

CITY OF ROLLING HILLS ESTATES
SEWER SYSTEM MANAGEMENT PLAN



2019

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ABBREVIATIONS/ACRONYMS

ACO	Accumulative Capital Outlay Program
CADD	Computer Aided Design and Drafting
CIWQS	California Integrated Water Quality System
CCTV	Closed-circuit television
CMCs	City Municipal Codes
CSMD	Consolidated Sewer Maintenance District
Districts	Sewer Maintenance Districts
FOG	Fat, Oil, and Grease
GIS	Geographic Information System
I/I	Infiltration Inflow
LACPW	Los Angeles County Public Works
LACO TITLE 20	Los Angeles County Code Title 20 – Utilities
LACO TITLE 28	Los Angeles County Plumbing Code – Title 28
MMS	Maintenance Management System
RWQCB	Regional Water Quality Control Board
SMD	Sewer Maintenance Division
SO&M	Sewer Operation and Maintenance
SSMP	Sewer System Management Plan
SSOs	Sanitary Sewer Overflows
SU	Sewage Unit
SWRCB	State Water Resources Control Board
WDRs	Waste Discharge Requirements

DEFINITIONS

Geographical Information System (GIS) – A spatial database system that is used to capture, store, display, and analyze information which includes various layers used by government officials. Examples of information found on a GIS database include feature layers for a sewer map such as sewer pipes, sewer manholes, etc. These feature layers would include information such as the pipe diameter, pipe material, pipe condition, and last date cleaned or repaired. Department Public Works GIS also contains base information such as streets and parcels.

Infiltration/Inflow (I/I) – Infiltration is generally considered to be extraneous water that enters the sewer system over longer periods of time such as groundwater seepage through cracks in the sewer. Inflow is generally considered to be extraneous water that enters the system as a direct result of a rain event such as through defects in the sewer. While it is impossible to control all I/I, it is certainly desirable to reduce I/I when cost-effective.

Lateral – The portion of sewer that connects a home or business with the mainline in the street.

Stoppage – A buildup of debris in the sewer, which stops the flow of wastewater and allows the water to back up behind the stoppage, sometimes causing an overflow. Also called blockage.

Blockage – A buildup of debris in the sewer, which stops the flow of wastewater and allows the water to back up behind the stoppage, sometimes causing an overflow. Also called a stoppage.

Wastewater Collection System – All pipelines, pump stations, and other facilities upstream of the headworks of the wastewater treatment plant that transport wastewater from its source to the wastewater treatment plant.

CITY OF ROLLING HILLS ESTATES SEWER SYSTEM MANAGEMENT PLAN (SSMP)

INTRODUCTION

On May 2, 2006, the State Water Resources Control Board (SWRCB) adopted Statewide General Waste Discharge Requirements (WDRs) and a Monitoring and Reporting Program (MRP) for sanitary sewer systems by issuing Order No. 2006-0003 and Order No. 2013-0058EXEC (revised) respectively (Appendix A). The regulations in the order were in response to growing public concern about the water quality impacts of sanitary sewer overflows (SSOs), particularly those that cause beach closures, adversely affect other bodies of water, or pose serious health and safety or nuisance problems.

Two major components of the WDRs require the following:

- (1) The owners/operators of publicly owned sewer collection systems, a mile long or greater, must apply for coverage under the WDRs.
- (2) The owners/operators must develop and implement a Sewer System Management Plan (SSMP) specific to the sanitary sewer system.

In accordance with the first element of the WDRs, the City of Rolling Hills Estates (City) filed a Notice of Intent Application form with the SWRCB on October 26, 2006. The City subsequently received a Username and Password for electronic access to the California Integrated Water Quality System (CIWQS) database. Within the database-reporting program, the City completed a "collection system questionnaire" and must periodically file all subsequent updates and all required SSO reporting.

In compliance with the second element, this document was prepared to meet the objectives contained in the WDRs order. The County of Los Angeles Consolidated Sewer Maintenance District (CSMD) provides operation and maintenance services for the City's sewer facilities; therefore, some components of the City's SSMP may be similar to those of the Sewer Maintenance Districts (Districts). This document is divided into 12 chapters, which closely align with the respective provisions contained in the WDRs. Every section or subsection of each chapter addresses one of the key elements of the SSMP directive.

This document, in conjunction with other existing agency programs referenced herein, constitute the City's SSMP. By implementing the procedures contained in this SSMP, the occurrence of SSOs should be minimized to the greatest extent practicable throughout the City's sanitary sewer collection system.

CHAPTER 1

GOALS AND ACTIONS

1.1 Goals

The goals of this SSMP are to ensure the following:

1. The City's sanitary sewer collection system is properly operated, maintained, and managed to reduce the frequency and severity of sanitary sewer overflows (SSOs) and their potential impacts on public health, safety, and the environment.
2. When SSOs occur, prompt action is taken to: identify, contain, and remove the cause; promptly report the event to appropriate regulatory authorities; and take measures such that the public is adequately and timely notified.
3. All SSOs, system deficiencies, and remedial actions taken are well documented.
4. The City's sewer system operators, employees, contractors, responders, and other agents are adequately trained and equipped to address an SSO event.
5. The City's sewer system is designed, constructed, and funded to provide adequate capacity to convey base and peak flows while meeting or exceeding applicable regulations, laws, and the generally accepted practices relative to sanitary sewer system operation and maintenance.

1.2 Actions

The actions to be taken to satisfy the SSMP are as follows:

1. Conduct a planned and scheduled maintenance program that will minimize the risk and occurrence of SSOs, in support of the SSMP goals.
2. When SSOs do occur, respond to the reported site in a timely manner and undertake feasible remedial actions to contain the overflow impacts, including stopping the flow from reaching the storm drain if possible.
3. Stop the overflow as soon as possible and limit public access to the overflow area to prevent public contact with any wastewater contamination.
4. Recover the overflow and return it to the sewer system and then clean up the contaminated area.

5. Gather and compile all pertinent information regarding the overflow event, investigate as necessary to determine probable cause, document findings, report to the appropriate regulatory agencies in a timely manner, and file the completed report.

CHAPTER 2

DESCRIPTION OF THE ORGANIZATION

2.1 Management

The City Council of the City of Rolling Hills Estates is the governing board of the City of Rolling Hills Estates elected directly by its citizens and responsible for setting City policy. The City Council is composed of five members who are elected at-large on a non-partisan ballot to serve four years in overlapping terms. City general elections are held on the first Tuesday in November of even-numbered years. Each year the Council selects one of its members to serve as Mayor.

Day-to-day municipal activities are directed by the City Manager, a professional administrator appointed by the City Council. The City Manager keeps the City Council advised of the City's financial condition and future needs and makes recommendations for consideration and action by the City Council.

The Public Works Department, under the supervision of the Community Development/Public Works Director, plans and maintains all phases of street operations including street sweeping and the maintenance of lighting, traffic signs and signals. The department has responsibility for supervising street-related capital improvement projects as well as all programs and activities associated with public transportation, trash and recycling collection, and stormwater pollution.

The Community Development/Public Works Director is responsible for administering the contract services for sewer system operation and maintenance with the Consolidated Sewer Maintenance Districts. The City's sanitary sewer collection system serves a population of approximately 8,100 residents and consists of about 33.8 miles of gravity sewer lines and three (3) pump stations. The City's local sewers discharge into the Sanitation Districts of Los Angeles County facilities for conveyance, treatment, and disposal.

The Community Development Department, under the daily supervision of the Planning Manager, and general oversight by the Community Development/Public Works Director, reviews and approves plans for development within the City, enforces subdivision and building regulations in residential and commercial areas and processes amendments to the Zoning Ordinance.

The Community Services Department includes the maintenance program for City recreational facilities and properties and all recreation services. Specifically, the Department's maintenance division is responsible for the upkeep of public parks, parkways and equestrian trails, flood control and other public facilities within the community. If there is imminent danger to the public health, public or private

property, or a release to the storm drain system or stream, then City maintenance services personnel will take prudent emergency action for containment of sanitary sewer overflows until the Los Angeles County Public Works arrive on scene.

2.2 Authorized Representative

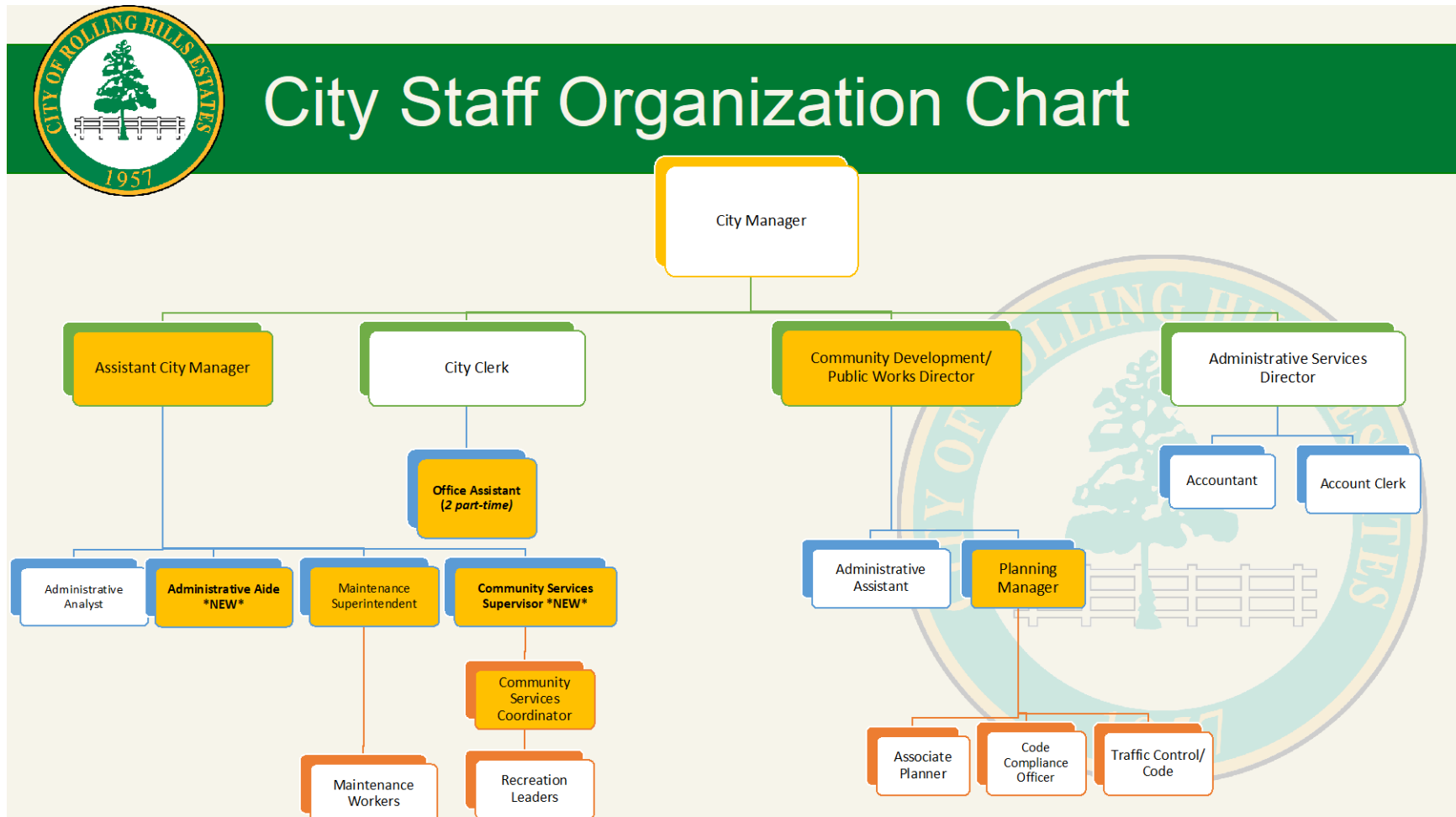
The City Manager and Community Development/Public Works Director in concert with designated Los Angeles County Public Works staff are the authorized representatives responsible for the execution of compliance actions required under the WDRs. This includes, but is not limited to, execution and certification of all reports and correspondence as required under the Order.

2.3 Organization Chart and Responsibilities

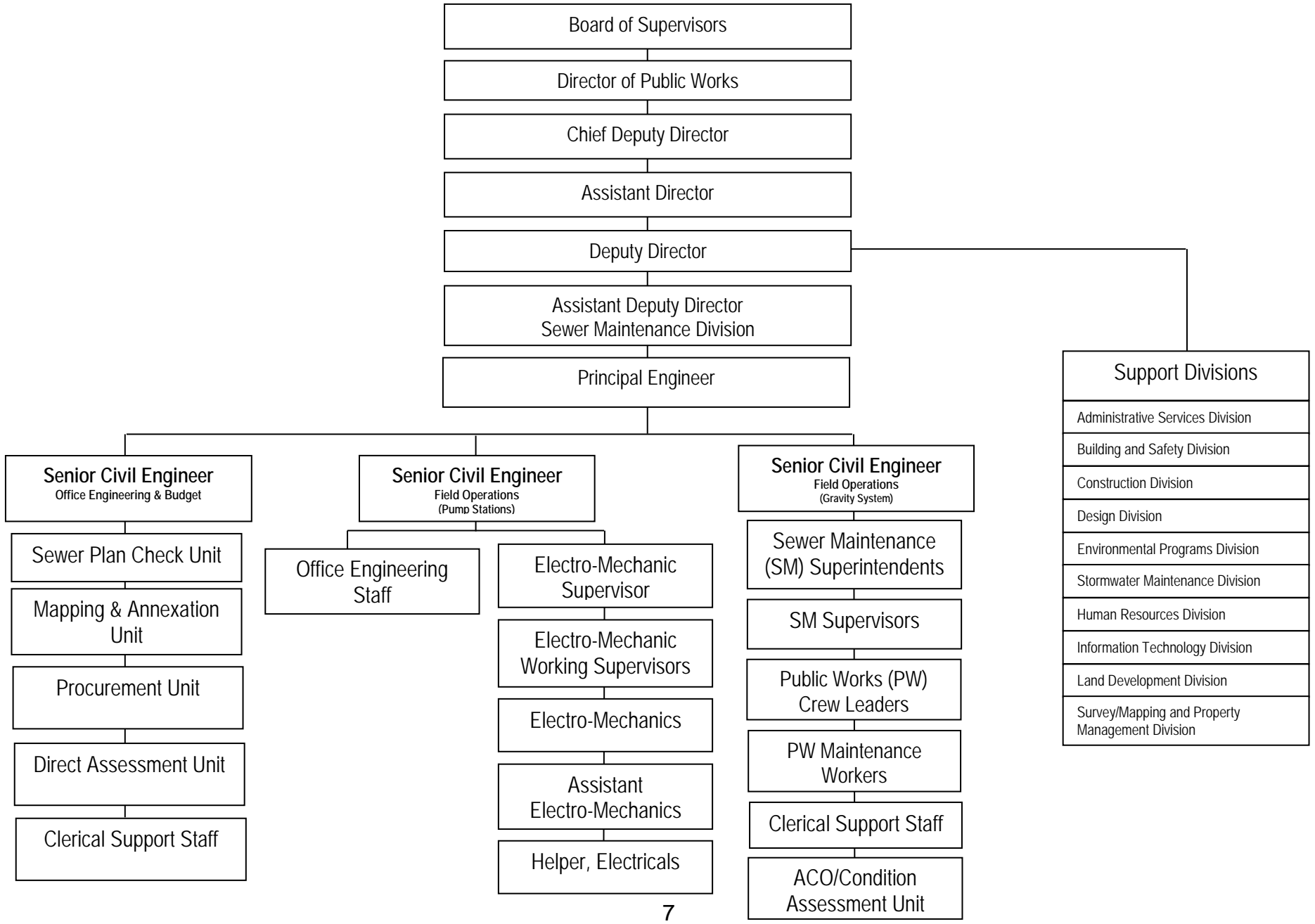
The organization chart showing the structure and relationship of the City and Los Angeles County Public Works administrative, management, and field positions relative to Sewer Operation and Maintenance (SO&M) is presented in Sections 2.3.1a, 2.3.1b, and 2.3.1c, respectively, and the descriptions of responsibilities and support are presented in Sections 2.3.2 and 2.3.3.

These personnel, in collaboration with Los Angeles County Public Works personnel, administer the City's sewer collection system operation, provide engineering evaluation of proposed and existing sewer facilities, administer preventive maintenance and sewer construction programs, and oversee the maintenance of sewer collection system facilities and related records and plans.

2.3.1a City of Rolling Hills Estates Organization Chart for Sanitary Sewer System Management



2.3.1b Sewer Maintenance Division Organization Chart



**2.3.1c ORGANIZATIONAL CHART WITH NAMES AND
PHONE NUMBERS**

ROLLING HILLS ESTATES

<u>Position</u>	<u>Name</u>	<u>Telephone</u>
City Manager	Greg Grammer	310-377-1577 x-101
Assistant City Manager	Alexa Davis	310-377-1577 x-111
Community Development/Public Works Director	David Wahba	310-377-1577 x-103
Maintenance Superintendent	Mike Goldsmith	310-378-4504
Code Compliance Officer	Cameron Hall	310-377-1577 x-104

SEWER MAINTENANCE DISTRICTS

Board of Supervisors		
Hilda L. Solis	Supervisor, First District	(213) 974-4111
Mark Ridley-Thomas	Supervisor, Second District	(213) 974-2222
Sheila Kuehl	Supervisor, Third District	(213) 974-3333
Janice Hahn	Supervisor, Fourth District	(213) 974-4444
Kathryn Barger	Supervisor, Fifth District	(213) 974-5555
Public Works		
Mark Pestrella	Director	(626) 458-4002
VACANT	Chief Deputy Director	(626) 458-4001
Shari Afshari	Deputy Director	(626) 458-4008
Sewer Maintenance Division		
William J. Winter	Assistant Deputy Director	(626) 300-3304
Martin Moreno	Principal Engineer	(626) 300-3312
Clerical Support Staff		
Violeta Roldan	Senior Secretary IV	(626) 300-3309
(Office Engineering & Budget)		
Nicholas Agbobu	Senior Civil Engineer	(626) 300-3382
Sewer Plan Check Unit		
Sandra Medina	Associate Civil Engineer	(626) 300-3363
Mapping & Annexation Unit		
Julie Zhu	Supervising Geographic Information System Technician	(626) 300-3366
Procurement		
Cynthia Phan	Financial Specialist III	(626) 300-3322
Direct Assessment Unit		
Linh La	Staff Assistant II	(626) 300-3340
Accumulative Capital Outlay/Condition Assessment Unit		
Alex Villarama	Civil Engineer	(626) 300-3374
(Field Operations – Pump Stations)		
Jeff Bouse	Senior Civil Engineer	(626) 300-3373
Kari Eskridge	Civil Engineer	(626) 300-3390
Mark Ramirez	Electro-Mechanic Supervisor	(626) 300-4682
Electro-Mechanics		
East/Central		
George Modlin	EM Working Supervisor	(626) 446-3271 (562) 941-7011
East/Central	Electro-Mechanics	(626) 446-3271
East/Central	Assistant Electro-Mechanics	(562) 941-7011
North		
Alfredo Duran	EM Working Supervisor	(661) 222-2569
North/West	Electro-Mechanics	(661) 222-2569
North/West	Assistant Electro-Mechanics	(661) 942-6042
North/West	Helper, Electricals	(661) 942-6042
South		
VACANT	EM Working Supervisor	(323) 233-2015
South	Electro-Mechanics	(323) 233-2015
South	Assistant Electro-Mechanics	(323) 233-2015
Field Operations – Gravity System		
Robert Swartz	Senior Civil Engineer	(626) 300-3367
Gohar Tsolakyan	Staff Assistant II	(626) 300-3325
Field Offices		
Central		
Mike Garcia	SM Superintendent	(562) 941-7011
Juan Alonso	SM Supervisor	(562) 941-7011
Central	PW Crew Leaders	(562) 941-7011
Central	PW Maintenance Workers	(562) 941-7011
Central	PW Laborers	(562) 941-7011
Central	Bricklayer	(562) 941-7011
Central	Sr. Equipment Maintenance Worker	(562) 941-7011
Willa Mar	Intermediate Typist-Clerk	(562) 941-7011

