bottle against the direction of flow, replace the cap and secure the sample to avoid contamination.
   - **d.** Use a thermometer to measure the temperature of the upstream sample location and record the results.
4. **Collect Point of Discharge Sample-** Move approximately 10 feet downstream of the source location.
   - **a.** Label the bottle RSW-001 and take a picture of the location you are sampling.
   - **b.** Sample away from the bank and avoid any debris or scum layer from the surface.
   - **c.** Fill the bottle against the direction of flow, replace the cap and secure the sample to avoid contamination.
   - **d.** Use a thermometer to measure the temperature of the source sample location and record the results.

5. **Collect Downstream Sample –** Move approximately 100 feet downstream of the source.
    a. Label this sample RSW-001D and take a picture of the location you are sampling.
    b. Sample away from the bank and avoid any debris or scum layer from the surface.
    c. Fill the bottle against the direction of flow, replace the cap and secure the sample to avoid contamination.
    d. Use a thermometer to measure the temperature of the downstream sample 1, and record the results

D. **Required Water Quality Analyses** – All samples will be immediately transported to the nearest ELAP certified water quality laboratory for analysis. The sample analysis, at a minimum will include the following:
1. Ammonia
2. pH
3. Electrical Conductivity
4. Bacterial indicators, such as total and fecal coliform, enterococcus and e-coli, per the regional Basin Plan or as directed by SWRCB
5. Temperature

List Agency Specific Lab Names and contact information here.

E. **Equipment and Supplies** – The following items and PPE are required for sampling:
1. Cooler with Blue Ice
2. Sterile sampling bottles
3. Powder free latex gloves
4. Safety glasses
5. Marking pen
6. Field log forms

12.0 FINAL SPILL VOLUME ESTIMATION

WDR General Order 2022-0103-DWQ Section E-1, 2.3

The final spill volume estimation is critical for CIWQS reporting and determines whether additional reporting to regulatory agencies is required. Additionally, the Enrollee shall update its notification and reporting of estimated spill volume, including spill volume recovered, as further information is gathered during and after a spill event. To assess the approximate spill magnitude and spread, the enrollee shall estimate the total spill volume using updated volume estimation techniques, calibration and documentation for CIWQS reporting. The Agency has trained on the following methods of volume estimation.

A. **Measured Area/Volume** - The volume of most small spills that have been contained can be estimated using this method. The shape, dimensions, and depth of the contained wastewater are needed. This information is used to calculate the area and volume of the spills. Measured volume is not an appropriate estimation matrix if the spill occurs during a rain event.

B. **Flow Estimation Charts** – Overflow volume can be estimated by multiplying the overflow duration by the overflow rate. The overflow rate can be determined by pick hole or vent hole spill height, flow meter data, SCADA information, and pump data from lift stations.
C. **Upstream Connections/EDU -** This method can be used for overflows from residential properties when enough information has been gathered through interviewing the resident. Be clear with your questions and explanation for the interview. Only interview residents from the household contributing to the spill.

13.0 DOCUMENTATION OF SPILL EVENTS

WDR General Order 2022-0103-DWQ SectionD-6, 6.13

Inland Empire Utility Agency shall maintain records for each of the following spill-related events and activities:

A. Spill event complaint, including but not limited to records documenting how the IEUA responded to notifications of spills. Each complaint record must, at a minimum, include the following information:
    a. Date, time, and method of notification,
    b. Date and time the complainant first noticed the spill, if available,
    c. Narrative description of the complaint, including any information the caller provided regarding whether the spill has reached surface waters or a drainage conveyance system, if available,
    d. Complainant's contact information, if available, and
    e. Final resolution of the complaint;
B. Records documenting the steps and/or remedial action(s) undertaken by IEUA, using all available information, to comply with this General Order, and previous General Order 2006-0003-DWQ as applicable;
C. Records documenting how estimate(s) of volume(s) and, if applicable, volume(s) of spill recovered were calculated;
D. All California Office of Emergency Services notification records, as applicable; and
E. Records, in accordance with the Monitoring Requirements in this Attachment.

(For additional references, please refer to SERP PART 1 (COMPLIANCE GUIDE).

Appendix J: SSO Reporting, Chain of Communication and Response Matrix

PUBLIC WORKS DEPARTMENT
1370 North Benson Avenue
Upland, CA 91786-0460
Telephone (909) 291-2930
Facsimile (909) 291-2974

December 17, 2012

RIGHT OF ENTRY

This Right of Entry Agreement ("Agreement") is between:

Owner Name(s) _____

Property Address _____

Contact Number(s) _____

(collectively "Owner") and the City of Upland and its employees, contractors or agents (collectively "City"), and shall become effective as of the date of execution inserted below.