Susan Carmona	Intermediate Typist-Clerk	(562) 941-7011
East		
James Pryor	SM Superintendent	(626) 446-5227
Jim Vives	SM Supervisor	(626) 446-5227
Chris Peña	SM Supervisor	(626) 446-5227
East	PW Crew Leaders	(626) 446-5227
East	PW Maintenance Workers	(626) 446-5227
East	PW Laborers	(626) 446-5227
East	Bricklayer	(626) 446-5227
East	Sr. Equipment Maintenance Worker	(626) 446-5227
Chris Pussman	Senior Typist-Clerk	(626) 446-5227
Zamir Zyada	Intermediate Clerk	(626) 446-5227
South		
Paul Bradford	SM Superintendent	(323) 233-3330
Isaac Leal	SM Supervisor	(323) 233-3330
Capice Simms	SM Supervisor	(323) 233-3330
South	PW Crew Leaders	(323) 233-3330
South	PW Maintenance Workers	(323) 233-3330
South	PW Laborers	(323) 233-3330
South	Bricklayer	(323) 233-3330
South	Sr. Equipment Maintenance Worker	(323) 233-3330
Spencer Cottrell	Intermediate Clerk	(323) 233-3330
Marilyn Lamar	Intermediate Typist-Clerk	(323) 233-3330
North		
Tim Bohannon	SM Superintendent	(661) 942-6042
Deroald Dolittle	SM Supervisor	(661) 942-6042
North	PW Maintenance Workers	(661) 942-6042
North	PW Laborers	(661) 942-6042
North	Bricklayer	(661) 942-6042
North	Sr. Equipment Maintenance Worker	(661) 942-6042
Anita Carver	Senior Typist-Clerk	(661) 942-6042
Santa Clarita		
Tim Bohannon	SM Superintendent	(661) 942-6042
Jesse Cisneros	SM Supervisor	(661) 222-2569
Santa Clarita	PW Maintenance Workers	(661) 222-2569
Santa Clarita	PW Laborers	(661) 222-2569
Support Divisions		
Administrative Services Division		
Alma D. Martinez	Admin Deputy Director	(626) 458-4078
Building and Safety Division		
Hassan Alameddine	Asst. Deputy Director	(626) 458-6385
Construction Division		
Steve Burger	Asst. Deputy Director	(626) 458-3100
Design Division		
Hector Bordas	Asst. Deputy Director	(626) 458-7800
Environmental Division		
Coby Skye	Asst. Deputy Director	(626) 458-3500
Stormwater Maintenance Division		
VACANT	Asst. Deputy Director	(626) 458-4145
Human Resources Division		
Jeff Howard	Division Chief	(626) 458-2100
Information Technology Division		
Patrick Anderson	Division Chief	(626) 458-4108
Land Development Division		
Anthony Nyivih	Asst. Deputy Director	(626) 458-4900
Survey/Mapping & Property Management Division		
James T. Sparks	Asst. Deputy Director	(626) 458-7000

2.3.2 Description of Responsibilities

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

- City Council – Responsible for establishing new and amending existing ordinances and policies governing the municipal operations and the operation of the City's sanitary sewer system, including the approvals of all operation and maintenance contracts and agreements to protect the community's interest.
- City Manager – Responsible for the overall management and application of all legal and policy directives that relate to the City's activities, including the operation and maintenance of the City's sanitary sewer system. Under the City's municipal code 13.08.050, no person shall make any connection to any public sewer without first obtaining a permit to do so from the City Manager.
- Community Development/Public Works Director – Responsible for facilitating sewer collection system operation and maintenance activities through the contract with Los Angeles County Public Works, as the City's representative to the CSMD. Responsible for reviewing and approving plans for development within the City, enforcing subdivision and building regulations in residential and commercial areas and processing amendments to the Zoning Ordinance and for Code Administration. The Director designates an entity, either a private firm or the County Building & Safety office, to carry out the function of City Engineer in the review of sewer infrastructure to be constructed by private developers for ultimate acceptance into the CSMD.
- Administrative Authority or Director of Public Works – In accordance with the City's municipal code section 15.16.020, whenever the terms "Administrative Authority" or "Director of Public Works" are used in the Los Angeles County Plumbing code which has been adopted by the City, these terms mean the County Engineer of Los Angeles County or the City of Rolling Hills Estates' designated contract firm.
- Maintenance Superintendent – Responsible for the upkeep of public parks, parkways, and equestrian trails, the municipal stables, flood control, and other public facilities within the community. If there is imminent danger to the public health, public or private property, or a release to the storm drain system or stream associated with an SSO, then maintenance division personnel may take prudent emergency actions in the form of initial measures for containment until CSMD staff

arrives on the scene.

- Code Compliance Officer – Responsible for inspections and working with City Maintenance and Los Angeles County Public Works staff to correct violations and issue administrative citations.

2.3.3 City Divisions/Departments and Other Agencies

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

- City Manager & Administrative Services Departments – Responsible for procuring equipment and as-needed contract services for emergency sewer repair projects; printing and mailing of public education outreach program materials; procuring materials and supplies needed for the day-to-day operation and maintenance activities; accounting services; and training of personnel. Also responsible for investigating SSO-related claims and litigations against the City.
- Contract Building and Safety Division – Responsible for reviewing various building permit applications, their relationship to public easements and facilities, and issuing permits for sewer connections. Also, the enforcement of Plumbing Codes involving proper connection and discharge into the public sewer system and the property owner's maintenance of their respective sewer laterals between the structure served and the public mainline sewer.
- City Code Enforcement – Responsible for the enforcement of Health and Safety Codes regarding waste disposal, such as the Fat, Oil, and Grease (FOG) Control Program; point source control inspection of industrial and commercial waste and grease generating facilities; and investigation of cases of illicit discharge of chemicals, debris, etc., into the public sewer system. This is undertaken in concert with Los Angeles County Public Works, Environmental Programs Division, Industrial Waste Unit.
- Contract City Engineer – At the direction of the Community Development/Public Works Director, is responsible for preparing plans and specifications for sewer construction and rehabilitation projects, administration of contracts for accomplishing such projects, and emergency sewer repair projects. Also, responsible for subdivision or development project plan checks to ensure compliance with the City's standards for construction of new sewer collection systems. Plan checks sewer capacity studies to size proposed sewer lines and sets requirements to ensure adequate capacity in existing systems. Prepares

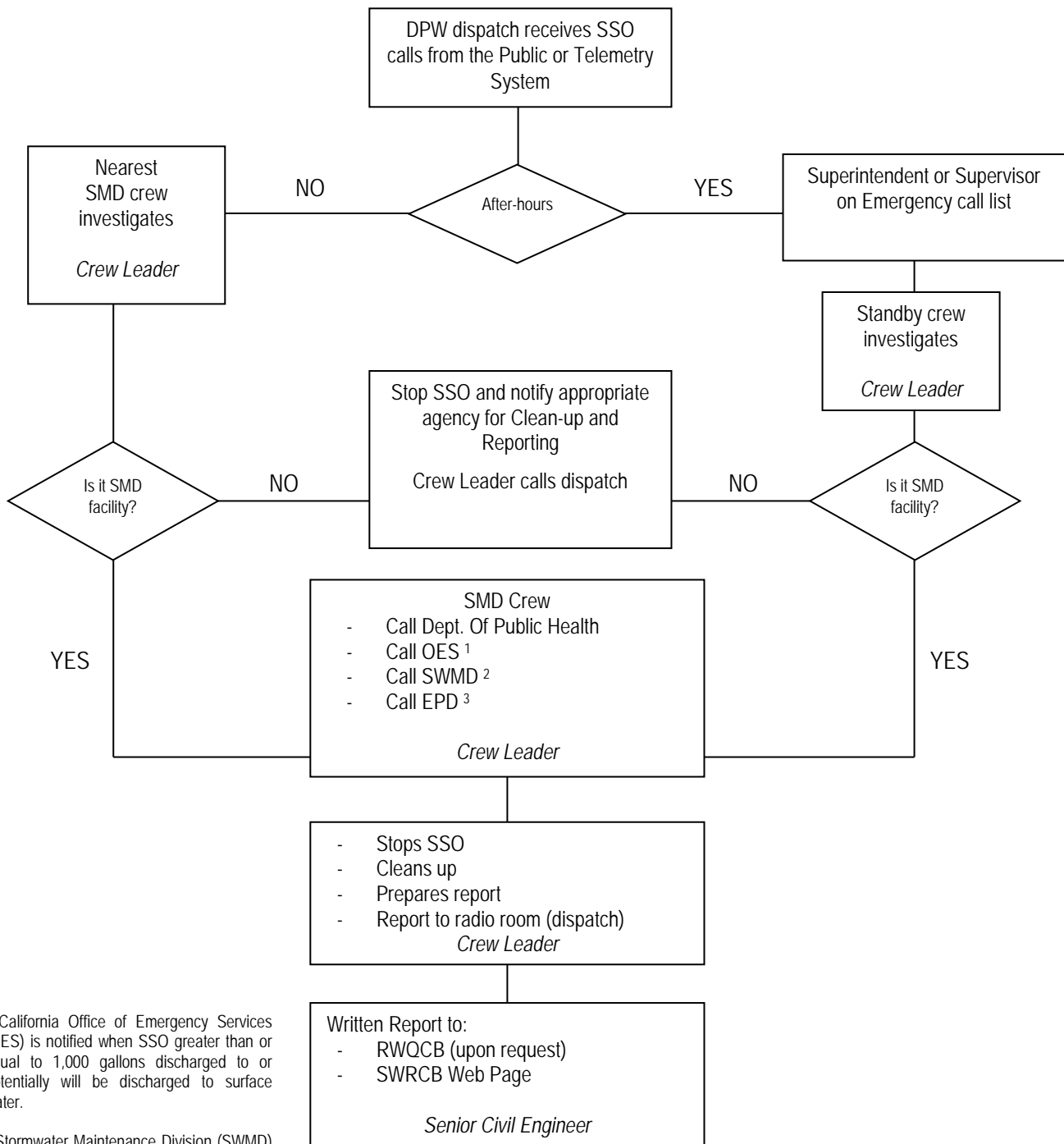
easement documents or identifies and procures access rights for public sewer facilities located within private properties.

- Los Angeles County Public Works – Sewer Maintenance and Environmental Programs Divisions provide critical services to the City to address the mandates of the WDRs. Sewer Maintenance Division is responsible for operational maintenance services of the City's sewer collection system, including cleaning, closed-circuit television (CCTV) inspection, manhole inspection, and repairs. Environmental Programs Division is responsible for implementing the City's industrial waste and FOG Control Programs, which includes permitting, inspection, and enforcement of illicit discharges to the public sewer system in concert with the City's Code Enforcement Division.
- County of Los Angeles Fire Department – Responsible for assisting with protecting the public in the event of an SSO that expands into high-use public travel ways and/or those that reach storm drains or water courses and spread the effect of public risk to health and safety impacts.
- County of Los Angeles Sheriff's Department – Responsible for operating the Emergency Operation Center for the entire City, including handling after-hour service calls reporting SSOs, pump station malfunction calls, and forwarding those reports to the Los Angeles County Public Works.

2.3.4 Chain of Communication for SSO Reporting

The chain of communication for reporting SSOs from receipt of a complaint or other reliable information source to reporting to the appropriate regulatory agencies is presented in Section 2.3.4a. The City's contact directory for communicating with both internal and external parties involved in responding and reporting an SSO event is shown in Section 2.3.5. The SSO emergency response plan will be discussed in greater detail in Chapter 6 of this document.

2.3.4a SSO Reporting Procedures Flow Chart



¹ California Office of Emergency Services (OES) is notified when SSO greater than or equal to 1,000 gallons discharged to or potentially will be discharged to surface water.

² Stormwater Maintenance Division (SWMD) is only notified when the SSO has entered a storm drain.

³ Environmental Program Division (EPD) is only notified when SSO of 50,000 gallons or greater are spilled to surface water.

2.3.5 City's Contact Directory for SSO Responding and Reporting

<u>After-Hour or Responsible Party</u>	<u>Name</u>	<u>Telephone</u>	<u>After Hours or Cell Phone</u>
City Manager	Greg Grammer	310-377-1577	
Assistant City Manager	Alexa Davis	310-377-1577 x-111	
Community Development/Public Works Director	David Wahba	310-377-1577 x-103	310-755-8855
Building Inspector	LACPW B&S Lomita Office	310-534-3760	
Maintenance Superintendent	Mike Goldsmith	310-378-4504	310-504-4947
Code Compliance Officer	Cameron Hall	310-377-1577 x-104	
LAC Sheriff Dept.		310-539-1661	
LAC Fire Dept.		310-679-1131	
LAC Public Works	24-hour Dispatch	626-458-4357	800-675-4357
LAC Health Department		213-974-1234	
LAC Stormwater Maintenance District		626-445-7630	
Sanitation Districts of LAC		562-699-7411	
R.W.Q.C.B. (Region 4)		213-576-6600	
California Office of Emergency Services		800-852-7550	

CHAPTER 3

LEGAL AUTHORITY

3.1 Legal Authority

The City's legal authority to own and operate a sanitary sewer system is derived from its incorporation as a City. On January 6, 1958, the City granted the County of Los Angeles the consent and jurisdiction to annex portions of the City sewer system into the CSMD. By that action, the City has entrusted the management, operation, and maintenance of its local sanitary sewer system to the CSMD. The City, however, still maintains ownership of the sewer system.

In compliance with the WDRs, this Chapter highlights the City's legal authority to: (1) prevent illicit discharges into the sanitary sewer system; (2) require that sewers and connections be properly designed and constructed; (3) ensure access for maintenance, inspection, or repairs; (4) limit the discharges of FOG and other debris that may cause blockage; and (5) enforce any violation of sewer ordinances or City Municipal Codes (CMCs). The legal authorities for the specific areas stipulated in the WDRs are covered in various sections of the CMCs and Chapters 20.20, 20.24, 20.22, 20.32, 20.36, and 20.40 of the Los Angeles County Code Title 20 – Utilities (LACO TITLE 20).

3.1.1 Legal Authority to Prevent Illicit Discharges into the Sanitary Sewer System

In accordance with the CMCs, Title 15, Chapter 15.16, the City has adopted the current version of Title 28 of the Los Angeles County Plumbing Code (LACO TITLE 28), which incorporates most provisions of the California Plumbing Code as its plumbing code. Per Title 13, Chapter 13.08, of the CMCs, the City has also adopted the current version of LACO TITLE 20, which regulates sanitary sewers and industrial waste in the County as its Sanitary Sewer and Industrial Waste Use Ordinance. LACO TITLE 28, Sections 306.2, 714.2, and 1101.2, prohibits the unauthorized discharge of rain, surface, or subsurface water (inflows) into the collection system. LACO TITLE 20, Section 20.36.010, prohibits the illegal dumping of offensive or damaging substances such as chemicals, debris, etc. Other sections of the LACO TITLE 20 that prohibit various forms of illicit discharges are Sections 20.24.020, 20.24.200, 20.32.080, 20.32.650, etc. The City, as one of the CSMD cities, benefits from the CSMD's I/I Control Program. This program consists of sewer line cleaning and maintenance, which includes CCTV and other mechanisms to detect I/I. By ordinance, LACO TITLE 20, Section 20.40.045, the County of Los Angeles Board of Supervisors has established a financial plan to ensure capital replacement or rehabilitation of sewer lines prone to I/I within the CSMD. LACO TITLE 20, Section 20.24.080, requires that property owners be responsible for maintenance of their house laterals, including the elimination of cracks, tree roots, and other debris. These laws

combined constitute the City's legal authority to prevent illicit discharges into the sewer system.

3.1.2 Legal Authority to Require that Sewers and Connections be Properly Designed and Constructed

LACO TITLE 20, Sections 20.32.330 and 20.32.340, as adopted by the City, requires that the design of new mainline sewers and pumping plants, respectively, comply with Part 3 of Chapter 20.32 of LACO TITLE 20. Section 20.32.350 of LACO TITLE 20 requires that the design of new house laterals also conform to the requirements of Part 3, Chapter 20.32, of LACO TITLE 20. In accordance with LACO TITLE 20, Section 20.32.580, the construction of a collection sewer system is required to conform to all the requirements prescribed by Division 2 of LACO TITLE 20, Standard Specifications for Public Works Construction ("Green Book"), and Special Provisions and Standard Plans, all on file in the Director of Public Works'/City Engineer's office. The inspection of new mainline sewers and pumping plants to ensure proper construction is covered under Section 20.30.590 of the LACO TITLE 20 and regulated under the CMCs.

3.1.3 Legal Authority to Ensure Access for Maintenance, Inspection, or Repairs

LACO TITLE 20, Division 2, as adopted by the City gives the City the legal right to set requirements to allow unrestricted maintenance access to the public sewer infrastructure located on private property. In accordance with Section 20.32.430 of LACO TITLE 20, the access is secured through the City's enforcement of the requirement for legally recorded sewer easements around all public sewer appurtenances located in private properties. Sewer easements are detailed on the sewer construction plans and are thoroughly reviewed by the City and Los Angeles County Public Works for adequacy in size and accuracy of alignment during the plan check process. Plan checkers take special care to ensure that maintenance crews will have sufficient access for the movement of equipment and materials for routine and emergency repairs or construction work on the system.

3.1.4 Legal Authority Limiting the Discharge of FOG and other Debris that May Cause Blockage

The City, by adopting LACO TITLE 28 and LACO TITLE 20, has the legal authority to satisfy this element of the WDRs. LACO TITLE 28 requires the installation of grease interceptors at restaurants and other food establishments that generate grease in the City. Section 714.1 of LACO TITLE 28 prohibits the discharge of FOG and other substances that may, among other things, clog, obstruct, fill, or necessitate frequent repairs, cleaning out, or flushing of sewer facilities in the City's sewer system.

This prohibition is also contained in LACO TITLE 20, Section 20.36.400. LACO TITLE 20, Section 20.36.560, gives the City Manager/Assistant City Manager the authority to require the installation of treatment facilities, including grease interceptors, at any facility that generates FOG in the amount that will damage or increase the maintenance costs of the sewer collection system.

3.1.5 Legal Authority to Enforce any Violation of Sewer Ordinances

LACO TITLE 20, Section 20.24.090, gives the Director of Public Works/City Engineer the legal authority to inspect mainline sewers, sewage pumping plants, interceptors, etc., as often as deemed necessary, to ascertain whether such facilities are maintained and operated in accordance with the provisions of Division 2 of LACO TITLE 20.

Under Section 20.24.100 of LACO TITLE 20, the Director of Public Works/City Engineer is empowered to enforce all the requirements prescribed in Division 2, Sanitary Sewers and Industrial Waste, and in accordance with Section 20.24.110, may delegate this authority. LACO TITLE 20, Section 20.24.160, allows criminal penalties for any violations.

LACO TITLE 20, LACO TITLE 28, standard plans, specifications, and other material cited in this chapter are filed at the Director of Public Works/City Engineer's office.

CHAPTER 4

OPERATION AND MAINTENANCE PROGRAM

4.1 Preventive Maintenance Program

The City is within the CSMD and, therefore, relies on the staff and resources of Los Angeles County Public Works for the SO&M of its collection sewer system. The CSMD's SO&M Programs described in detail in the Districts' SSMP are applicable in the City. The CSMD Lawndale Sub-Yard (Appendix B) located at 4055 West Marine Avenue in the City of Lawndale provides sewer services to the City. In addition, personnel from the other four sewer maintenance yards, shown in Appendix B, provide after-hour services, such as standby, callback, and other sewer emergency services, to the City. The maintenance equipment utilized within the City is owned by the CSMD. A complete inventory of the CSMD equipment assigned to the South Maintenance Yard is presented in Appendix C.

The City's maintenance programs are funded through levying an annual sewer service charge of \$41.50 per equivalent single-family dwelling unit, otherwise called a sewage unit (SU). This is included in the \$50.50 per SU levied by the CSMD and collected with the annual tax bills of property owners in the cities that are within the CSMD. The total annual revenue generated from the City for the various sewer programs through the \$50.50 per SU charge is approximately \$187,400. These funds are managed and administered by Los Angeles County Public Works and reviewed and adjusted annually to ensure sufficient revenues to fund the maintenance programs.

The following is a summary of the CSMD preventive maintenance activities implemented by the CSMD within the City:

4.1.1 Sewer Line and Manhole Inspection

The interior and exterior of manholes are inspected semi-annually for any structural defects, sewage flow condition, presence of vermin or rodents, deleterious industrial waste, odors, and any signs of unusual settlement around the manhole and along sewer alignments.

4.1.2 Gas Trap Manholes and Siphons

On a monthly basis these facilities are inspected and cleared of any stoppages or flow restrictions.

4.1.3 Drop Manholes

These facilities are inspected and cleared of stoppages and flow restrictions on variable frequencies based on prior inspection records.

4.1.4 Sewer Line Cleaning

Sewer lines are cleaned by hydro jetting or rodding. Frequency of cleaning is based on inspection records. Sewer lines known to accumulate grease, garbage grinds, or sand are placed on monthly, quarterly, or semiannual cleaning schedules and those prone to root growth are periodically rodded or chemically treated.

4.1.5 Vermin and Rodent Control

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

4.1.6 Sewage Pump Stations

Majority of the Districts' pump stations are equipped with SCADA/alarm systems and are inspected at least once a week. Pumps and motors are lubricated, control mechanisms and valves are checked and adjusted as necessary, and equipment is repaired or modified as required.

4.1.7 Work Schedules

CSMD work orders within the City are generated and tracked by Los Angeles County Public Works Maintenance Management System (MMS). CSMD field crew activities are recorded in various forms, such as service requests, cleaning reports, sewer maintenance daily reports, manhole adjustments, overflow report forms, etc., and maintained in the MMS database. The reports are made available to the City upon request.

4.1.8 City Sewer Mapping System

The City maintains "as-built" sewer plans of the City's sewer facilities. Data on the plans, such as system location and alignment, pipe material, size, etc., are stored in the Sewer Maintenance Division (SMD) Computer Aided Design and Drafting (CADD) System and Geographical Information System (GIS). Printed system maps are stored in the Mapping and Annexation Unit of the SMD located at 1000 South Fremont Avenue, Alhambra, California.

These maps are also distributed to the SMD's field crew, for work scheduling and responding to emergencies, and to cities and other agencies. The maps are regularly updated to reflect any changes in the system. System maps are also located online <http://dpw.lacounty.gov/smd/sewernetwork>.

SMD also create maps with GIS. This mapping system includes sewer features such as pipe or manhole location, diameter, material, flow direction, etc. The system includes map base layers such as aerial images, streets, parcels, and storm drain systems also available from other Divisions within Los Angeles County Public Works, County Departments and other governmental agencies.

4.2 Rehabilitation and Replacement Plan

The City's sewer collection systems are in the CSMD, and the City participates in the CSMD's Accumulative Capital Outlay (ACO) Program. As a result, the City also benefits from the Sewer Condition Assessment Program.

4.2.1 ACO Program of the CSMD

As stated, the City participates in the ACO Program of the CSMD. Property owners within the CSMD are levied an annual charge of \$5 per SU for sewer collection system rehabilitation and replacements. The \$5 per SU charge is also a component of the total \$50.50 per SU annual sewer service charge collected from property owners districtwide with the property owners' annual tax bills. The program is managed and administered by Los Angeles County Public Works.

Under the ACO Program, any portion of the sewer system found to be structurally deficient through routine inspection, sewer emergency response, or the Condition Assessment Program is immediately repaired as an emergency repair project or documented in a prioritized list of future short- and long-term ACO sewer rehabilitation and replacement projects. However, Los Angeles County Public Works will refer portions of the system that have sewer capacity-related problems, such as hydraulic deficiencies, resulting from over development or change in the zoning, to the City for appropriate corrective action. There are currently no known capacity-related SSO problems in the City.

4.2.2 Condition Assessment Program

The City's sewer system is in relatively good operating condition. Property owners within the CSMD are levied an annual charge of \$4 per S.U. for the Sewer Condition Assessment Program. This charge is reviewed and adjusted annually by the County to raise sufficient funds for the Condition Assessment Program. Under this program, the entire Sewer Collection System within the City will be inspected by CCTV to assess the condition of the pipes on a 10-year-cycle basis. The CCTV inspection schedule for the City is presented in Appendix E of this document. The \$4

per S.U. charge is also a component of the total \$50.50 per S.U. annual sewer service charge collected from property owners districtwide and collected with the property owner's annual tax bills. Los Angeles County Public Works is responsible for the management and administration of the funds and program.

There are currently about 33.8 miles of sewer lines and 3 pumping stations within the City. The existing City collection sewer facilities are listed in Appendix D. The various improvement projects that installed the sewer systems within the City and the dates of completion of the projects are presented in Appendix D. The existing and proposed sewer pipes, ranging from 8- to 12- inches in diameter, are predominantly of vitrified clay pipe material. A very small percentage of the City's sewer pipes are Acrylonitrile Butadiene Styrene Composite Pipe material type. Naturally, as these sewer lines age, structural problems such as cracks, joint separation, root intrusion, etc., will develop. To ensure that these problems are properly mitigated, the WDR requires that the City has a program in place to minimize and correct them and that the program is well funded.

4.3 Equipment Maintenance and Replacement Policy

The equipment utilized in the maintenance of the City's sewer facilities is owned by the CSMD. Los Angeles County Public Works has full responsibility for the maintenance and replacement of equipment. Los Angeles County Public Works Equipment Replacement Policy is described in Chapter 4.3 of the Districts' SSMP.

4.4 Training for Field Operations Personnel and Contractors

All personnel needed for the operation and maintenance of the City's sewer system are employed by the Los Angeles County Public Works. The training of CSMD personnel is a function of Los Angeles County Public Works and not the City. The training methodologies utilized by Los Angeles County Public Works are contained in Chapter 4.4 of the Districts' SSMP. The City does not have any formalized training for contractors doing work within the City. However, City sewer construction projects are awarded to competitively selected contractors with well trained and qualified personnel for any given project. The designed plans and specifications for City sewer construction projects contain detailed instructions on the City's permitting requirements, standards, and policies that must be adhered to by contractors doing work within the City.

CHAPTER 5

DESIGN AND PERFORMANCE PROVISION

5.1 Design and Construction Standards and Specifications

The City requires that all sewers be designed in accordance with Los Angeles County Public Works standards. Los Angeles County Public Works has standard plans and specifications for construction of sanitary sewers and appurtenances to ensure that sewer lines and connections are properly designed and constructed. Los Angeles County Public Works specifications by reference incorporate the standard plans and specifications for Public Works construction, special provisions, and standard drawings. In addition, Los Angeles County Public Works has other publications, such as the Private Contract Sanitary Sewer Procedural Manual, Guidelines for the Design of Pump Stations, etc., to ensure consistency in the design of collection systems within unincorporated County areas. The City requires that these publications also be followed in the design of sewer systems within the City. To further ensure that sewer facilities are properly designed, the City requires construction drawings be prepared by licensed engineers. The construction drawings are thoroughly reviewed by the City and SMDs engineers prior to approval for construction and inspection of the actual construction work. SMD review plans to ensure that appropriate maintenance standards are integrated into the design from a maintenance standpoint only.

5.2 Procedures and Standards for Inspection and Testing New and Rehabilitated Collection Sewer Facilities

The City provides inspection by outsourcing to qualified consultants for the inspection of new sewer construction projects. The inspection of sewer rehabilitation projects under the ACO Program are conducted by Los Angeles County Public Works inspectors. The City requires that "as-built" plans of the completed projects be submitted prior to final approval for acceptance of sewer facilities for public use.

In compliance with Los Angeles County Public Works policy, the City also requires that all newly constructed pumping stations be inspected by experienced SMD staff prior to transferring such facilities to the CSMD for maintenance.

CHAPTER 6

OVERFLOW EMERGENCY RESPONSE PLAN

6.1 Overflow Response Procedure

The City, as a member of the CSMD, relies on the services of the Los Angeles County Public Works to respond to SSOs within the City. Therefore, the overflow procedure described in Chapter 6 of the Districts' SSMP is utilized by the CSMD in the City. Furthermore, the Los Angeles County Public Works 24-hour emergency phone number 1-800-675-HELP (4357) is readily available to City staff and residents to promptly notify Los Angeles County Public Works staff of SSO events in the City.

However, in the event of an SSO in which a City crew is the first responder, the City is responsible for containing the release, if possible, and securing the area until Los Angeles County Public Works personnel arrive.

6.1.1 Regulatory Agencies Notification and Timeframe

The CSMD is responsible for reporting SSOs to the appropriate regulatory agencies for the City. As discussed in Chapter 2, SSOs that occur in the City are reported to Los Angeles County Public Works by telephone. Upon receipt of such calls, Los Angeles County Public Works Officials follow the notification guidelines contained in Chapter 6 of the Districts' SSMP, also presented in Sections 6.1.1a and 6.1.1b of this document.

Table 6.1.1a Regulatory Agencies Notification and Time Frame

SSO Category	Type or Description	Agencies to be Notified	Type of Notification and Timeframe	
			Timeframe	Written Report/*Online Database
1	<p>Any volume of untreated or partially treated SSO:</p> <ul style="list-style-type: none"> Reach surface water and/or drainage channel tributary to surface water Discharge to a storm drain and not fully captured and returned to the sanitary sewer system or not captured and disposed of properly. Any volume not recovered from storm drain is considered to have reached surface water. 	DPH	Within 15 minutes after becoming aware of the spill.	Call and obtain operator number.
		OES (≥ 1,000 gallons)	As soon as possible, but no later than 2 hours after becoming aware of the spill.	Call and obtain control number.
		SWMD (only if entered into storm drain)	As soon as possible, but no later than 2 hours after becoming aware of the spill.	NA
		EPD (≥ 50,000)	As soon as possible, but no later than 2 hours after becoming aware of the spill.	Conduct Water Quality Sampling within 48 hours of initial spill. CIWQS Online Database – Upload water quality results. SSO Technical Report – Submit report within 45 calendar days on conclusion of SSO in which 50,000 gallons or greater are spilled to surface water.
		SWRCB	As soon as we become aware of the SSO, reporting is possible and can be provided without substantially impeding cleanup or other measures.	CIWQS Online Database Initial Report - ASAP but no later than initial 3 business days after we are made aware of it. Final Certified Report – Within 15 calendar days on conclusion of the SSO response and remediation. Additional Information – Anytime in form of an attachment.
2	<p>≥ 1,000 gallons of Untreated or partially treated SSO:</p> <p>Does not reach surface water, drainage channel or storm drain unless discharge to storm drain system is fully recovered and disposed of properly.</p>	DPH	Same as above	NA
		SWMD (only if entered into storm drain)	Same as above	NA
		SWRCB	Same as above	Same as above
3	All other discharge of untreated or partially treated resulting from sewer system failure or flow condition.	DPH	Same as above	NA
		SWRCB	Same as above	CIWQS Online Database – Within 30 days after the end of the calendar month in which the SSO occurred.
PLSD	Private lateral sewage discharge (PLSD) caused by blockages or other problems within a privately-owned lateral	DPH	Same as above	NA
		SWRCB (optional)	NA	NA
NA	No SSO in a calendar month	SWRCB	NA	CIWQS Online Database – Certified within 30 days after the end of the calendar month, certified statement that no SSO occurred.
NA	Collection System Questionnaire	SWRCB	NA	CIWQS Online Database - Update and certify every 12 months.

Table 6.1.1b Agency Telephone Numbers

Agency	Contacts	Hours of Operation
Department of Public Health	(213) 974-1234	Answered on a 24-hour, 7-day basis
California Office of Emergency Services	(800) 852-7550	Answered on a 24-hour, 7-day basis
RWQCB (Region 4)	(213) 576-6600 (213) 576-6650	Answered only during normal working hours
LACPW Stormwater Maintenance Division	(626) 445-7630	Answered only during normal working hours
East Area	(626) 798-6761	Answered only during normal working hours
South Area	(562) 861-0316	Answered only during normal working hours
West Area	(818) 896-0594 (818) 248-3842	Answered only during normal working hours
LACPW Environmental Programs Division	(626) 458-4357	Answered on a 24-hour, 7-day basis
SWRCB		Online database website address
LACPW Emergency Phone Number	(800) 675-4357	Answered on a 24-hour, 7-day basis

6.1.2 Procedure to Ensure that Staff and Contractors are Aware and Appropriately Trained to Follow the Emergency Response Plan

The procedure to ensure that staff and contractors are aware and appropriately trained to follow the Emergency Response Plan is mainly the function of Los Angeles County Public Works. City staff, however, is familiar with the SMD reporting procedures, which are included in the Districts' SSMP.

6.1.3 Procedure to Address Emergency Operations such as Crowd Control and Other Necessary Response Activities

The City does not play a significant role in addressing emergency operations. Emergency operations are performed by Los Angeles County Public Works staff or contractors doing emergency repair SSO-related work for the County or City. The County of Los Angeles Fire and Sheriff's Departments also play active roles in the control and protection of the public during emergency SSO operations.

6.1.4 Program to Eliminate or Minimize the Discharge of SSOs into Surface Water

One of the main functions performed by Los Angeles County Public Works for the City is to eliminate or minimize the discharge of SSOs into surface water. The City's role is limited to ensuring that their collection system has sufficient capacity for all operating conditions and ensures that Los Angeles County Public Works staff is promptly notified of SSO events when they occur.

CHAPTER 7

FOG CONTROL PROGRAM

7.1 Public Education Outreach Program

The City currently benefits from Los Angeles County Public Works Public Education Outreach Program. Under this program, information on proper disposal of FOG and other SSO prevention measures, such as the installation of backwater valves, house lateral maintenance, etc., is disseminated by the CSMD to City residents through publication of Annual Reports, brochures and individual notices to property owners. Los Angeles County Public Works Sewer Maintenance and Industrial Waste Management Program personnel also assist in passing useful information on SSO prevention and FOG on to home and business owners

Public education materials are posted on <http://dpw.lacounty.gov/smd/smd/> and <http://dpw.lacounty.gov/Environmental Programs Division/cleanla>.

To complement County efforts, the City implements its own Public Education Outreach Program. This consists of including SSO- and FOG-related articles from Los Angeles County Public Works and other sources, into the City's newsletters and webpage (<http://www.ci.rolling-hills-estates.ca.us/> and by maintaining communication with Los Angeles County Public Works, City residents, and other stakeholders on these and other issues. City personnel also disseminate information to residents during meetings or while conducting right-of-way lateral work inspections.

7.2 Disposal Methods for FOG Generated within the City's Sanitary Sewer System

This function is performed by CSMD staff on behalf of the City. The methods used by Los Angeles County Public Works are contained in the Districts' SSMP.

7.3 Legal Authority to Prohibit Discharges to the System and Identify Measures to Prevent SSOs and Blockages Caused by FOG

The legal authority to prohibit discharges of FOG into the sewer system is discussed in Chapter 3 of this document. Requirements for grease interceptors at food establishments to prevent the discharge of grease to the collection sewer system and educating the public on proper disposal methods for FOG are also discussed in this chapter.

7.4 Requirement to Install Grease-Removal Devices, Design Standards for Grease-Removal Devices, Maintenance Requirements, Best Management Practices Requirements, Recordkeeping, and Reporting Requirements

Los Angeles County Public Works, under a separate agreement with the City (Appendix F), is charged with the responsibility of enforcing the County's Sanitary

Sewers and Industrial Waste Ordinance in the City. The County's Industrial Waste Program is managed by Los Angeles County Public Works, Environmental Programs Division. The design standards for grease removal devices and all the requirements imposed on industrial waste facilities that discharge waste or FOG into the City's sewer system are similar to those imposed in the unincorporated County and as presented in Chapter 7.4 of the Districts' SSMP.

7.5 Authority to Inspect Grease-Producing Facilities, Enforcement Authorities, and Evidence of Adequate Staffing to Inspect and Enforce the FOG Ordinance

LACO TITLE 20, Section 20.24.090, as adopted by the City, gives the City Manager/Assistant City Manager the authority to inspect grease-producing facilities for compliance with permit requirements. There are currently a total of 28 facilities holding Industrial Waste Permits in the City. In accordance with the aforementioned agreement, Los Angeles County Public Works is responsible for issuing permits and inspecting facilities for compliance with conditions of their permit. Los Angeles County Public Works in concert with the City Manager/Assistant City Manager is also responsible for the enforcement of all industrial waste permits and code violations in the City.

7.6 Cleaning Schedule for Identified FOG-Prone Sewer Segments

The cleaning schedule for identified FOG-prone sewer segments is performed by the CSMD for the City. The methods used by CSMD staff are described in the Districts' SSMP.

CHAPTER 8

SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN

8.1 System Evaluation and Capacity Assurance Plan

The City is responsible for ensuring that the public sewer infrastructure is correctly designed, adequately sized, and easily maintained. The CSMD also provides a supporting role in reviewing all proposed sewer plans for new developments in the City to ensure that they conform to County design standards and to ensure that requirements for acceptability for maintenance are met.

8.2 Adequate Capacity and Correct Design

The City, through hired qualified companies, provides thorough review of all sewer plans for proposed development projects in the City to ensure that (1) they are properly designed with sufficient capacity for current and future base, peak, and wet-weather flow demands; and (2) any impact of proposed project on existing sewer system is mitigated prior to being approved by the Director of Public Works/City Engineer. During construction, the projects are continuously inspected by the City hired construction inspectors to ensure that sewer facilities are constructed in accordance with the approved plans and specifications.

8.3 Capacity Enhancement Plan

The Sewer Collection System Capacity Enhancement Program is a combined effort between the City and Los Angeles County Public Works. The CSMD's programs to optimize the use of available sewer capacity and prevent SSOs include the CCTV Program to identify pipe segments needing repairs, I/I reduction and tree-root intrusion control programs, sewer cleaning program, and the ACO Program to effect repairs or replacement of damaged pipes. These programs are described in Chapters 3 and 4 of the Districts' SSMP.

CHAPTER 9

MONITORING, MEASUREMENT, AND MODIFICATION PROGRAM

9.1 Monitoring

The City will document all relevant data on SSOs that occurred in the City. This will include quarterly SSO reports from Los Angeles County Public Works, Annual Reports published by Los Angeles County Public Works, Sewer Maintenance Productivity Report (Appendix G) for the City, and any special reports to regulatory agencies, etc. The data will be analyzed to evaluate the effectiveness of the City's SSMP.

9.2 SSMP Program Effectiveness Evaluation

The biennial SSMP audit shall be used as one of the tools in assessing the effectiveness of the City's SSMP. The evaluation of the City's SSMP Program effectiveness shall be based on such key performance indicators as the total number of SSOs, SSO response time, reduction in repeated incidents of SSOs at the same location, total SSOs equal to or greater than 1,000 gallons or reaching surface waters, reduction in number of SSOs that are caused by sewer capacity-related problems, and any other effectiveness parameters established by the SWRCB.

9.3 Program Modification

The City shall continually update or modify the key elements of its SSMP based on the results of the above-mentioned monitoring and program effectiveness evaluations. The City shall also make recommendations to Los Angeles County Public Works, as necessary, on elements of the Districts' SSMP to be adjusted or revised within City boundaries to better serve its residents.

9.4 SSO Location Mapping and Trends

The annual SSO location map prepared by Los Angeles County Public Works is enclosed in Appendix H. The cause of each SSO incident is also recorded and shown on the map sheet. This map is used for establishing SSO patterns, identifying hot spots, and work assignment scheduling by Los Angeles County Public Works field personnel.

CHAPTER 10

SSMP PROGRAM AUDIT AND CERTIFICATION

10.1 SSMP Program Audit

The City shall conduct an internal audit and prepare a report every two years. The audit shall focus on evaluating the effectiveness of the SSMP, City's records, and SMD' compliance actions during the audit period. The most recent report of the audit must be kept on file in the Director of Public Works/City Engineer's office.

10.2 SSMP Certification

The SSMP shall be certified by the City Manager/Assistant City Manager or authorized representatives to be in compliance with the requirements set forth in the WDRs and be presented to the City Council for approval at a public meeting. The City authorized representative must also complete the certification portion in the online SSO Database Questionnaire (<http://ciwqs.waterboards.ca.gov/>) by checking the appropriate milestone box, printing and signing the automated form, and sending the signed form to:

Attention Sanitary Sewer Overflow Program Manager
State Water Resources Control Board
Division of Water Quality
P.O. Box 100
Sacramento, CA 95812

10.3 SSMP Modification and Recertification

The SSMP must be updated every five years to keep it current. When significant amendments are made to any portion or portions of the SSMP, it must be resubmitted to the City Council for approval and recertification. The recertification shall be in accordance with the certification process described in Section 10.2.

CHAPTER 11

COMMUNICATION AND SSMP AVAILABILITY

11.1 Communication

The City shall provide all stakeholders and interested parties, such as the public and other agencies, with status updates on the development and implementation of the SSMP and consider comments made by them. The City shall utilize media, such as letters, newsletters, brochures, notices in newspapers, and the City's home webpage, for conveying this information.

11.2 SSMP Availability

Copies of the SSMP will be maintained in the Director of Public Works'/City Engineer's office and posted in the City's home webpage. The document shall also be made readily available to the RWQCB (Regions 4) upon request and to the operators of any collection system or treatment facility downstream of the City's system.

CHAPTER 12

CSMD AND CITY RESPONSIBILITIES UNDER THE WDRs

12.1 CSMD vs. City Responsibilities

The CSMD and the City, which is a part of the CSMD, will play significant roles, jointly and separately, toward achieving the goals of the WDRs. Los Angeles County Public Works shall apply for coverage under the WDRs for facilities it owns. The City will apply for coverage for its own facilities.

The SMD shall prepare a comprehensive SSMP for the Districts. The City in coordination with Los Angeles County Public Works will prepare its own SSMP. The City has previously adopted codes and regulations providing it with legal authority in conjunction with agreements with the Districts to enforce items stipulated in the WDRs.

Section 12.2 shows the CSMD cities, including the City, and the SSO-related services currently provided by Los Angeles County Public Works to each of the cities. It also contains information on estimated population of the cities. The CSMD shall perform all functions under the WDRs related to the SO&M Program. The CSMD shall also be responsible for correcting structural deficiencies under the ACO Program. The cities will be conducting the capacity study of their collection systems, if necessary, and correcting identified hydraulic deficiencies. The matrix on Section 12.3 is a listing of the key elements of the SSMP and the roles for the CSMD and the City. By completing and signing this matrix, the City, as owner, and the CSMD, as service provider, mutually agree that it is an accurate description of what each entity will be responsible for under the WDRs. Upon approval by both parties, this document becomes a part of the City's and Districts' SSMP.

12.2 LACPW Sewer-Related Services to the 37 CSMD Cities

City	CSMD	ACO Program	Sewer Maintenance Agreement	Building and Safety	Industrial Waste	City Engineers	*Population
Agoura Hills	X	X			X		20,330
Artesia	X	X		X	X		16,522
Baldwin Park	X	X					75,390
Bell Gardens	X	X			X		44,054
Bellflower	X	X			X		76,616
Bradbury	X	X					1,048
Calabasas	X	X			X		23,058
Carson	X	X		X	X	X	91,714
Commerce	X	X		X	X	X	12,823
Cudahy	X	X			X		23,805
Diamond Bar	X	X			X		55,544
Duarte	X	X		X	X		21,321
Glendora	X	X					50,073
Hawaiian Gardens	X	X			X		14,254
Hidden Hills	X	X					1,856
Industry	X	X		X			219
Irwindale			X	X	X		1,422
La Cañada Flintridge	X	X		X	X		20,246
La Habra Heights	X	X					5,325
La Mirada	X	X		X	X	X	48,527
Lakewood	X	X		X	X	X	80,048
Lawndale	X	X		X	X		32,769
Lomita	X	X		X	X	X	20,256
Malibu	X	X					12,645
Palos Verdes Estates	X	X					13,438
Paramount	X	X			X		54,098
Pico Rivera	X	X			X		62,942
Rancho Palos Verdes	X	X			X		41,643
Rolling Hills	X	X		X			1,860
Rolling Hills Estates	X	X		X	X		8,067
Rosemead	X	X			X		53,764
San Dimas	X	X			X		33,371
Santa Clarita	X	X			X		177,641
Santa Fe Springs	X	X		X			16,223
South El Monte	X	X					20,116
Temple City	X	X		X	X	X	35,558
Walnut	X	X			X		29,172
West Hollywood			X		X		34,399
Westlake Village	X	X		X	X		8,270
TOTALS:	37	37	2	16	28	6	1,340,427

* The population data was obtained from the year 2010 Census data. Individual cities should verify the accuracy of the above data.