1. Owner grants to the City permission to enter upon the real property of Owner which is described above (the "Property"), for the limited purpose of performing those activities necessary to remove parkway tree(s) and/or root(s) and evaluate and reconstruct improvements adjacent to the City's right of way due to the tree roots intrusions. The legal description and the commonly known street address of the Property is set forth above and is incorporated as though fully set forth herein. This grant of right of entry is subject to the understandings, conditions, and agreements specified in the following paragraphs.
2. Owner warrants that Owner is the legal owner of the Property and has the right to grant the City permission to enter upon and perform the evaluation and reconstruction work on the Property as specified in this Agreement.
3. The City or the City's contractor shall provide Owner with 24 hour advance written notice prior to the City's or the City's contractor's entry upon the Property.
4. The City's or the City's contractor's evaluation and reconstruction activities on the Property shall be performed during regular business hours.
5. In the event that the Property is disturbed for any reason, the City and/or City's contractor will use its best reasonable and feasible effort to return the Property and all physical features and structures on the Property as nearly as possible to its pre-existing condition, at the sole expense of the City or the City's contractor.
6. This Agreement is the sole representation of the Agreement between the parties, and there are no oral agreements or representations between the parties hereto affecting this Agreement. This Agreement constitutes the entire Agreement between Owner and the City. No alteration or amendment to this Agreement shall be effective unless signed in writing by the Owner and the City.
7. This Agreement is intended to protect the value and desirability of the subject property. This Agreement shall run with the land and be binding to all parties having or acquiring any right, title, interest, or any part thereof, of the subject property, including the grantor, heirs, successors, and assigns. This Agreement shall inure to the

benefit of each present or future successor in interest of the subject property or any part thereof, or interest therein.

This agreement is temporary. It shall commence on the date of signing of this agreement and shall expire automatically when the City deems that all necessary project improvements, permit requirements, financial requirements, warranty periods, and mitigation measures have been fulfilled and the project is deemed complete.

OWNER(S):

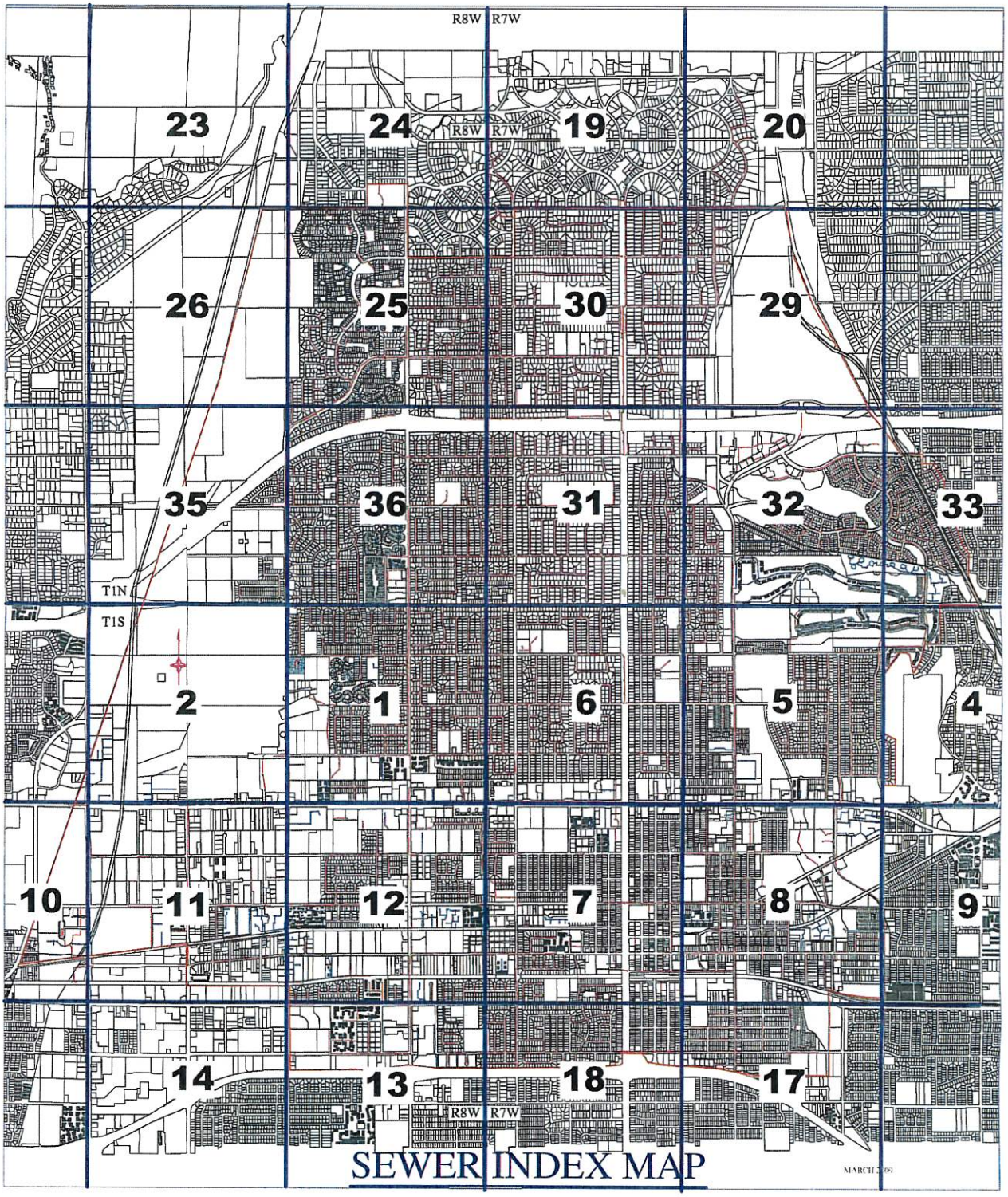
_____ _____

(Owner) Date

_____ _____

(Owner) Date

Appendix K: 24-Month Flushing Cycle Map


R8W
R7W
23
24
19
20
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25
30
29
35
36
31
32
33
T1N
T1S
2
1
6
5
4
10
11
12
7
8
9
14
13
18
17
R8W
R7W
SEWER INDEX MAP