Through the General Services Agreement, a city can request County resources upon specific request.

12.3 ROLES FOR THE CONSOLIDATED SMD AND CITIES UNDER THE WASTE DISCHARGE REQUIREMENTS

	A	B	C	D	E	F	G
1	Task	WDR	Description or Requirement of the WDR	Completion Date	City of	County	Comments/Concerns
2	Identifier	Reference		w/ MOU	Rolling Hills Estates	Consolidated	
3				Regional Board 4			
4				10,000 – 100,000 served			
5							
6		D9	Allocate Adequate Resources		X	X	City for capacity related CIP, County for O&M & ACO
7		D9	Establish proper rate structure		X	X	
8		D9	Establish proper accounting mechanisms		X		
9		D9	Establish audit procedures		X		
10							
11		B1	Apply for coverage under WDR with SWRCB	11/2/2006	X	X	City as owner, County as operator
12		G	Reporting Program Initiation	1/2/2007	X	X	
13		B2	SWRCB to issue application instructions	7/2/2006	X	X	
14		B2	Appoint legally Authorized Representative		X	X	
15			Submit Completed Application Package		X	X	
16							
17		D13	Sewer System Management Plan				
18			Complete Development Plan & Schedule	11/2/2007	X		
19			Certification	5/2/2009	X		County support role only
20			Approval by Governing Board	5/2/2009	X		
21			Available at office or on internet	5/2/2009	X		
22							
23		D13(i)	Goal	11/2/2007	X		
24		D13(ii)	Organization	11/2/2007	X		
25			Identification of Authorized representative		X	X	
26			Organizational Chart		X		
27			Contact List		X	X	
28			SSO Reporting Chain of Communication		X	X	
29		D13(iii)	Legal Authority	5/2/2009	X	X	
30			Sewer System Use Ordinance Adoption		X	X	
31			Service Agreement or MOU or other legally binding procedure		X	X	
32							
33							
34		D13(iv)	Operations and Maintenance Program	5/2/2009		X	CSMD City
35			Up-to-date Mapping Procedures		X	X	
36			Description of routine O&M activities			X	
37			Preventive Maintenance Program			X	
38			Rehabilitation and Replacement Program		X	X	
39			Short-term		X	X	
40			Long-term		X	X	
41			Capital Improvement Plan		X	X	
42			Project Schedules		X	X	
43			Schedule for funding		X	X	

44		Training		X	X	City support role – spill containment and public education outreach
45		Develop training program			X	
46		Staff			X	
47		Contractors		X	X	
48		Equipment & Replacement Part Inventory Definition			X	
49						
50	D13(v)	Design and Performance Provisions	8/2/2009	X	X	City for new and capacity related CIP
51		Development of design and construction standards		X	X	City for new and County for rehab projects
52		Development of inspection and testing standards		X	X	
53						
54	D13(vi)	Overflow Emergency Response Plan	5/2/2009	X	X	
55		Adoption of Proper Notification Procedures			X	
56		Program for Appropriate Response Procedure		X	X	
57		Procedures for Prompt Notification			X	
58		Contractor & Staff verification procedure & drills		X	X	
59		Procedures for emergency operations communication		X	X	
60		Reasonable steps program to contain and prevent SSO		X	X	
61						
62	D13(vii)	FOG Program	5/2/2009			City covered by County I.W. Program
63		Implementation Plan and Schedule for Public Education Outreach Program		X	X	
64		Disposal Plan of FOG from the sewer system			X	
65		Definition of legal authority		X	X	
66		Grease removal device requirements		X	X	
67		Inspection Authority		X	X	
68		Inspection authority definition		X	X	
69		Identification of grease problems areas			X	
70		Development of source control measures		X		
71		Public Education Outreach Program		X	X	
72	D13(viii)	System Evaluation and Capacity Assurance Measures	8/2/2009	X	X	
73		Evaluations		X	X	
74		Design Criteria		X		
75		Capacity Enhancement Measures		X	X	
76		Schedules		X	X	
77		Capital Improvement Program		X	X	
78						
79	D13(ix)	Monitoring, Measurement and Modification	8/2/2009		X	
80		Development and Management of Changed Provisions				
81						
82	D13(x)	SSMP Program Audits	8/2/2009	X	X	
83		Preparation of Biannual reports (minimum)		X	X	
84						
85	D13(xi)	Communication Program	8/2/2009			
86		Conduct Public Hearings		X		City's program to complement County
87		Prepare Public Outreach Pieces		X	X	
88		Coordinate with LA San Distr. / L.A. CO. Communication Plans			X	
89						
90	D14	SSMP Approval by Governing Board	5/2/2009	X		

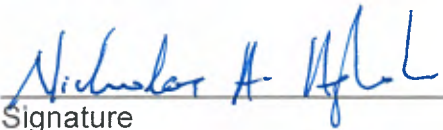
91							
92		D14	Update SSMP (every 5 years)	5/2/2014	X	X	County support role
93			Complete the online SSO Database Questionnaire		X		
94			Certify Compliance		X		
95			Governing Board re-certification & approval		X		
96							
97		G	Monitoring and Reporting Requirements	1/2/2007	X	X	
98		G3	Obtain SSO Database Account (CIWQS)		X	X	
99		G3	Complete Collection System Questionnaire	w/in 30 days	X		
100		G3	Update Collection System Questionnaire annually		X		
101							
102		G3	SSO Recordkeeping	5 years from date	x	X	

City Authorized Representative: David Wahba
Print Name


Signature

9/11/19
Date

SMD Authorized Representative: Nicholas A. Agbobu
Print Name


Signature

9/11/19
Date

APPENDIX A

WASTE DISCHARGE REQUIREMENTS

**STATE WATER RESOURCES CONTROL BOARD
ORDER NO. 2006-0003**

**STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS
FOR
SANITARY SEWER SYSTEMS**

The State Water Resources Control Board, hereinafter referred to as "State Water Board", finds that:

1. All federal and state agencies, municipalities, counties, districts, and other public entities that own or operate sanitary sewer systems greater than one mile in length that collect and/or convey untreated or partially treated wastewater to a publicly owned treatment facility in the State of California are required to comply with the terms of this Order. Such entities are hereinafter referred to as "Enrollees".
2. Sanitary sewer overflows (SSOs) are overflows from sanitary sewer systems of domestic wastewater, as well as industrial and commercial wastewater, depending on the pattern of land uses in the area served by the sanitary sewer system. SSOs often contain high levels of suspended solids, pathogenic organisms, toxic pollutants, nutrients, oxygen-demanding organic compounds, oil and grease and other pollutants. SSOs may cause a public nuisance, particularly when raw untreated wastewater is discharged to areas with high public exposure, such as streets or surface waters used for drinking, fishing, or body contact recreation. SSOs may pollute surface or ground waters, threaten public health, adversely affect aquatic life, and impair the recreational use and aesthetic enjoyment of surface waters.
3. Sanitary sewer systems experience periodic failures resulting in discharges that may affect waters of the state. There are many factors (including factors related to geology, design, construction methods and materials, age of the system, population growth, and system operation and maintenance), which affect the likelihood of an SSO. A proactive approach that requires Enrollees to ensure a system-wide operation, maintenance, and management plan is in place will reduce the number and frequency of SSOs within the state. This approach will in turn decrease the risk to human health and the environment caused by SSOs.
4. Major causes of SSOs include: grease blockages, root blockages, sewer line flood damage, manhole structure failures, vandalism, pump station mechanical failures, power outages, excessive storm or ground water inflow/infiltration, debris blockages, sanitary sewer system age and construction material failures, lack of proper operation and maintenance, insufficient capacity and contractor-caused damages. Many SSOs are preventable with adequate and appropriate facilities, source control measures and operation and maintenance of the sanitary sewer system.

SEWER SYSTEM MANAGEMENT PLANS

5. To facilitate proper funding and management of sanitary sewer systems, each Enrollee must develop and implement a system-specific Sewer System Management Plan (SSMP). To be effective, SSMPs must include provisions to provide proper and efficient management, operation, and maintenance of sanitary sewer systems, while taking into consideration risk management and cost benefit analysis. Additionally, an SSMP must contain a spill response plan that establishes standard procedures for immediate response to an SSO in a manner designed to minimize water quality impacts and potential nuisance conditions.
6. Many local public agencies in California have already developed SSMPs and implemented measures to reduce SSOs. These entities can build upon their existing efforts to establish a comprehensive SSMP consistent with this Order. Others, however, still require technical assistance and, in some cases, funding to improve sanitary sewer system operation and maintenance in order to reduce SSOs.
7. SSMP certification by technically qualified and experienced persons can provide a useful and cost-effective means for ensuring that SSMPs are developed and implemented appropriately.
8. It is the State Water Board's intent to gather additional information on the causes and sources of SSOs to augment existing information and to determine the full extent of SSOs and consequent public health and/or environmental impacts occurring in the State.
9. Both uniform SSO reporting and a centralized statewide electronic database are needed to collect information to allow the State Water Board and Regional Water Quality Control Boards (Regional Water Boards) to effectively analyze the extent of SSOs statewide and their potential impacts on beneficial uses and public health. The monitoring and reporting program required by this Order and the attached **Monitoring and Reporting Program No. 2006-0003**, are necessary to assure compliance with these waste discharge requirements (WDRs).
10. Information regarding SSOs must be provided to Regional Water Boards and other regulatory agencies in a timely manner and be made available to the public in a complete, concise, and timely fashion.
11. Some Regional Water Boards have issued WDRs or WDRs that serve as National Pollution Discharge Elimination System (NPDES) permits to sanitary sewer system owners/operators within their jurisdictions. This Order establishes minimum requirements to prevent SSOs. Although it is the State Water Board's intent that this Order be the primary regulatory mechanism for sanitary sewer systems statewide, Regional Water Boards may issue more stringent or more

prescriptive WDRs for sanitary sewer systems. Upon issuance or reissuance of a Regional Water Board's WDRs for a system subject to this Order, the Regional Water Board shall coordinate its requirements with stated requirements within this Order, to identify requirements that are more stringent, to remove requirements that are less stringent than this Order, and to provide consistency in reporting.

REGULATORY CONSIDERATIONS

12. California Water Code section 13263 provides that the State Water Board may prescribe general WDRs for a category of discharges if the State Water Board finds or determines that:

- The discharges are produced by the same or similar operations;
- The discharges involve the same or similar types of waste;
- The discharges require the same or similar treatment standards; and
- The discharges are more appropriately regulated under general discharge requirements than individual discharge requirements.

This Order establishes requirements for a class of operations, facilities, and discharges that are similar throughout the state.

13. The issuance of general WDRs to the Enrollees will:

- a) Reduce the administrative burden of issuing individual WDRs to each Enrollee;
- b) Provide for a unified statewide approach for the reporting and database tracking of SSOs;
- c) Establish consistent and uniform requirements for SSMP development and implementation;
- d) Provide statewide consistency in reporting; and
- e) Facilitate consistent enforcement for violations.

14. The beneficial uses of surface waters that can be impaired by SSOs include, but are not limited to, aquatic life, drinking water supply, body contact and non-contact recreation, and aesthetics. The beneficial uses of ground water that can be impaired include, but are not limited to, drinking water and agricultural supply. Surface and ground waters throughout the state support these uses to varying degrees.

15. The implementation of requirements set forth in this Order will ensure the reasonable protection of past, present, and probable future beneficial uses of water and the prevention of nuisance. The requirements implement the water quality control plans (Basin Plans) for each region and take into account the environmental characteristics of hydrographic units within the state. Additionally, the State Water Board has considered water quality conditions that could reasonably be achieved through the coordinated control of all factors that affect

water quality in the area, costs associated with compliance with these requirements, the need for developing housing within California, and the need to develop and use recycled water.

16. The Federal Clean Water Act largely prohibits any discharge of pollutants from a point source to waters of the United States except as authorized under an NPDES permit. In general, any point source discharge of sewage effluent to waters of the United States must comply with technology-based, secondary treatment standards, at a minimum, and any more stringent requirements necessary to meet applicable water quality standards and other requirements. Hence, the unpermitted discharge of wastewater from a sanitary sewer system to waters of the United States is illegal under the Clean Water Act. In addition, many Basin Plans adopted by the Regional Water Boards contain discharge prohibitions that apply to the discharge of untreated or partially treated wastewater. Finally, the California Water Code generally prohibits the discharge of waste to land prior to the filing of any required report of waste discharge and the subsequent issuance of either WDRs or a waiver of WDRs.
17. California Water Code section 13263 requires a water board to, after any necessary hearing, prescribe requirements as to the nature of any proposed discharge, existing discharge, or material change in an existing discharge. The requirements shall, among other things, take into consideration the need to prevent nuisance.
18. California Water Code section 13050, subdivision (m), defines nuisance as anything which meets all of the following requirements:
 - a. Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.
 - b. Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
 - c. Occurs during, or as a result of, the treatment or disposal of wastes.
19. This Order is consistent with State Water Board Resolution No. 68-16 (Statement of Policy with Respect to Maintaining High Quality of Waters in California) in that the Order imposes conditions to prevent impacts to water quality, does not allow the degradation of water quality, will not unreasonably affect beneficial uses of water, and will not result in water quality less than prescribed in State Water Board or Regional Water Board plans and policies.
20. The action to adopt this General Order is exempt from the California Environmental Quality Act (Public Resources Code §21000 et seq.) because it is an action taken by a regulatory agency to assure the protection of the environment and the regulatory process involves procedures for protection of the environment. (Cal. Code Regs., tit. 14, §15308). In addition, the action to adopt

this Order is exempt from CEQA pursuant to Cal.Code Regs., title 14, §15301 to the extent that it applies to existing sanitary sewer collection systems that constitute “existing facilities” as that term is used in Section 15301, and §15302, to the extent that it results in the repair or replacement of existing systems involving negligible or no expansion of capacity.

21. The Fact Sheet, which is incorporated by reference in the Order, contains supplemental information that was also considered in establishing these requirements.
22. The State Water Board has notified all affected public agencies and all known interested persons of the intent to prescribe general WDRs that require Enrollees to develop SSMPs and to report all SSOs.
23. The State Water Board conducted a public hearing on February 8, 2006, to receive oral and written comments on the draft order. The State Water Board received and considered, at its May 2, 2006, meeting, additional public comments on substantial changes made to the proposed general WDRs following the February 8, 2006, public hearing. The State Water Board has considered all comments pertaining to the proposed general WDRs.

IT IS HEREBY ORDERED, that pursuant to California Water Code section 13263, the Enrollees, their agents, successors, and assigns, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted hereunder, shall comply with the following:

A. DEFINITIONS

1. **Sanitary sewer overflow (SSO)** - Any overflow, spill, release, discharge or diversion of untreated or partially treated wastewater from a sanitary sewer system. SSOs include:
 - (i) Overflows or releases of untreated or partially treated wastewater that reach waters of the United States;
 - (ii) Overflows or releases of untreated or partially treated wastewater that do not reach waters of the United States; and
 - (iii) Wastewater backups into buildings and on private property that are caused by blockages or flow conditions within the publicly owned portion of a sanitary sewer system.
2. **Sanitary sewer system** – Any system of pipes, pump stations, sewer lines, or other conveyances, upstream of a wastewater treatment plant headworks used to collect and convey wastewater to the publicly owned treatment facility. Temporary storage and conveyance facilities (such as vaults, temporary piping, construction trenches, wet wells, impoundments, tanks, etc.) are considered to be part of the sanitary sewer system, and discharges into these temporary storage facilities are not considered to be SSOs.

For purposes of this Order, sanitary sewer systems include only those systems owned by public agencies that are comprised of more than one mile of pipes or sewer lines.

3. **Enrollee** - A federal or state agency, municipality, county, district, and other public entity that owns or operates a sanitary sewer system, as defined in the general WDRs, and that has submitted a complete and approved application for coverage under this Order.
4. **SSO Reporting System** – Online spill reporting system that is hosted, controlled, and maintained by the State Water Board. The web address for this site is <http://ciwqs.waterboards.ca.gov>. This online database is maintained on a secure site and is controlled by unique usernames and passwords.
5. **Untreated or partially treated wastewater** – Any volume of waste discharged from the sanitary sewer system upstream of a wastewater treatment plant headworks.
6. **Satellite collection system** – The portion, if any, of a sanitary sewer system owned or operated by a different public agency than the agency that owns and operates the wastewater treatment facility to which the sanitary sewer system is tributary.
7. **Nuisance** - California Water Code section 13050, subdivision (m), defines nuisance as anything which meets all of the following requirements:
 - a. Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.
 - b. Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
 - c. Occurs during, or as a result of, the treatment or disposal of wastes.

B. APPLICATION REQUIREMENTS

1. **Deadlines for Application** – All public agencies that currently own or operate sanitary sewer systems within the State of California must apply for coverage under the general WDRs within six (6) months of the date of adoption of the general WDRs. Additionally, public agencies that acquire or assume responsibility for operating sanitary sewer systems after the date of adoption of this Order must apply for coverage under the general WDRs at least three (3) months prior to operation of those facilities.
2. **Applications under the general WDRs** – In order to apply for coverage pursuant to the general WDRs, a legally authorized representative for each agency must submit a complete application package. Within sixty (60) days of adoption of the general WDRs, State Water Board staff will send specific instructions on how to

apply for coverage under the general WDRs to all known public agencies that own sanitary sewer systems. Agencies that do not receive notice may obtain applications and instructions online on the Water Board's website.

3. Coverage under the general WDRs – Permit coverage will be in effect once a complete application package has been submitted and approved by the State Water Board's Division of Water Quality.

C. PROHIBITIONS

1. Any SSO that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited.
2. Any SSO that results in a discharge of untreated or partially treated wastewater that creates a nuisance as defined in California Water Code Section 13050(m) is prohibited.

D. PROVISIONS

1. The Enrollee must comply with all conditions of this Order. Any noncompliance with this Order constitutes a violation of the California Water Code and is grounds for enforcement action.
2. It is the intent of the State Water Board that sanitary sewer systems be regulated in a manner consistent with the general WDRs. Nothing in the general WDRs shall be:
 - (i) Interpreted or applied in a manner inconsistent with the Federal Clean Water Act, or supersede a more specific or more stringent state or federal requirement in an existing permit, regulation, or administrative/judicial order or Consent Decree;
 - (ii) Interpreted or applied to authorize an SSO that is illegal under either the Clean Water Act, an applicable Basin Plan prohibition or water quality standard, or the California Water Code;
 - (iii) Interpreted or applied to prohibit a Regional Water Board from issuing an individual NPDES permit or WDR, superseding this general WDR, for a sanitary sewer system, authorized under the Clean Water Act or California Water Code; or
 - (iv) Interpreted or applied to supersede any more specific or more stringent WDRs or enforcement order issued by a Regional Water Board.
3. The Enrollee shall take all feasible steps to eliminate SSOs. In the event that an SSO does occur, the Enrollee shall take all feasible steps to contain and mitigate the impacts of an SSO.
4. In the event of an SSO, the Enrollee shall take all feasible steps to prevent untreated or partially treated wastewater from discharging from storm drains into

flood control channels or waters of the United States by blocking the storm drainage system and by removing the wastewater from the storm drains.

5. All SSOs must be reported in accordance with Section G of the general WDRs.
6. In any enforcement action, the State and/or Regional Water Boards will consider the appropriate factors under the duly adopted State Water Board Enforcement Policy. And, consistent with the Enforcement Policy, the State and/or Regional Water Boards must consider the Enrollee's efforts to contain, control, and mitigate SSOs when considering the California Water Code Section 13327 factors. In assessing these factors, the State and/or Regional Water Boards will also consider whether:
 - (i) The Enrollee has complied with the requirements of this Order, including requirements for reporting and developing and implementing a SSMP;
 - (ii) The Enrollee can identify the cause or likely cause of the discharge event;
 - (iii) There were no feasible alternatives to the discharge, such as temporary storage or retention of untreated wastewater, reduction of inflow and infiltration, use of adequate backup equipment, collecting and hauling of untreated wastewater to a treatment facility, or an increase in the capacity of the system as necessary to contain the design storm event identified in the SSMP. It is inappropriate to consider the lack of feasible alternatives, if the Enrollee does not implement a periodic or continuing process to identify and correct problems.
 - (iv) The discharge was exceptional, unintentional, temporary, and caused by factors beyond the reasonable control of the Enrollee;
 - (v) The discharge could have been prevented by the exercise of reasonable control described in a certified SSMP for:
 - Proper management, operation and maintenance;
 - Adequate treatment facilities, sanitary sewer system facilities, and/or components with an appropriate design capacity, to reasonably prevent SSOs (e.g., adequately enlarging treatment or collection facilities to accommodate growth, infiltration and inflow (I/I), etc.);
 - Preventive maintenance (including cleaning and fats, oils, and grease (FOG) control);
 - Installation of adequate backup equipment; and
 - Inflow and infiltration prevention and control to the extent practicable.
 - (vi) The sanitary sewer system design capacity is appropriate to reasonably prevent SSOs.

- (vii) The Enrollee took all reasonable steps to stop and mitigate the impact of the discharge as soon as possible.
7. When a sanitary sewer overflow occurs, the Enrollee shall take all feasible steps and necessary remedial actions to 1) control or limit the volume of untreated or partially treated wastewater discharged, 2) terminate the discharge, and 3) recover as much of the wastewater discharged as possible for proper disposal, including any wash down water.

The Enrollee shall implement all remedial actions to the extent they may be applicable to the discharge and not inconsistent with an emergency response plan, including the following:

- (i) Interception and rerouting of untreated or partially treated wastewater flows around the wastewater line failure;
 - (ii) Vacuum truck recovery of sanitary sewer overflows and wash down water;
 - (iii) Cleanup of debris at the overflow site;
 - (iv) System modifications to prevent another SSO at the same location;
 - (v) Adequate sampling to determine the nature and impact of the release; and
 - (vi) Adequate public notification to protect the public from exposure to the SSO.
8. The Enrollee shall properly, manage, operate, and maintain all parts of the sanitary sewer system owned or operated by the Enrollee, and shall ensure that the system operators (including employees, contractors, or other agents) are adequately trained and possess adequate knowledge, skills, and abilities.
9. The Enrollee shall allocate adequate resources for the operation, maintenance, and repair of its sanitary sewer system, by establishing a proper rate structure, accounting mechanisms, and auditing procedures to ensure an adequate measure of revenues and expenditures. These procedures must be in compliance with applicable laws and regulations and comply with generally acceptable accounting practices.
10. The Enrollee shall provide adequate capacity to convey base flows and peak flows, including flows related to wet weather events. Capacity shall meet or exceed the design criteria as defined in the Enrollee's System Evaluation and Capacity Assurance Plan for all parts of the sanitary sewer system owned or operated by the Enrollee.
11. The Enrollee shall develop and implement a written Sewer System Management Plan (SSMP) and make it available to the State and/or Regional Water Board upon request. A copy of this document must be publicly available at the Enrollee's office and/or available on the Internet. This SSMP must be approved by the Enrollee's governing board at a public meeting.

12. In accordance with the California Business and Professions Code sections 6735, 7835, and 7835.1, all engineering and geologic evaluations and judgments shall be performed by or under the direction of registered professionals competent and proficient in the fields pertinent to the required activities. Specific elements of the SSMP that require professional evaluation and judgments shall be prepared by or under the direction of appropriately qualified professionals, and shall bear the professional(s)' signature and stamp.
13. The mandatory elements of the SSMP are specified below. However, if the Enrollee believes that any element of this section is not appropriate or applicable to the Enrollee's sanitary sewer system, the SSMP program does not need to address that element. The Enrollee must justify why that element is not applicable. The SSMP must be approved by the deadlines listed in the SSMP Time Schedule below.

Sewer System Management Plan (SSMP)

- (i) **Goal:** The goal of the SSMP is to provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system. This will help reduce and prevent SSOs, as well as mitigate any SSOs that do occur.
- (ii) **Organization:** The SSMP must identify:
 - (a) The name of the responsible or authorized representative as described in Section J of this Order.
 - (b) The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program. The SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and
 - (c) 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)).
- (iii) **Legal Authority:** Each Enrollee must demonstrate, through sanitary sewer system use ordinances, service agreements, or other legally binding procedures, that it possesses the necessary legal authority to:
 - (a) Prevent illicit discharges into its sanitary sewer system (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc.);

- (b) Require that sewers and connections be properly designed and constructed;
 - (c) Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency;
 - (d) Limit the discharge of fats, oils, and grease and other debris that may cause blockages, and
 - (e) Enforce any violation of its sewer ordinances.
- (iv) **Operation and Maintenance Program.** The SSMP must include those elements listed below that are appropriate and applicable to the Enrollee's system:
- (a) Maintain an up-to-date map of the sanitary sewer system, showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities;
 - (b) Describe routine preventive operation and maintenance activities by staff and contractors, including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more frequent cleaning and maintenance targeted at known problem areas. The Preventative Maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders;
 - (c) Develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency. The program should include regular visual and TV inspections of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation. Rehabilitation and replacement should focus on sewer pipes that are at risk of collapse or prone to more frequent blockages due to pipe defects. Finally, the rehabilitation and replacement plan should include a capital improvement plan that addresses proper management and protection of the infrastructure assets. The plan shall include a time schedule for implementing the short- and long-term plans plus a schedule for developing the funds needed for the capital improvement plan;
 - (d) Provide training on a regular basis for staff in sanitary sewer system operations and maintenance, and require contractors to be appropriately trained; and

- (e) Provide equipment and replacement part inventories, including identification of critical replacement parts.

(v) **Design and Performance Provisions:**

- (a) Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and
- (b) Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

(vi) **Overflow Emergency Response Plan** - Each Enrollee shall develop and implement an overflow emergency response plan that identifies measures to protect public health and the environment. At a minimum, this plan must include the following:

- (a) Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;
- (b) A program to ensure an appropriate response to all overflows;
- (c) 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 all SSOs that potentially affect public health or reach the waters of the State in accordance with the MRP. All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board WDRs or NPDES permit requirements. The SSMP should identify the officials who will receive immediate notification;
- (d) Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;
- (e) Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities; and
- (f) A program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

(vii) **FOG Control Program:** Each Enrollee shall evaluate its service area to determine whether a FOG control program is needed. If an Enrollee determines that a FOG program is not needed, the Enrollee must provide justification for why it is not needed. If FOG is found to be a problem, the Enrollee must prepare and implement a FOG source control program to reduce the amount of these substances discharged to the sanitary sewer system. This plan shall include the following as appropriate:

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

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

- (a) **Evaluation:** Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs

that escape from the system) associated with conditions similar to those causing overflow events, estimates of the capacity of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events;

- (b) **Design Criteria:** Where design criteria do not exist or are deficient, undertake the evaluation identified in (a) above to establish appropriate design criteria; and
 - (c) **Capacity Enhancement Measures:** The steps needed to establish a short- and long-term CIP to address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP shall include an implementation schedule and shall identify sources of funding.
 - (d) **Schedule:** The Enrollee shall develop a schedule of completion dates for all portions of the capital improvement program developed in (a)-(c) above. This schedule shall be reviewed and updated consistent with the SSMP review and update requirements as described in Section D. 14.
- (ix) **Monitoring, Measurement, and Program Modifications:** The Enrollee shall:
- (a) Maintain relevant information that can be used to establish and prioritize appropriate SSMP activities;
 - (b) Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP;
 - (c) Assess the success of the preventative maintenance program;
 - (d) Update program elements, as appropriate, based on monitoring or performance evaluations; and
 - (e) Identify and illustrate SSO trends, including: frequency, location, and volume.
- (x) **SSMP Program Audits** - As part of the SSMP, the Enrollee shall conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. At a minimum, these audits must occur every two years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the

Enrollee's compliance with the SSMP requirements identified in this subsection (D.13), including identification of any deficiencies in the SSMP and steps to correct them.

- (xi) **Communication Program** – The Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented.

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

14. Both the SSMP and the Enrollee's program to implement the SSMP must be certified by the Enrollee to be in compliance with the requirements set forth above and must be presented to the Enrollee's governing board for approval at a public meeting. The Enrollee shall certify that the SSMP, and subparts thereof, are in compliance with the general WDRs within the time frames identified in the time schedule provided in subsection D.15, below.

In order to complete this certification, the Enrollee's authorized representative must complete the certification portion in the Online SSO Database Questionnaire by checking the appropriate milestone box, printing and signing the automated form, and sending the form to:

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

The SSMP must be updated every five (5) years, and must include any significant program changes. Re-certification by the governing board of the Enrollee is required in accordance with D.14 when significant updates to the SSMP are made. To complete the re-certification process, the Enrollee shall enter the data in the Online SSO Database and mail the form to the State Water Board, as described above.

15. The Enrollee shall comply with these requirements according to the following schedule. This time schedule does not supersede existing requirements or time schedules associated with other permits or regulatory requirements.

Sewer System Management Plan Time Schedule

<u>Task and Associated Section</u>	Completion Date			
	Population > 100,000	Population between 100,000 and 10,000	Population between 10,000 and 2,500	Population < 2,500
Application for Permit Coverage Section C	6 months after WDRs Adoption			
Reporting Program Section G	6 months after WDRs Adoption ¹			
SSMP Development Plan and Schedule No specific Section	9 months after WDRs Adoption ²	12 months after WDRs Adoption ²	15 months after WDRs Adoption ²	18 months after WDRs Adoption ²
Goals and Organization Structure Section D 13 (i) & (ii)	12 months after WDRs Adoption ²		18 months after WDRs Adoption ²	
Overflow Emergency Response Program Section D 13 (vi)	24 months after WDRs Adoption ²	30 months after WDRs Adoption ²	36 months after WDRs Adoption ²	39 months after WDRs Adoption ²
Legal Authority Section D 13 (iii)				
Operation and Maintenance Program Section D 13 (iv)				
Grease Control Program Section D 13 (vii)	36 months after WDRs Adoption	39 months after WDRs Adoption	48 months after WDRs Adoption	51 months after WDRs Adoption
Design and Performance Section D 13 (v)				
System Evaluation and Capacity Assurance Plan Section D 13 (viii)				
Final SSMP, incorporating all of the SSMP requirements Section D 13				

1. In the event that by July 1, 2006 the Executive Director is able to execute a memorandum of agreement (MOA) with the California Water Environment Association (CWEA) or discharger representatives outlining a strategy and time schedule for CWEA or another entity to provide statewide training on the adopted monitoring program, SSO database electronic reporting, and SSMP development, consistent with this Order, then the schedule of Reporting Program Section G shall be replaced with the following schedule:

Reporting Program Section G	
Regional Boards 4, 8, and 9	8 months after WDRs Adoption
Regional Boards 1, 2, and 3	12 months after WDRs Adoption
Regional Boards 5, 6, and 7	16 months after WDRs Adoption

If this MOU is not executed by July 1, 2006, the reporting program time schedule will remain six (6) months for all regions and agency size categories.

2. In the event that the Executive Director executes the MOA identified in note 1 by July 1, 2006, then the deadline for this task shall be extended by six (6) months. The time schedule identified in the MOA must be consistent with the extended time schedule provided by this note. If the MOA is not executed by July 1, 2006, the six (6) month time extension will not be granted.

E. WDRs and SSMP AVAILABILITY

1. A copy of the general WDRs and the certified SSMP shall be maintained at appropriate locations (such as the Enrollee’s offices, facilities, and/or Internet homepage) and shall be available to sanitary sewer system operating and maintenance personnel at all times.

F. ENTRY AND INSPECTION

1. The Enrollee shall allow the State or Regional Water Boards or their authorized representative, upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the Enrollee’s premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order;

- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and
- d. Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order or as otherwise authorized by the California Water Code, any substances or parameters at any location.

G. GENERAL MONITORING AND REPORTING REQUIREMENTS

1. The Enrollee shall furnish to the State or Regional Water Board, within a reasonable time, any information that the State or Regional Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Enrollee shall also furnish to the Executive Director of the State Water Board or Executive Officer of the applicable Regional Water Board, upon request, copies of records required to be kept by this Order.
2. The Enrollee shall comply with the attached Monitoring and Reporting Program No. 2006-0003 and future revisions thereto, as specified by the Executive Director. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. 2006-0003. Unless superseded by a specific enforcement Order for a specific Enrollee, these reporting requirements are intended to replace other mandatory routine written reports associated with SSOs.
3. All Enrollees must obtain SSO Database accounts and receive a "Username" and "Password" by registering through the California Integrated Water Quality System (CIWQS). These accounts will allow controlled and secure entry into the SSO Database. Additionally, within 30days of receiving an account and prior to recording spills into the SSO Database, all Enrollees must complete the "Collection System Questionnaire", which collects pertinent information regarding a Enrollee's collection system. The "Collection System Questionnaire" must be updated at least every 12 months.
4. Pursuant to Health and Safety Code section 5411.5, any person who, without regard to intent or negligence, causes or permits any untreated wastewater or other waste to be discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State, as soon as that person has knowledge of the discharge, shall immediately notify the local health officer of the discharge. Discharges of untreated or partially treated wastewater to storm drains and drainage channels, whether man-made or natural or concrete-lined, shall be reported as required above.

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

H. CHANGE IN OWNERSHIP

1. This Order is not transferable to any person or party, except after notice to the Executive Director. The Enrollee shall submit this notice in writing at least 30 days in advance of any proposed transfer. The notice must include a written agreement between the existing and new Enrollee containing a specific date for the transfer of this Order's responsibility and coverage between the existing Enrollee and the new Enrollee. This agreement shall include an acknowledgement that the existing Enrollee is liable for violations up to the transfer date and that the new Enrollee is liable from the transfer date forward.

I. INCOMPLETE REPORTS

1. If an Enrollee becomes aware that it failed to submit any relevant facts in any report required under this Order, the Enrollee shall promptly submit such facts or information by formally amending the report in the Online SSO Database.

J. REPORT DECLARATION

1. All applications, reports, or information shall be signed and certified as follows:
 - (i) All reports required by this Order and other information required by the State or Regional Water Board shall be signed and certified by a person designated, for a municipality, state, federal or other public agency, as either a principal executive officer or ranking elected official, or by a duly authorized representative of that person, as described in paragraph (ii) of this provision. (For purposes of electronic reporting, an electronic signature and accompanying certification, which is in compliance with the Online SSO database procedures, meet this certification requirement.)
 - (ii) An individual is a duly authorized representative only if:
 - (a) The authorization is made in writing by a person described in paragraph (i) of this provision; and
 - (b) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity.

K. CIVIL MONETARY REMEDIES FOR DISCHARGE VIOLATIONS

1. The California Water Code provides various enforcement options, including civil monetary remedies, for violations of this Order.
2. The California Water Code also provides that any person failing or refusing to furnish technical or monitoring program reports, as required under this Order, or

falsifying any information provided in the technical or monitoring reports is subject to civil monetary penalties.

L. SEVERABILITY

1. The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.
2. This order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the Enrollee from liability under federal, state or local laws, nor create a vested right for the Enrollee to continue the waste discharge.

CERTIFICATION

The undersigned Clerk to the State Water Board does hereby certify that the foregoing is a full, true, and correct copy of general WDRs duly and regularly adopted at a meeting of the State Water Resources Control Board held on May 2, 2006.

AYE: Tam M. Doduc
Gerald D. Secundy

NO: Arthur G. Baggett

ABSENT: None

ABSTAIN: None



Song Her
Clerk to the Board

STATE OF CALIFORNIA
WATER RESOURCES CONTROL BOARD
ORDER NO. WQ 2013-0058-EXEC

AMENDING MONITORING AND REPORTING PROGRAM
FOR
STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR
SANITARY SEWER SYSTEMS

The State of California, Water Resources Control Board (hereafter State Water Board) finds:

1. The State Water Board is authorized to prescribe statewide general Waste Discharge Requirements (WDRs) for categories of discharges that involve the same or similar operations and the same or similar types of waste pursuant to Water Code section 13263(i).
2. Water Code section 13193 *et seq.* requires the Regional Water Quality Control Boards (Regional Water Boards) and the State Water Board (collectively, the Water Boards) to gather Sanitary Sewer Overflow (SSO) information and make this information available to the public, including but not limited to, SSO cause, estimated volume, location, date, time, duration, whether or not the SSO reached or may have reached waters of the state, response and corrective action taken, and an enrollee's contact information for each SSO event. An enrollee is defined as the public entity having legal authority over the operation and maintenance of, or capital improvements to, a sanitary sewer system greater than one mile in length.
3. Water Code section 13271, *et seq.* requires notification to the California Office of Emergency Services (Cal OES), formerly the California Emergency Management Agency, for certain unauthorized discharges, including SSOs.
4. On May 2, 2006, the State Water Board adopted Order 2006-0003-DWQ, "Statewide Waste Discharge Requirements for Sanitary Sewer Systems"¹ (hereafter SSS WDRs) to comply with Water Code section 13193 and to establish the framework for the statewide SSO Reduction Program.
5. Subsection G.2 of the SSS WDRs and the Monitoring and Reporting Program (MRP) provide that the Executive Director may modify the terms of the MRP at any time.
6. On February 20, 2008, the State Water Board Executive Director adopted a revised MRP for the SSS WDRs to rectify early notification deficiencies and ensure that first responders are notified in a timely manner of SSOs discharged into waters of the state.
7. When notified of an SSO that reaches a drainage channel or surface water of the state, Cal OES, pursuant to Water Code section 13271(a)(3), forwards the SSO notification information² to local government agencies and first responders including local public health officials and the applicable Regional Water Board. Receipt of notifications for a single SSO event from both the SSO reporter

¹ Available for download at:

http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2006/wqo/wqo2006_0003.pdf

² Cal OES Hazardous Materials Spill Reports available Online at:

[http://w3.calema.ca.gov/operational/mal haz.nsf/\\$defaultview](http://w3.calema.ca.gov/operational/mal haz.nsf/$defaultview) and <http://w3.calema.ca.gov/operational/mal haz.nsf>

and Cal OES is duplicative. To address this, the SSO notification requirements added by the February 20, 2008 MRP revision are being removed in this MRP revision.


8. In the February 28, 2008 Memorandum of Agreement between the State Water Board and the California Water and Environment Association (CWEA), the State Water Board committed to re-designing the CIWQS³ Online SSO Database to allow "event" based SSO reporting versus the original "location" based reporting. Revisions to this MRP and accompanying changes to the CIWQS Online SSO Database will implement this change by allowing for multiple SSO appearance points to be associated with each SSO event caused by a single asset failure.
9. Based on stakeholder input and Water Board staff experience implementing the SSO Reduction Program, SSO categories have been revised in this MRP. In the prior version of the MRP, SSOs have been categorized as Category 1 or Category 2. This MRP implements changes to SSO categories by adding a Category 3 SSO type. This change will improve data management to further assist Water Board staff with evaluation of high threat and low threat SSOs by placing them in unique categories (i.e., Category 1 and Category 3, respectively). This change will also assist enrollees in identifying SSOs that require Cal OES notification.
10. Based on over six years of implementation of the SSS WDRs, the State Water Board concludes that the February 20, 2008 MRP must be updated to better advance the SSO Reduction Program⁴ objectives, assess compliance, and enforce the requirements of the SSS WDRs.

IT IS HEREBY ORDERED THAT:

Pursuant to the authority delegated by Water Code section 13267(f), Resolution 2002-0104, and Order 2006-0003-DWQ, the MRP for the SSS WDRs (Order 2006-0003-DWQ) is hereby amended as shown in Attachment A and shall be effective on September 9, 2013.

8/6/13

Date


Thomas Howard
Executive Director

³ California Integrated Water Quality System (CIWQS) publicly available at <http://www.waterboards.ca.gov/ciwqs/publicreports.shtml>

⁴ Statewide Sanitary Sewer Overflow Reduction Program information is available at: http://www.waterboards.ca.gov/water_issues/programs/ssol/

ATTACHMENT A

STATE WATER RESOURCES CONTROL BOARD ORDER NO. WQ 2013-0058-EXEC

AMENDING MONITORING AND REPORTING PROGRAM FOR STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR SANITARY SEWER SYSTEMS

This Monitoring and Reporting Program (MRP) establishes monitoring, record keeping, reporting and public notification requirements for Order 2006-0003-DWQ, “Statewide General Waste Discharge Requirements for Sanitary Sewer Systems” (SSS WDRs). This MRP shall be effective from September 9, 2013 until it is rescinded. The Executive Director may make revisions to this MRP at any time. These revisions may include a reduction or increase in the monitoring and reporting requirements. All site specific records and data developed pursuant to the SSS WDRs and this MRP shall be complete, accurate, and justified by evidence maintained by the enrollee. Failure to comply with this MRP may subject an enrollee to civil liabilities of up to \$5,000 a day per violation pursuant to Water Code section 13350; up to \$1,000 a day per violation pursuant to Water Code section 13268; or referral to the Attorney General for judicial civil enforcement. The State Water Resources Control Board (State Water Board) reserves the right to take any further enforcement action authorized by law.

A. SUMMARY OF MRP REQUIREMENTS

Table 1 – Spill Categories and Definitions

CATEGORIES	DEFINITIONS [see Section A on page 5 of Order 2006-0003-DWQ, for Sanitary Sewer Overflow (SSO) definition]
CATEGORY 1	Discharges of untreated or partially treated wastewater of <u>any volume</u> resulting from an enrollee’s sanitary sewer system failure or flow condition that: <ul style="list-style-type: none"> • Reach surface water and/or reach a drainage channel tributary to a surface water; or • Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).
CATEGORY 2	Discharges of untreated or partially treated wastewater of <u>1,000 gallons or greater</u> resulting from an enrollee’s sanitary sewer system failure or flow condition that <u>do not</u> reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.
CATEGORY 3	All other discharges of untreated or partially treated wastewater resulting from an enrollee’s sanitary sewer system failure or flow condition.
PRIVATE LATERAL SEWAGE DISCHARGE (PLSD)	Discharges of untreated or partially treated wastewater resulting from blockages or other problems <u>within a privately owned sewer lateral</u> connected to the enrollee’s sanitary sewer system or from other private sewer assets. PLSDs that the enrollee becomes aware of may be <u>voluntarily</u> reported to the California Integrated Water Quality System (CIWQS) Online SSO Database.

Table 2 – Notification, Reporting, Monitoring, and Record Keeping Requirements

ELEMENT	REQUIREMENT	METHOD
NOTIFICATION (see section B of MRP)	<ul style="list-style-type: none"> • Within two hours of becoming aware of any Category 1 SSO greater than or equal to 1,000 gallons discharged to surface water or spilled in a location where it probably will be discharged to surface water, notify the California Office of Emergency Services (Cal OES) and obtain a notification control number. 	Call Cal OES at: (800) 852-7550
REPORTING (see section C of MRP)	<ul style="list-style-type: none"> • Category 1 SSO: Submit draft report within three business days of becoming aware of the SSO and certify within 15 calendar days of SSO end date. • Category 2 SSO: Submit draft report within 3 business days of becoming aware of the SSO and certify within 15 calendar days of the SSO end date. • Category 3 SSO: Submit certified report within 30 calendar days of the end of month in which SSO the occurred. • SSO Technical Report: Submit within 45 calendar days after the end date of any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. • “No Spill” Certification: Certify that no SSOs occurred within 30 calendar days of the end of the month or, if reporting quarterly, the quarter in which no SSOs occurred. • Collection System Questionnaire: Update and certify every 12 months. 	Enter data into the CIWQS Online SSO Database (http://ciwqs.waterboards.ca.gov/), certified by enrollee’s Legally Responsible Official(s).
WATER QUALITY MONITORING (see section D of MRP)	<ul style="list-style-type: none"> • Conduct water quality sampling within 48 hours after initial SSO notification for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters. 	Water quality results are required to be uploaded into CIWQS for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.
RECORD KEEPING (see section E of MRP)	<ul style="list-style-type: none"> • SSO event records. • Records documenting Sanitary Sewer Management Plan (SSMP) implementation and changes/updates to the SSMP. • Records to document Water Quality Monitoring for SSOs of 50,000 gallons or greater spilled to surface waters. • Collection system telemetry records if relied upon to document and/or estimate SSO Volume. 	Self-maintained records shall be available during inspections or upon request.

B. NOTIFICATION REQUIREMENTS

Although Regional Water Quality Control Boards (Regional Water Boards) and the State Water Board (collectively, the Water Boards) staff do not have duties as first responders, this MRP is an appropriate mechanism to ensure that the agencies that have first responder duties are notified in a timely manner in order to protect public health and beneficial uses.

1. For any Category 1 SSO greater than or equal to 1,000 gallons that results in a discharge to a surface water or spilled in a location where it probably will be discharged to surface water, either directly or by way of a drainage channel or MS4, the enrollee shall, as soon as possible, but not later than two (2) hours after (A) the enrollee has knowledge of the discharge, (B) notification is possible, and (C) notification can be provided without substantially impeding cleanup or other emergency measures, notify the Cal OES and obtain a notification control number.
2. To satisfy notification requirements for each applicable SSO, the enrollee shall provide the information requested by Cal OES before receiving a control number. Spill information requested by Cal OES may include:
 - i. Name of person notifying Cal OES and direct return phone number.
 - ii. Estimated SSO volume discharged (gallons).
 - iii. If ongoing, estimated SSO discharge rate (gallons per minute).
 - iv. SSO Incident Description:
 - a. Brief narrative.
 - b. On-scene point of contact for additional information (name and cell phone number).
 - c. Date and time enrollee became aware of the SSO.
 - d. Name of sanitary sewer system agency causing the SSO.
 - e. SSO cause (if known).
 - v. Indication of whether the SSO has been contained.
 - vi. Indication of whether surface water is impacted.
 - vii. Name of surface water impacted by the SSO, if applicable.
 - viii. Indication of whether a drinking water supply is or may be impacted by the SSO.
 - ix. Any other known SSO impacts.
 - x. SSO incident location (address, city, state, and zip code).
3. Following the initial notification to Cal OES and until such time that an enrollee certifies the SSO report in the CIWQS Online SSO Database, the enrollee shall provide updates to Cal OES regarding substantial changes to the estimated volume of untreated or partially treated sewage discharged and any substantial change(s) to known impact(s).
4. PLSDs: The enrollee is strongly encouraged to notify Cal OES of discharges greater than or equal to 1,000 gallons of untreated or partially treated wastewater that result or may result in a discharge to surface water resulting from failures or flow conditions within a privately owned sewer lateral or from other private sewer asset(s) if the enrollee becomes aware of the PLSD.

C. **REPORTING REQUIREMENTS**

1. **CIWQS Online SSO Database Account:** All enrollees shall obtain a CIWQS Online SSO Database account and receive a “Username” and “Password” by registering through CIWQS. These accounts allow controlled and secure entry into the CIWQS Online SSO Database.
2. **SSO Mandatory Reporting Information:** For reporting purposes, if one SSO event results in multiple appearance points in a sewer system asset, the enrollee shall complete one SSO report in the CIWQS Online SSO Database which includes the GPS coordinates for the location of the SSO appearance point closest to the failure point, blockage or location of the flow condition that caused the SSO, and provide descriptions of the locations of all other discharge points associated with the SSO event.
3. **SSO Categories**
 - i. **Category 1** – Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee’s sanitary sewer system failure or flow condition that:
 - a. Reach surface water and/or reach a drainage channel tributary to a surface water; or
 - b. Reach a MS4 and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).
 - ii. **Category 2** – Discharges of untreated or partially treated wastewater greater than or equal to 1,000 gallons resulting from an enrollee’s sanitary sewer system failure or flow condition that does not reach a surface water, a drainage channel, or the MS4 unless the entire SSO volume discharged to the storm drain system is fully recovered and disposed of properly.
 - iii. **Category 3** – All other discharges of untreated or partially treated wastewater resulting from an enrollee’s sanitary sewer system failure or flow condition.
4. **Sanitary Sewer Overflow Reporting to CIWQS - Timeframes**
 - i. **Category 1 and Category 2 SSOs** – All SSOs that meet the above criteria for Category 1 or Category 2 SSOs shall be reported to the CIWQS Online SSO Database:
 - a. Draft reports for Category 1 and Category 2 SSOs shall be submitted to the CIWQS Online SSO Database within three (3) business days of the enrollee becoming aware of the SSO. Minimum information that shall be reported in a draft Category 1 SSO report shall include all information identified in section 8.i.a. below. Minimum information that shall be reported in a Category 2 SSO draft report shall include all information identified in section 8.i.c below.
 - b. A final Category 1 or Category 2 SSO report shall be certified through the CIWQS Online SSO Database within 15 calendar days of the end date of the SSO. Minimum information that shall be certified in the final Category 1 SSO report shall include all information identified in section 8.i.b below. Minimum information that shall be certified in a final Category 2 SSO report shall include all information identified in section 8.i.d below.

- ii. **Category 3 SSOs** – All SSOs that meet the above criteria for Category 3 SSOs shall be reported to the CIWQS Online SSO Database and certified within 30 calendar days after the end of the calendar month in which the SSO occurs (e.g., all Category 3 SSOs occurring in the month of February shall be entered into the database and certified by March 30). Minimum information that shall be certified in a final Category 3 SSO report shall include all information identified in section 8.i.e below.
- iii. **“No Spill” Certification** – If there are no SSOs during the calendar month, the enrollee shall either 1) certify, within 30 calendar days after the end of each calendar month, a “No Spill” certification statement in the CIWQS Online SSO Database certifying that there were no SSOs for the designated month, or 2) certify, quarterly within 30 calendar days after the end of each quarter, “No Spill” certification statements in the CIWQS Online SSO Database certifying that there were no SSOs for each month in the quarter being reported on. For quarterly reporting, the quarters are Q1 - January/ February/ March, Q2 - April/May/June, Q3 - July/August/September, and Q4 - October/November/December.

If there are no SSOs during a calendar month but the enrollee reported a PLSD, the enrollee shall still certify a “No Spill” certification statement for that month.
- iv. **Amended SSO Reports** – The enrollee may update or add additional information to a certified SSO report within 120 calendar days after the SSO end date by amending the report or by adding an attachment to the SSO report in the CIWQS Online SSO Database. SSO reports certified in the CIWQS Online SSO Database prior to the adoption date of this MRP may only be amended up to 120 days after the effective date of this MRP. After 120 days, the enrollee may contact the SSO Program Manager to request to amend an SSO report if the enrollee also submits justification for why the additional information was not available prior to the end of the 120 days.

5. **SSO Technical Report**

The enrollee shall submit an SSO Technical Report in the CIWQS Online SSO Database within 45 calendar days of the SSO end date for any SSO in which 50,000 gallons or greater are spilled to surface waters. This report, which does not preclude the Water Boards from requiring more detailed analyses if requested, shall include at a minimum, the following:

- i. **Causes and Circumstances of the SSO:**
 - a. Complete and detailed explanation of how and when the SSO was discovered.
 - b. Diagram showing the SSO failure point, appearance point(s), and final destination(s).
 - c. Detailed description of the methodology employed and available data used to calculate the volume of the SSO and, if applicable, the SSO volume recovered.
 - d. Detailed description of the cause(s) of the SSO.
 - e. Copies of original field crew records used to document the SSO.
 - f. Historical maintenance records for the failure location.
- ii. **Enrollee’s Response to SSO:**
 - a. Chronological narrative description of all actions taken by enrollee to terminate the spill.
 - b. Explanation of how the SSMP Overflow Emergency Response plan was implemented to respond to and mitigate the SSO.

- c. Final corrective action(s) completed and/or planned to be completed, including a schedule for actions not yet completed.

iii. **Water Quality Monitoring:**

- a. Description of all water quality sampling activities conducted including analytical results and evaluation of the results.
- b. Detailed location map illustrating all water quality sampling points.

6. **PLSDs**

Discharges of untreated or partially treated wastewater resulting from blockages or other problems within a privately owned sewer lateral connected to the enrollee's sanitary sewer system or from other private sanitary sewer system assets may be voluntarily reported to the CIWQS Online SSO Database.

- i. The enrollee is also encouraged to provide notification to Cal OES per section B above when a PLSD greater than or equal to 1,000 gallons has or may result in a discharge to surface water. For any PLSD greater than or equal to 1,000 gallons regardless of the spill destination, the enrollee is also encouraged to file a spill report as required by Health and Safety Code section 5410 et. seq. and Water Code section 13271, or notify the responsible party that notification and reporting should be completed as specified above and required by State law.
- ii. If a PLSD is recorded in the CIWQS Online SSO Database, the enrollee must identify the sewage discharge as occurring and caused by a private sanitary sewer system asset and should identify a responsible party (other than the enrollee), if known. Certification of PLSD reports by enrollees is not required.

7. **CIWQS Online SSO Database Unavailability**

In the event that the CIWQS Online SSO Database is not available, the enrollee must fax or e-mail all required information to the appropriate Regional Water Board office in accordance with the time schedules identified herein. In such event, the enrollee must also enter all required information into the CIWQS Online SSO Database when the database becomes available.

8. **Mandatory Information to be Included in CIWQS Online SSO Reporting**

All enrollees shall obtain a CIWQS Online SSO Database account and receive a "Username" and "Password" by registering through CIWQS which can be reached at CIWQS@waterboards.ca.gov or by calling (866) 792-4977, M-F, 8 A.M. to 5 P.M. These accounts will allow controlled and secure entry into the CIWQS Online SSO Database. Additionally, within thirty (30) days of initial enrollment and prior to recording SSOs into the CIWQS Online SSO Database, all enrollees must complete a Collection System Questionnaire (Questionnaire). The Questionnaire shall be updated at least once every 12 months.

i. **SSO Reports**

At a minimum, the following mandatory information shall be reported prior to finalizing and certifying an SSO report for each category of SSO:

- a. **Draft Category 1 SSOs**: At a minimum, the following mandatory information shall be reported for a draft Category 1 SSO report:
1. SSO Contact Information: Name and telephone number of enrollee contact person who can answer specific questions about the SSO being reported.
 2. SSO Location Name.
 3. Location of the overflow event (SSO) by entering GPS coordinates. If a single overflow event results in multiple appearance points, provide GPS coordinates for the appearance point closest to the failure point and describe each additional appearance point in the SSO appearance point explanation field.
 4. Whether or not the SSO reached surface water, a drainage channel, or entered and was discharged from a drainage structure.
 5. Whether or not the SSO reached a municipal separate storm drain system.
 6. Whether or not the total SSO volume that reached a municipal separate storm drain system was fully recovered.
 7. Estimate of the SSO volume, inclusive of all discharge point(s).
 8. Estimate of the SSO volume that reached surface water, a drainage channel, or was not recovered from a storm drain.
 9. Estimate of the SSO volume recovered (if applicable).
 10. Number of SSO appearance point(s).
 11. Description and location of SSO appearance point(s). If a single sanitary sewer system failure results in multiple SSO appearance points, each appearance point must be described.
 12. SSO start date and time.
 13. Date and time the enrollee was notified of, or self-discovered, the SSO.
 14. Estimated operator arrival time.
 15. For spills greater than or equal to 1,000 gallons, the date and time Cal OES was called.
 16. For spills greater than or equal to 1,000 gallons, the Cal OES control number.
- b. **Certified Category 1 SSOs**: At a minimum, the following mandatory information shall be reported for a certified Category 1 SSO report, in addition to all fields in section 8.i.a :
1. Description of SSO destination(s).
 2. SSO end date and time.
 3. SSO causes (mainline blockage, roots, etc.).
 4. SSO failure point (main, lateral, etc.).
 5. Whether or not the spill was associated with a storm event.
 6. Description of spill corrective action, including steps planned or taken to reduce, eliminate, and prevent reoccurrence of the overflow; and a schedule of major milestones for those steps.
 7. Description of spill response activities.
 8. Spill response completion date.
 9. Whether or not there is an ongoing investigation, the reasons for the investigation and the expected date of completion.

10. Whether or not a beach closure occurred or may have occurred as a result of the SSO.
 11. Whether or not health warnings were posted as a result of the SSO.
 12. Name of beach(es) closed and/or impacted. If no beach was impacted, NA shall be selected.
 13. Name of surface water(s) impacted.
 14. If water quality samples were collected, identify parameters the water quality samples were analyzed for. If no samples were taken, NA shall be selected.
 15. If water quality samples were taken, identify which regulatory agencies received sample results (if applicable). If no samples were taken, NA shall be selected.
 16. Description of methodology(ies) and type of data relied upon for estimations of the SSO volume discharged and recovered.
 17. SSO Certification: Upon SSO Certification, the CIWQS Online SSO Database will issue a final SSO identification (ID) number.
- c. **Draft Category 2 SSOs:** At a minimum, the following mandatory information shall be reported for a draft Category 2 SSO report:
1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO.
- d. **Certified Category 2 SSOs:** At a minimum, the following mandatory information shall be reported for a certified Category 2 SSO report:
1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO and Items 1-9, and 17 in section 8.i.b above for Certified Category 1 SSO.
- e. **Certified Category 3 SSOs:** At a minimum, the following mandatory information shall be reported for a certified Category 3 SSO report:
1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO and Items 1-5, and 17 in section 8.i.b above for Certified Category 1 SSO.

ii. **Reporting SSOs to Other Regulatory Agencies**

These reporting requirements do not preclude an enrollee from reporting SSOs to other regulatory agencies pursuant to state law. In addition, these reporting requirements do not replace other Regional Water Board notification and reporting requirements for SSOs.

iii. **Collection System Questionnaire**

The required Questionnaire (see subsection G of the SSS WDRs) provides the Water Boards with site-specific information related to the enrollee's sanitary sewer system. The enrollee shall complete and certify the Questionnaire at least every 12 months to facilitate program implementation, compliance assessment, and enforcement response.

iv. **SSMP Availability**

The enrollee shall provide the publicly available internet web site address to the CIWQS Online SSO Database where a downloadable copy of the enrollee's approved SSMP, critical supporting documents referenced in the SSMP, and proof of local governing board approval of the SSMP is posted. If all of the SSMP documentation listed in this subsection is not publicly available on the Internet, the enrollee shall comply with the following procedure:

- a. Submit an **electronic** copy of the enrollee's approved SSMP, critical supporting documents referenced in the SSMP, and proof of local governing board approval of the SSMP to the State Water Board, within 30 days of that approval and within 30 days of any subsequent SSMP re-certifications, to the following mailing address:

State Water Resources Control Board
Division of Water Quality
Attn: SSO Program Manager
1001 I Street, 15th Floor, Sacramento, CA 95814

D. WATER QUALITY MONITORING REQUIREMENTS:

To comply with subsection D.7(v) of the SSS WDRs, the enrollee shall develop and implement an SSO Water Quality Monitoring Program to assess impacts from SSOs to surface waters in which 50,000 gallons or greater are spilled to surface waters. The SSO Water Quality Monitoring Program, shall, at a minimum:

1. Contain protocols for water quality monitoring.
2. Account for spill travel time in the surface water and scenarios where monitoring may not be possible (e.g. safety, access restrictions, etc.).
3. Require water quality analyses for ammonia and bacterial indicators to be performed by an accredited or certified laboratory.
4. Require monitoring instruments and devices used to implement the SSO Water Quality Monitoring Program to be properly maintained and calibrated, including any records to document maintenance and calibration, as necessary, to ensure their continued accuracy.
5. Within 48 hours of the enrollee becoming aware of the SSO, require water quality sampling for, at a minimum, the following constituents:
 - i. Ammonia
 - ii. Appropriate Bacterial indicator(s) per the applicable Basin Plan water quality objective or Regional Board direction which may include total and fecal coliform, enterococcus, and e-coli.

E. RECORD KEEPING REQUIREMENTS:

The following records shall be maintained by the enrollee for a minimum of five (5) years and shall be made available for review by the Water Boards during an onsite inspection or through an information request:

1. General Records: The enrollee shall maintain records to document compliance with all provisions of the SSS WDRs and this MRP for each sanitary sewer system owned including any required records generated by an enrollee's sanitary sewer system contractor(s).
2. SSO Records: The enrollee shall maintain records for each SSO event, including but not limited to:
 - i. Complaint records documenting how the enrollee responded to all notifications of possible or actual SSOs, both during and after business hours, including complaints that do not

result in SSOs. Each complaint record shall, at a minimum, include the following information:

- a. Date, time, and method of notification.
 - b. Date and time the complainant or informant first noticed the SSO.
 - c. Narrative description of the complaint, including any information the caller can provide regarding whether or not the complainant or informant reporting the potential SSO knows if the SSO has reached surface waters, drainage channels or storm drains.
 - d. Follow-up return contact information for complainant or informant for each complaint received, if not reported anonymously.
 - e. Final resolution of the complaint.
- ii. Records documenting steps and/or remedial actions undertaken by enrollee, using all available information, to comply with section D.7 of the SSS WDRs.
 - iii. Records documenting how all estimate(s) of volume(s) discharged and, if applicable, volume(s) recovered were calculated.
3. Records documenting all changes made to the SSMP since its last certification indicating when a subsection(s) of the SSMP was changed and/or updated and who authorized the change or update. These records shall be attached to the SSMP.
 4. Electronic monitoring records relied upon for documenting SSO events and/or estimating the SSO volume discharged, including, but not limited to records from:
 - i. Supervisory Control and Data Acquisition (SCADA) systems
 - ii. Alarm system(s)
 - iii. Flow monitoring device(s) or other instrument(s) used to estimate wastewater levels, flow rates and/or volumes.

F. CERTIFICATION

1. All information required to be reported into the CIWQS Online SSO Database shall be certified by a person designated as described in subsection J of the SSS WDRs. This designated person is also known as a Legally Responsible Official (LRO). An enrollee may have more than one LRO.
2. Any designated person (i.e. an LRO) shall be registered with the State Water Board to certify reports in accordance with the CIWQS protocols for reporting.
3. Data Submitter (DS): Any enrollee employee or contractor may enter draft data into the CIWQS Online SSO Database on behalf of the enrollee if authorized by the LRO and registered with the State Water Board. However, only LROs may certify reports in CIWQS.
4. The enrollee shall maintain continuous coverage by an LRO. Any change of a registered LRO or DS (e.g., retired staff), including deactivation or a change to the LRO's or DS's contact information, shall be submitted by the enrollee to the State Water Board within 30 days of the change by calling (866) 792-4977 or e-mailing help@ciwqs.waterboards.ca.gov.

5. A registered designated person (i.e., an LRO) shall certify all required reports under penalty of perjury laws of the state as stated in the CIWQS Online SSO Database at the time of certification.

CERTIFICATION

The undersigned Clerk to the Board does hereby certify that the foregoing is a full, true, and correct copy of an order amended by the Executive Director of the State Water Resources Control Board.

7/30/13

Date



Jeanine Townsend
Clerk to the Board

FACT SHEET

STATE WATER RESOURCES CONTROL BOARD

ORDER NO. 2006-0003

STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR SANITARY SEWER SYSTEMS

The State Water Resources Control Board (State Water Board) adopted Resolution 2004-80 in November 2004, requiring staff to work with a diverse group of stakeholders (known as the SSO Guidance Committee) to develop a regulatory mechanism to provide a consistent statewide approach for reducing Sanitary Sewer Overflows (SSOs). Over the past 14 months, State Water Board staff in collaboration with the SSO Guidance Committee, developed draft statewide general waste discharge requirements (WDRs) and a reporting program. The WDRs and reporting program reflect numerous ideas, opinions, and comments provided by the SSO Guidance Committee.

The SSO Guidance Committee consists of representatives from the State Water Board's Office of Chief Counsel, several Regional Water Quality Control Boards (Regional Water Boards), United States Environmental Protection Agency (USEPA), Region IX, non-governmental environmental organizations, as well as publicly-owned sanitary sewer collection system agencies. The draft WDRs, reporting program, and associated documents result from a collaborative attempt to create a robust and rigorous program, which will serve as the basis for consistent and appropriate management and operation of sanitary sewer systems.

During the collaborative process, several key issues regarding the draft WDRs were identified. These include:

- Is there a need for statewide collection system requirements?
- Should these systems be regulated under a National Pollutant Discharge Elimination System (NPDES) permit issued pursuant to the Federal Clean Water Act or under WDRs issued pursuant to the California Water Code (the Porter-Cologne Water Quality Control Act or Porter-Cologne)?
- Should the regulatory mechanism include a prohibition of discharge and, if so, should the prohibition encompass only SSOs that reach surface waters, ground water, or should all SSOs be prohibited?
- Should a regulatory mechanism include a permitted discharge, an affirmative defense, or explicit enforcement discretion?
- Should the regulated facilities include publicly-owned facilities, privately owned facilities, satellite systems (public and private), and/or private laterals?

- Should all SSOs be reported, and if not, what should the reporting thresholds be; and what should the reporting timeframes be?
- How will existing permits and reporting requirements incorporate these new WDRs?
- How much will compliance with these new WDRs cost?

The WDRs and Reporting Program considered the comments of all stakeholders and others who commented on the two drafts circulated to the public. These documents also incorporate legal requirements and other revisions to improve the effectiveness and management of the regulatory program. Following is a discussion of the above issues, comments received on the drafts and an explanation of how issues were resolved.

The Need

As California's wastewater collection system infrastructure begins to age, the need to proactively manage this valuable asset becomes increasingly important. The first step in this process is to have a reliable reporting system for SSOs. Although there are some data systems to record spills and various spill-reporting requirements have been developed, inconsistent requirements and enforcement have led to poor data quality. A few Regional Water Boards have comprehensively tracked SSOs over the last three to five years, and from this information we have been able to determine that the majority of collection systems surveyed have had SSOs within this time period.

Both the San Diego and Santa Ana Regional Water Boards have issued WDRs over the last several years to begin regulating wastewater collection systems in an attempt to quantify and reduce SSOs. In fact, 44 out of 46 collection system agencies regulated by the San Diego Regional Water Board have reported spills over the last four and a half years, resulting in 1467 reported SSOs. Twenty-five out of 27 collection system agencies subject to the Santa Ana Regional Water Board's general WDRs reported SSOs between the years of 1999-2004. During this time period, 1012 SSOs were reported.

The 2004 Annual Ocean and Bay Water Quality Report issued by the Orange County Environmental Health Care Agency shows the number of SSOs increasing from 245 in 1999 to 399 in 2003. While this number indicates a concerning trend, the total annual spill volume from these SSOs has actually decreased dramatically, as has the number of beach closures due to SSOs. It is likely, therefore, that the rise in number of SSOs reflects better reporting, and not an actual increase in the number of SSOs.

This information also suggests that the Santa Ana Regional Water Board's WDRs, which contain sanitary sewer management plan (SSMP) requirements similar to those in the proposed statewide general WDRs, have been effective in

not only increasing the number of spills that are reported but also in mitigating the impacts of SSOs that do occur.

Data supports the conclusion that virtually all collection systems have SSOs and that implementation of a regulatory measure requiring SSO reporting and collection system management, along with required measures to limit SSOs, will greatly benefit California water quality. Implementation of these requirements will also greatly benefit and prolong the useful life of the sanitary sewer system, one of California's most valuable infrastructure items.

NPDES vs. WDRs

Porter-Cologne subjects a broader range of waste discharges to regulation than the Federal Clean Water Act. In general, the Clean Water Act prohibits the discharge of pollutants from point sources to surface waters of the United States unless authorized under an NPDES permit. (33 U.S.C. §§1311, 1342). Since not all SSOs result in a discharge to surface water, however, not all SSOs violate the Clean Water Act's NPDES permitting requirements. Porter-Cologne, on the other hand, covers all existing and proposed waste discharges that could affect the quality of state waters, including both surface waters and groundwater. (Wat. Code §§13050(e), 13260). Hence, under Porter-Cologne, a greater SSO universe is potentially subject to regulation under WDRs. In addition, WDRs under Porter-Cologne can address both protection of water quality as well as the prevention of public nuisance associated with waste disposal. (*Id.* §13263).

Some commenters contend that because all collection systems have the potential to overflow to surface waters the systems should be regulated under an NPDES permit. A recent decision by the United States Court of Appeals for the 2nd Circuit, however, has called into question the states' and USEPA's ability to regulate discharges that are only "potential" under an NPDES permit. In *Waterkeeper Alliance v. United States Environmental Protection Agency* (2005) 399 F.3d 486, 504-506, the appellate court held that USEPA can only require permits for animal feedlots with "an actual addition" of pollutants to surface waters. While this decision may not be widely followed, especially in the area of SSOs, these are clearly within the jurisdiction of the California Water Code.

USEPA defines a publicly owned treatment works (POTW) as both the wastewater treatment facility and its associated sanitary sewer system (40 C.F.R. §403.3(o)¹). Historically, only the portion of the sanitary sewer system that is owned by the same agency that owns the permitted wastewater treatment facility has been subject to NPDES permit requirements. Satellite sewer collection systems (i.e. systems not owned or operated by the POTW) have not been

¹ The regulation provides that a POTW include sewers, pipes, and other conveyances only if they convey wastewater to a POTW.

typically regulated as part of the POTW and, therefore, have not generally been subject to NPDES permit requirements.

Comments were received that argued every collection system leading to a POTW that is subject to an NPDES permit should also be permitted based upon the USEPA definition of POTW. Under this theory, all current POTW NPDES permits could be expanded to include all satellite sewer collection systems, or alternatively, the satellite system owners or operators could be permitted separately. However, this interpretation is not widely accepted and USEPA has no official guidance to this fact.

There are also many wastewater treatment facilities within California that do not have discharges to surface water, but instead use percolation ponds, spray irrigation, wastewater reclamation, or other means to dispose of the treated effluent. These facilities, and their satellite systems, are not subject to the NPDES permitting process and could not be subject to a statewide general NPDES permit. POTWs that fall into this category, though, can be regulated under Porter-Cologne and do have WDRs.

In light of these factors, the State Water Board has determined that the best approach is to propose statewide general WDRs at this time.

Prohibition of Discharge

The Clean Water Act prohibits the discharge of wastewater to surface waters except as authorized under an NPDES permit. POTWs must achieve secondary treatment, at a minimum, and any more stringent limitations that are necessary to achieve water quality standards. (33 U.S.C. §1311(b)(1)(B) and (C)). Thus, an SSO that results in the discharge of raw sewage to surface waters is prohibited under the Clean Water Act.

Additionally, California Water Code section 13263 requires the State Water Board to, after any necessary hearing, prescribe requirements as to the nature of any proposed discharge, existing discharge, or material change in an existing discharge. The requirements shall, among other things, take into consideration the need to prevent nuisance.

California Water Code section 13050 (m), defines nuisance as anything which meets all of the following requirements:

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

- c. Occurs during, or as a result of, the treatment or disposal of wastes.

Some SSOs do create a nuisance as defined in state law. Therefore, based upon these statutory requirements, the WDRs include prohibitions in Section C. of the WDRs. Section C. states:

C. PROHIBITIONS

1. Any SSO that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited.
2. Any SSO that results in a discharge of untreated or partially treated wastewater, which creates a nuisance as defined in California Water Code section 13050(m) is prohibited.

Furthermore, the State Water Board acknowledges the potential for more stringent water quality standards that may exist pursuant to a Regional Water Board requirement. Language included in Section D.2 of the WDRs allows for these more stringent instances.

D. PROVISIONS

2. It is the intent of the State Water Board that sanitary sewer systems be regulated in a manner consistent with the general WDRs. Nothing in the general WDRs shall be:
 - (i) Interpreted or applied in a manner inconsistent with the Federal Clean Water Act, or supersede a more specific or more stringent state or federal requirement in an existing permit, regulation, or administrative/judicial order or Consent Decree;
 - (ii) Interpreted or applied to authorize an SSO that is illegal under either the Clean Water Act, an applicable Basin Plan prohibition or water quality standard, or the California Water Code;
 - (iii) Interpreted or applied to prohibit a Regional Water Board from issuing an individual NPDES permit or WDRs, superseding the general WDRs, for a sanitary sewer system, authorized under the Clean Water Act or California Water Code; or
 - (iv) Interpreted or applied to supersede any more specific or more stringent WDRs or enforcement order issued by a Regional Water Board.

Permitted Discharge, Affirmative Defense, and Enforcement Discretion

Commenters from the discharger community have requested inclusion of an affirmative defense to an SSO on the grounds that certain SSO events are unforeseen and unavoidable, such as SSOs due to extreme wet weather events. An affirmative defense is a mechanism whereby conduct that otherwise violates WDRs or a permit will be excused, and not subject to an enforcement action, under certain circumstances. Since many collection system industry experts believe that not all SSOs may be prevented, given certain circumstances (such as unforeseen vandalism, extreme wet weather, or other acts of God), many

collection system owner representatives believe this should formally be recognized by including an affirmative defense for these unavoidable SSOs.

Previous informal drafts of the general WDRs included affirmative defense language, which was contingent upon appropriate development and implementation of sanitary sewer management plan (SSMP) requirements, as well as a demonstration that the SSO was exceptional and unavoidable. Other stakeholders, including USEPA and the environmental groups opposed the concept of an affirmative defense for SSOs. They argued that its inclusion in the WDRs would undermine the Clean Water Act and inappropriately limit both Regional Water Board and third party enforcement.

After considering input from all stakeholders, and consulting with USEPA, staff is not recommending inclusion of an affirmative defense. Rather, the draft WDRs incorporate the concept of enforcement discretion, and explicitly identify what factors must be considered during any civil enforcement proceeding. The enforcement discretion portion of the WDRs is contained within Sections D. 6 and 7, and is consistent with enforcement discretion provisions within the California Water Code.

Facilities Subject to WDRs

Collection systems consist of pipelines and their appurtenances, which are intended to transport untreated wastewater to both publicly-owned and private wastewater treatment facilities. While wastewater treatment facilities are owned by a wide variety of public and private entities, public agencies (state and federal agencies, cities, counties, and special districts) own the vast majority of this infrastructure.

Collection systems that transport wastewater to POTWs could be grouped into four different categories:

1. Publicly-owned treatment works – pipelines and appurtenances that are owned by a public agency that also owns a wastewater treatment facility;
2. Publicly-owned satellites – pipelines and appurtenances that are owned by a public agency that does not own a wastewater treatment facility; and
3. Private laterals - pipelines and appurtenances that are not owned by a public agency, but rather discharge into one of the above types of facilities.
4. Privately owned treatment works – pipelines and appurtenances that are owned by a private entity, which also owns a wastewater treatment facility (often a septic tank and leach field).

The WDRs require all public agencies, which own wastewater collection systems (category 1 and 2 above) to enroll in the WDRs. Privately owned systems (categories 3 and 4) are not subject to the WDRs; however, a Regional Water

Board may at its discretion issue WDRs to these facilities on a case-by-case or region wide basis.

Collection systems discharging into POTWs (categories 1, 2, and 3) represent, by far, the greatest amount of collection system infrastructure within California. Since regulating private entities (categories 3 and 4) on a statewide basis would be unmanageable and impractical (because of the extremely large number and lack of contact information and other associated records), staff believes focusing on the public sector is the best option for meaningful and consistent outcomes. The legal authority and reporting provisions contained in the WDR do require limited oversight of private laterals (category 3) by public entities. Given this limited responsibility of oversight, public entities are not responsible or liable for private laterals.

State Water Board staff will notify all known public agencies that own wastewater collection systems, regarding their obligation to enroll under these WDRs. However, because of data inaccuracies, State Water Board staff may inadvertently not contact an agency that should enroll in the WDRs or erroneously contact a public agency that does not own a collection system. Staff will make every effort to accurately identify public agencies. In the event that a public agency is overlooked or omitted, however, it is the agency's responsibility to contact the State Water Board for information on the application process. An agency can find the appropriate contact by visiting the State Water Board's SSO homepage at www.waterboards.ca.gov/ss0.

SSO Reporting

SSOs can be distinguished between those that impact water quality and/or create a nuisance, and those that are indicators of collection system performance. Additionally, SSO liability is attributed to either private entities (homeowners, businesses, private communities, etc...) or public entities. Although all types of SSOs are important to track, the reporting time frames and the type of information that need to be conveyed differ.

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

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

Incorporating Existing Permits

It is the State Water Board's intent to have one statewide regulatory mechanism that lays out the foundation for consistent collection system management requirements and SSO reporting. While there are a significant number of collection systems that are not actively regulated by the State or Regional Water Boards, some efforts have been made to regulate these agencies on a facility-by-facility or region-by-region basis. General WDRs, individual WDRs, NPDES permits, and enforcement orders that specifically include collections systems are mechanisms that have been used to regulate collection system overflows.

However, because of these varying levels of regulatory oversight, confusion exists among collection system owners as to regulatory expectations on a consistent and uniform basis (especially with reporting spills). Currently, there are a myriad of different SSO reporting thresholds and a number of different spill report repositories. Because of the varying levels of reporting thresholds and the lack of a common database to capture this information, an accurate picture of SSOs throughout California is unobtainable.

In order to provide a consistent and effective SSO prevention program, as well as to develop reasonable expectations for collection system management, these General WDRs should be the primary regulatory mechanism to regulate public collection systems. The draft WDRs detail requirements associated with SSMP development and implementation and SSO reporting.

All NPDES permits for POTWs currently include federally required standard conditions, three of which apply to collection systems. NPDES permits must clarify that the following three conditions apply to that part of the collection system that is owned or operated by the POTW owner or operator. These conditions are:

- Duty to mitigate discharges (40 CFR 122.41(d))
- Requirement to properly operate and maintain facilities (40 CFR 122.41(e))
- Requirement to report non-compliance (40 CFR 122.41(l)(6) and (7))

Understandably, revising existing regulatory measures will not occur immediately. However, as time allows and, at a minimum, upon readopting existing WDRs or WDRs that serve as NPDES permits, the Regional Water Boards should rescind redundant or inconsistent collection system requirements. In addition, the Regional Water Boards must ensure that existing NPDES permits clarify that the three standard permit provisions discussed above apply to the permittee's collection system.

Although it is the State Water Board's intent that this Order be the primary regulatory mechanism for sanitary sewer systems statewide, there will be some instances when Regional Water Boards will need to impose more stringent or prescriptive requirements. In those cases, more specific or more stringent WDRs or an NPDES permit issued by a Regional Water Board will supersede this Order. Finding number 11, in the WDRs states:

11. Some Regional Water Boards have issued WDRs or WDRs that serve as National Pollution Discharge Elimination System (NPDES) permits to sanitary sewer system owners/operators within their jurisdictions. This Order establishes minimum requirements to prevent SSOs. Although it is the State Water Board's intent that this Order be the primary regulatory mechanism for sanitary sewer systems statewide, Regional Water Boards may issue more stringent or more prescriptive WDRs for sanitary sewer systems. Upon issuance or reissuance of a Regional Water Board's WDRs for a system subject to this Order, the Regional Water Board shall coordinate its requirements with stated requirements within this Order, to identify requirements that are more stringent, to remove requirements that are less stringent than this Order, and to provide consistency in reporting.

Cost of Compliance

While the proposed WDRs contain requirements for systems and programs that should be in place to effectively manage collection systems, many communities have not implemented various elements of a good management plan. Some agencies are doing an excellent job managing their collection systems and will incur very little additional costs. Other agencies will need to develop and implement additional programs and will incur greater costs. However, any additional costs that a public agency may incur in order to comply with these General WDRs are costs that an agency would necessarily incur to effectively manage and preserve its infrastructure assets, protect public health and prevent nuisance conditions. These General WDRs prescribe minimum management requirements that should be present in all well managed collection system agencies.

In order to estimate the compliance costs associated with the proposed WDRs, staff analyzed costs associated with implementing the Santa Ana Regional Water Board's general WDRs. Twenty-one agencies, which discharge to Orange County Sanitation District, submitted financial summaries for the last five years, representing both pre- and post-WDRs adoption. Operation and maintenance costs, program development costs, as well as capital improvement costs were

considered and fairly accurately represent what can be expected statewide with the adoption of the General WDRs.

After extrapolating the sample to yield a statewide cost perspective, the projected annual cost of implementing the statewide WDRs is approximately \$870 million. This total represents \$345.6 million in O&M costs and \$524.5 for capital improvement projects.

While this sum is substantial, presenting the costs on a per capita or per household basis puts the figure in perspective. Department of Finance estimated the total population for Californians that may be subject to the WDRs to be 30.3 million persons (1/1/05). Dividing the population by the approximate average household size of 2.5 yields 12 million households. The average household in California is assumed to be 2.5 persons. The increased average annual cost (in order to comply with these WDRs) per person is estimated to be \$28.74 and \$71.86 per household (or \$5.99 per month per household)

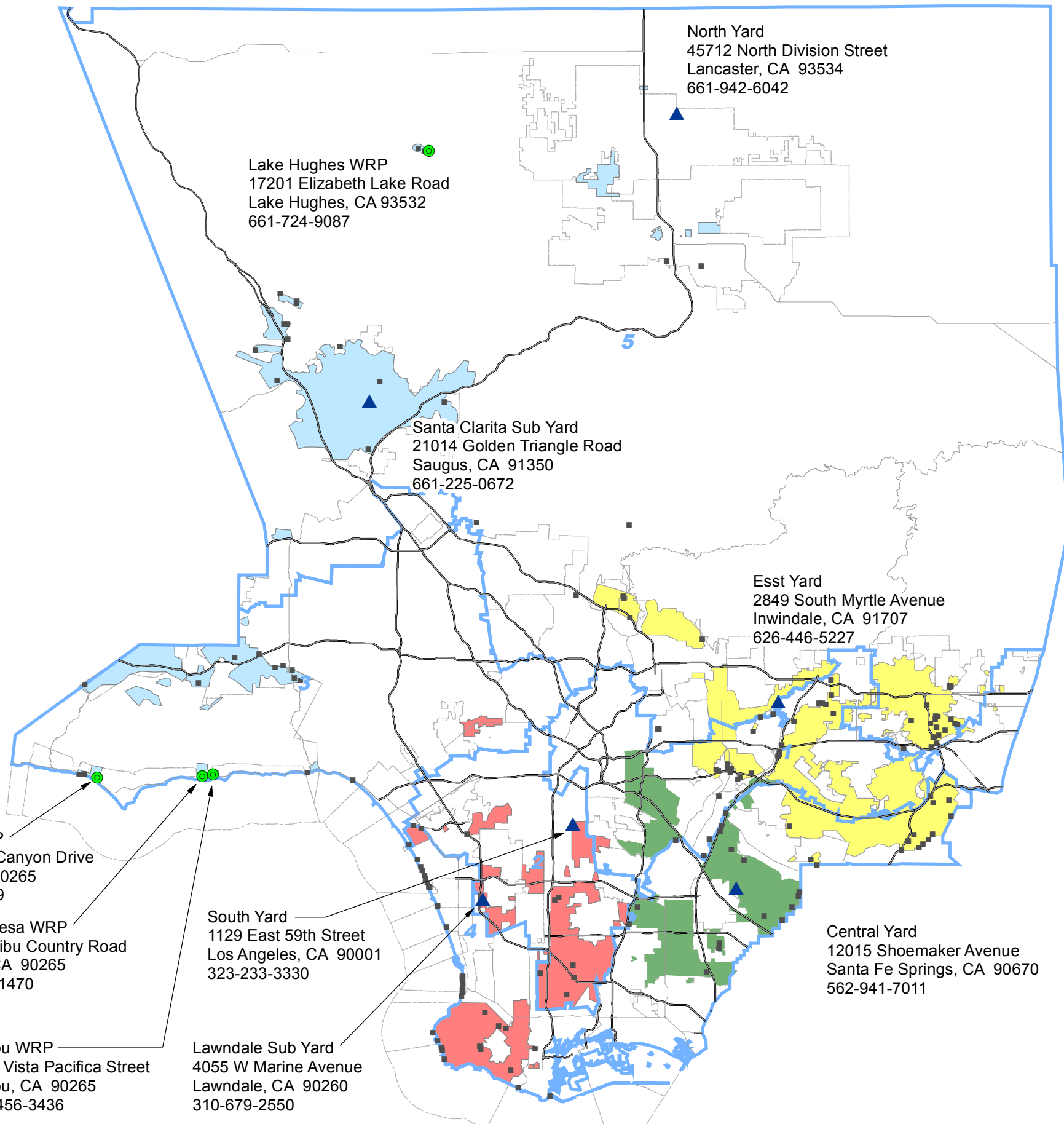
Given these average costs there will be some communities that realize higher costs on a per household basis and some that realize less cost. Furthermore, larger communities will probably also realize an economy of scale, which is dependent upon a community's size. While larger communities may see lower costs associated with compliance, smaller communities will probably see a higher cost associated with compliance. Costs for compliance in small communities may be as high as \$40 per month per household.

APPENDIX B

LOCATION MAP FOR SEWER MAINTENANCE YARDS AND PUMP STATIONS

**County of Los Angeles
Department of Public Works
Sewer Maintenance Districts**

**Sewer
Maintenance
Facilities**



Legend

- ▲ SMD_Maintenance_Yards
- SMD Water Reclamation Plants
- SMD Pump Stations
- County Supervisorial Districts
- Cities

Sewer Maintenance Service Area

By Yard:

- North Yard
- South Yard
- East Yard
- Central Yard

Trancas WRP
6338 Paseo Canyon Drive
Malibu, CA 90265
310-457-6069

Malibu Mesa WRP
3863 Malibu Country Road
Malibu, CA 90265
310-456-1470

Malibu WRP
3620 Vista Pacifica Street
Malibu, CA 90265
310-456-3436

South Yard
1129 East 59th Street
Los Angeles, CA 90001
323-233-3330

Lawndale Sub Yard
4055 W Marine Avenue
Lawndale, CA 90260
310-679-2550

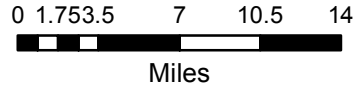
Lake Hughes WRP
17201 Elizabeth Lake Road
Lake Hughes, CA 93532
661-724-9087

Santa Clarita Sub Yard
21014 Golden Triangle Road
Saugus, CA 91350
661-225-0672

North Yard
45712 North Division Street
Lancaster, CA 93534
661-942-6042

Esst Yard
2849 South Myrtle Avenue
Inwindale, CA 91707
626-446-5227

Central Yard
12015 Shoemaker Avenue
Santa Fe Springs, CA 90670
562-941-7011



APPENDIX C
INVENTORY OF SEWER MAINTENANCE
DISTRICTS EQUIPMENT

**County of Los Angeles
Department of Public Works
DPW eCAPS Reporting System (DeRS)
ASSETS BY**

DIVISION: 49400 Sewer Maintenance Division - Administration
CUSTODIAN: PWCSIMMS
CUSTODIAN NAME: Capice Simms

TAG NUMBER	FA NUMBER	ASSET DESC	MANUFACTURER	MODEL NUMBER	SR NUMBER	LOC CD	LOC DESC	SLOC	FA TYPE	CUSTODIAN NAME	END USER	ACQ DATE	NET BOOK VALUE
06-349	E0019662	TRUCK 2010/FORD F-150 PICK UP EXT CAB 4X2	FORD	F-150	1FTFX1CV7AKE10786	I603	Irwindale - 2849 S. Myrtle Ave 91701 (SM East Yard)	9424	E	Capice Simms	SIMMS, CAPICE	07/13/2010	3,889.53
06-446	E0029393	TRUCK 2013/FORD F-150 EXT CAB 2WD PICKUP	FORD	F150	1FTFX1CT1DKF98918	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	SIMMS, CAPICE	01/06/2014	18,786.00
06-466	E0032370	TRUCK 2013/FORD F-150 EXT CAB 4X2 PICKUP	FORD	F-150	1FTFX1CF3DKG31671	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	BRANDFORD, PAUL	07/01/2014	17,287.03
08-000	E0003244	TRUCK FORD/08 F-250 P/U REG CAB	FORD	F-250 XL SUPER DUTY	1FTNF20548EA79800	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	06/01/2007	0.00
08-001	E0003245	TRUCK FORD/08 F-250 P/U REG CAB	FORD	F-250 XL SUPER DUTY	1FTNF20568EA79801	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	PRYOR, JAMES	06/01/2007	0.00
08-949	1058995H	TRUCK CHEV/03 PU 2500 2 WHL DRIVE	CHEVROLET	2500	1GCHC24U73E177896	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	12/01/2002	0.00
08-996	E0003246	TRUCK FORD/08 F-250 P/U REG CAB	FORD	F-250 XL SUPER DUTY	1FTNF20568EA79796	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	06/01/2007	0.00
126-001	1056509X	TRUCK GMC 2000 (ORIGINAL TAG # 21-212)	GENERAL MOTOR CO	C7500	1GDM7H1C7XJ518207	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	PRYOR, JAMES	03/09/2000	0.00
126-004	E0003925	TRUCK INT'L/07 HYDRO JET CAMERA (ORI. TAG # 21-268)	INTERNATIONAL	4300DT466	1HTMMAAN07H447643	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms		05/01/2007	22,214.52
126-005	E0005614	TRUCK CHEV/07 C7500 HYDRO JETTER (ORI. TAG # 21-269)	CHEVROLET	C-7500	1GBP7C1C27F409147	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms		08/01/2007	26,579.97
126-008	E0021199	TRUCK2008/CHEV C7500 HYDRO JETTERW/FOAMER (ORI.TAG #21-291)	CHEVROLET	C7500	1GBP7C1A88F406950	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms		01/27/2011	83,644.51
126C-004	E0043515	2017/FREIGHTLINER CNG CUES HYDRO/JETTER FOAMER CAMERA SYS W/	FREIGHTLINER	M2112	1FVAC5DX4HHJF3932	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	JORGE VEVAEZ	04/24/2017	-22,708.23
128-002	E0007551	TRUCK FORD/06 F350 REG CAB SWR/UTILITY	FORD	F350 XL SUPER DUTY	1FDWF36Y86EC86405	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms		04/01/2008	4,832.31
128-003	E0007920	TRUCK FORD/06 F350 SEWER INSPECT UTILITY(BDY(ORI. TAG#13-415)	FORD	F350	1FDWF36Y26EC86402	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms		04/01/2008	4,832.31
128-004	E0020655	TRUCK 2011/FORD F-450 CREW CAB XLT SEWER	FORD	F-450	1FD9W4GY7BEA63493	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms		12/21/2010	21,535.68

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TAG NUMBER	FA NUMBER	ASSET DESC	MANUFACTURER	MODEL NUMBER	SR NUMBER	LOC CD	LOC DESC	SLOC	FA TYPE	CUSTODIAN NAME	END USER	ACQ DATE	NET BOOK VALUE
		INSP(ORI.TAG#13-463											
128-007	1054124BX	TRUCK 98 GMC RODDER DIESEL (ORI.TAG#21-204)	GENERAL MOTOR CO	TC6H042	1DGD6H19JWJ507092	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	PRYOR, JAMES	04/01/1998	0.00
128-013	E0006906	TRUCK GMC/08 C6500/RODDER 866(ORI.TAG#21-273)	GMC	C6500	1GDJ6C1G88F402112	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms		01/01/2008	23,880.31
128-016	E0006909	TRUCK GMC/08 C6500/RODDER 866(ORI.TAG#21-276)	GMC	C6500	1GDJ6C1G58F402391	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms		01/01/2008	23,880.30
129-001	E0008904	TRUCK FORD/08 F-350 SEWER INSPECTION (ORI.TAG#13-422)	FORD	F-350	1FDWF36Y88EC06989	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	06/01/2008	6,055.55
129-007	E0009612	TRUCK FORD/08 F-350 SEWER INSPECTION (ORI.TAG#13-428)	FORD	F-350	1FDWF36Y88EC06992	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	07/16/2008	6,614.62
129-009	E0010709	TRCK FORD/06 SWR INSPCT REG CAB UTILITY BOX BDY-ORG TAG#13-434	FORD	F350	1FDWF36Y66EC86404	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	09/17/2008	6,747.51
129-011	E0017642	TRUCK CREW CAB 2008/ FORD F350 SWR SVC BODY(ORG TAG#13-454)	FORD	F-350	1FDWW36Y48EE41700	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	07/07/2010	15,172.69
13-325	1059024	TRUCK FORD/02 F550 MASONRY W/MC-286	FORD	F550	1FDAF56F42EB44423	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	PRYOR, JAMES	02/01/2003	0.00
13-340	1059195	TRUCK FORD/03 PICKUP W/ LIFT GATE	FORD	F-350	1FTWF32S63ED60261	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	PRYOR, JAMES	10/01/2003	0.00
13-390	E0002926	VAN FORD/07 E-450 TV CAMERA	FORD	E-450	1FDXE45SX7DA05562	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms		02/01/2007	3,195.86
13-396	E0005084	TRUCK GMC/07 C5500 UTIL/DMP W/A-BOARD	GMC	C-5500	1GDESC1G37F416759	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms		08/01/2007	5,150.47
13-411	E0008113	TRUCK FORD/07 VAN STEP SEWER INSPECT W/ACCESSORIES	FORD	F-450	1FDXE45S37DB26854	I603	Irwindale - 2849 S. Myrtle Ave 91701 (SM East Yard)	9424	E	Capice Simms		03/01/2008	3,096.02
13-475	E0022559	TRUCK FORD/2011 F-550 REG CAB FLATBED W/LIFTGATE	FORD	F-550	1FDUF5GY4BEA37594	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	06/29/2011	16,172.37
24-135	E0021438	TRUCK 2011/FREIGHTLINER M2106/5 CUBIC YARD DUMP BODY	FREIGHTLINER	M2106	1FVAC2BSXBHAZ8634	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms		03/22/2011	59,167.14
28-122	E0025634	TRUCK VACTOR 2013/MACK GAP	MAC	GU713	1M2AX07C0DM014376	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	07/30/2012	287,236.64

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TAG NUMBER	FA NUMBER	ASSET DESC	MANUFACTURER	MODEL NUMBER	SR NUMBER	LOC CD	LOC DESC	SLOC	FA TYPE	CUSTODIAN NAME	END USER	ACQ DATE	NET BOOK VALUE
		VAX MCL1510 JET/VAC					St 90001 (SM South Yard)						
41-150	E0022181	COMPRESSOR TRAILER MTD 2011/DOOSAN INGERSOLL RAND P185 WJD	DOOSAN INTERNATIONAL USA	P185WJD	4FVCABDA5BU423731	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	06/09/2011	12,669.73
88-685	1033422AX	PUMP TRASH PEABOY	PEABODY BARNES		78354G888318079	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	PRYOR, JAMES	11/01/1988	605.43
98-079	1050715	FORKLIFT HYSTER 4000 LB	HYSTER	H45XM	D177B011942P	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	PRYOR, JAMES	06/01/1993	0.00
DBW071 01	P0006576	BLOWER SUPER VAC P244C PORT	SUPER VA	P244C	914081	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	08/01/1991	2,197.58
DGP693 01	P0006607	GENERATOR ONAN ELEC PORT	ONAN	PRO4000E	1009858	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	N/A	08/01/1990	1,197.74
DGP714 01	P0006618	GENERATOR ONAN ELEC PORT 6.5KW	ONAN	PRO600E PORT	GH400550718	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	03/01/1992	2,053.26
DMC274 01	P0006647	MIXER CEMENT WHITEMAN	WHITEMAN	WC91R	MG25317	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	08/01/1994	3,263.47
DPW493 01	1051499	TRASH PUMP 4" SKID MOUNTED	WACKER	PTS4H	655801163	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	PRYOR, JAMES	08/01/1994	0.00
DSM065 01	P0006653	CLEANER WASHER COMBO ALKOTA PORT	ALKOTA	4212T	153002	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	04/01/1992	3,301.63
I378229 01	P0006834	JACK-HEIN/WERNER TON			M-X-10=10	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	RAMIREZ, MARK	05/01/1983	1,062.66
I378259 01	P0006837	WELDER ARC-HOBART			82W503740	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	09/01/1983	1,276.94
I413948 01	P0006923	AIR COMPRESSOR-SULLAIR			07100923	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	04/01/1982	2,422.10
I430086 01	P0006994	HOIST MD-ECMT-4008-1-10			P2-195A	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	05/01/1985	2,499.56
I465058 01	P0007139	SAW BAND M#HVBS.7C			M4-900123	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	03/01/1990	1,876.16
I490887 01	P0007236	PAVEMENT BREAKER			83660	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	12/01/1988	1,851.06
I543894 01	P0007756	SELF RETRACTABLE LIFELINE			911656 / V11656M	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	04/01/1992	2,085.84

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I543895 01	P0007757	SELF RETRACTABLE LIFELINE			911657 / V11657M	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	04/01/1992	2,085.84
I543896 01	P0007758	SELF RETRACTABLE LIFELINE			911658 / V11658M	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	04/01/1992	2,085.84
I543897 01	P0007759	DYNA HOST TRIPOD SYS F/CONFINED SPACE	PACIFIC SAFETY E	506213	H0213	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	04/01/1992	2,085.84
I543898 01	P0007760	DYNA HOST TRIPOD SYS F/CONFINED SPACE	PACIFIC SAFETY E	506213	H0221	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	04/01/1992	2,085.84
I543899 01	P0007761	DYNA HOST TRIPOD SYS F/CONFINED SPACE	PACIFIC SAFETY E	506213	H0202	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	04/01/1992	2,085.84
I543900 01	P0007762	DYNA HOST TRIPOD SYS F/CONFINE SPACE	PACIFIC SAFETY E	506213	H0218	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	04/01/1992	2,085.84
I543901 01	P0007763	DYNA HOST TRIPOD SYS F/CONFINED SAFETY	PACIFIC SAFETY E	506213	H0207	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	04/01/1992	2,085.84
I547631 01	P0007797	SELF RETRACTABLE LIFELINE			911644 / V11644M	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	04/01/1992	2,085.83
I561877 01	P0007874	SPRAYER INCIDE 550-031			9204024	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	05/01/1993	3,962.12
I563220 01	1054193C	CUTTER ROOT LUMBERJACK	LUMBERJACK			L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	PRYOR, JAMES	03/01/1999	915.56
I563921 01	E0003016	COMPUTER CAMERA CONTROL SYS SUPERVISION	SUPERVISION	SV-2	5090056 & 5100053	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	W/13-390	02/01/2007	0.00
I563922 01	E0003017	COMPUTER WINCAM	SUPERVISION	X11-45391	00045681268309	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	W/13-390	02/01/2007	0.00
I563923 01	E0003018	CABLE DRUM SYSTEM	SUPERVISION	SVA350	5270019 & 5200061	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	W/13-390	02/01/2007	1,624.10
I563924 01	E0003019	INSPECTION CAMERA SUPERVISION SVC100	SUPERVISION	SVC100	5070054	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	W/13-390	02/01/2007	5,318.61
I563925 01	E0003020	INSPECTION CRAWLER SUPERVISION 512HZ	SUPERVISION	SVR140	5040018	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	W/13-390	02/01/2007	3,759.73
I563953 01	E0003926	CAMERA UMBILICAL POLYU W/21-268		800HPR TV/AW (500FT)	3947	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	05/01/2007	1,645.49

**County of Los Angeles
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CUSTODIAN: PWCSIMMS
CUSTODIAN NAME: Capice Simms

TAG NUMBER	FA NUMBER	ASSET DESC	MANUFACTURER	MODEL NUMBER	SR NUMBER	LOC CD	LOC DESC	SLOC	FA TYPE	CUSTODIAN NAME	END USER	ACQ DATE	NET BOOK VALUE
I563954 01	E0003930	CAMERA HEAD SERIES II W/21-268	ACT	ACTM7C		L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	05/01/2007	3,709.79
I563955 01	E0003931	FOAMING UNIT VAPOROOTER W/21-268	VAPOROOTER	FOAMING		L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	05/01/2007	6,327.20
I563956 01	E0003932	CONTROL UNIT CAMERA SERIES II W/21-268	SEWER CO. OF USA	SERIES II	3947	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	N/A	05/01/2007	0.00
I564021 01	E0005629	CAMERA INSPECTION SYSTEM SEWER PORTABLE	PELICAN/RIGID	1520	208-07581	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	E	Capice Simms	PRYOR, JAMES	08/01/2007	0.00
I565173 01	E0038016	HANDHELD DATA COLLECTOR TRIMBLE RANGER 3XE HH W/CHARGE CRADL	TRIMBLE	3XE HH	RS3LC76503	L509	Lancaster - 260 East Ave. K-8 (VWV N. Mtc Area)	8814	E	Capice Simms		11/02/2015	8,731.20
I565174 01	E0038056	HANDHELD DATA COLLECTOR TRIMBLE RANGER 3XE HH W/CHARGE CRADL	TRIMBLE	3XE HH	RS3LC76521	L509	Lancaster - 260 East Ave. K-8 (VWV N. Mtc Area)	8814	E	Capice Simms		11/02/2015	8,731.20
I565175 01	E0038057	HANDHELD DATA COLLECTOR TRIMBLE RANGER 3XE HH W/CHARGE CRADL	TRIMBLE	3XE HH	RS3LC76464	L509	Lancaster - 260 East Ave. K-8 (VWV N. Mtc Area)	8814	E	Capice Simms		11/02/2015	8,731.20
I565177 01	E0038059	HANDHELD DATA COLLECTOR TRIMBLE RANGER 3XE HH W/CHARGE CRADL	TRIMBLE	3XE HH	RS3LC76508	L509	Lancaster - 260 East Ave. K-8 (VWV N. Mtc Area)	8814	E	Capice Simms		11/02/2015	8,731.20
PW10758	P0008281	PRINTER HP LASERJET 6P	HEWLETT PACKARD	LASERJET 6P	USBB229877	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9442	P	Capice Simms	N/A	02/01/1997	378.00
PW15357	P0009677	BREATHG APPARATUS SCOTT SCBA S		TC13F401	99100119	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	03/01/1999	1,145.73
PW15358	P0009678	BREATHG APPARATUS SCOTT SCBA S		TC13F401	99100120	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	03/01/1999	1,145.73
PW15359	P0009679	BREATHG APPARATUS SCOTT SCBA S		TC13F401	99100123	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	03/01/1999	1,145.73
PW22211	P0014554	HP PHOTOSMART 7550	HP	PHOTOSMART 7550	CN2AB4210Z	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	01/01/2003	307.00
PW22217	P0014560	LABELER BROTHER PT9200DX	BROTHER	PT9200DX	U52662-B1A345767	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	08/01/2001	400.00
PW27899	P0019840	GAS MONITOR ISC ITX MULTI GAS	IND SCIENTIFIC	ITX MULTI GAS	060508R927	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		08/01/2006	1,571.00

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TAG NUMBER	FA NUMBER	ASSET DESC	MANUFACTURER	MODEL NUMBER	SR NUMBER	LOC CD	LOC DESC	SLOC	FA TYPE	CUSTODIAN NAME	END USER	ACQ DATE	NET BOOK VALUE
PW28300	P0020269	GAS MONITOR ISC ITX MULTI	IND SCIENTIFIC	ITX MULTI GAS	060710B047	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		08/01/2006	1,571.00
PW28307	P0020276	GAS MONITR DOCKING STATION ISC DS2	IND SCIENTIFIC	DS2 FOR GAS MONITR	06040RN005	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	N/A	05/01/2006	1,584.00
PW28739	P0028787	GENERATOR ONAN CM5500 MOBIL W/13390	ONAN	CM5500 MOBIL W/13390	1060973256	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		02/01/2007	3,630.59
PW28740	P0028788	MONITOR SHARP ACQUOS FLT SCREEN W/13-390	SHARP	ACQUOS FLTSCRN	606917551	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		02/01/2007	345.05
PW28741	P0028789	MONITOR SHARP ACQUOS FLT SCREEN W/13-390	SHARP	ACQUOS FLTSCRN	610832902	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		02/01/2007	717.16
PW28742	P0028790	MONITOR VIEW SONIC FLT SCREEN W/13-390	VIEW SONIC	VX922 FLTSCRN	PXU064039198	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		02/01/2007	373.46
PW28743	P0028791	RECORDER VCR/DVD SONY RDRVX530	SONY	RDRVX530 W/13390	60852824	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		02/01/2007	403.78
PW28744	P0028792	PRINTER EPSON STYLUS PHOTO R260	EPSON	B411B / PHOTO R260	JKSK010554	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		02/01/2007	403.78
PW28824	P0028292	SCANNER HP 8250 SCANJET	HEWLETT PACKARD	8250 SCANJET	CN67MAO526	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		02/01/2007	991.21
PW29106	P0028691	CAMERA CASIO EXZ1000 EXILIM DIGITAL	CASIO	EXZ1000 EXILIM DIGTL	80016006AD	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		04/01/2007	319.34
PW29107	P0028693	CAMERA CASIO EXZ1000 EXILIM DIGITAL	CASIO	EXZ1000 EXILIM DIGTL	80016003AD	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		04/01/2007	319.34
PW29137	P0028732	NETWORK CISCO 2811 AC-IP	CISCO	CISCO2811 AC-IP	FTX1117A2XX	I603	Irwindale - 2849 S. Myrtle Ave 91701 (SM East Yard)	9424	P	Capice Simms		05/01/2007	1,908.51
PW29296	P0028819	MONITOR 7" LCD ACT F/SEWRCAMERA W/21-268	ACT	ACTM7C W/21-268	N/A	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		05/01/2007	338.22
PW29297	P0028820	DVD RECORDER DV MP600 W/21268	DATA VIDEO	MP600 W/21-268	N/A	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		05/01/2007	4,706.16
PW29698	P0029370	CAMERA CASIO EXZ1050 EXILIM	CASIO	EX Z1050 EXILIM	80004461AD	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PUMPHREY, LOUIS	08/01/2007	319.34
PW29927	P0029587	MONITOR DELL ULTRASHARP 1908FP	DELL	ULTRASHARP 1908FP	CN0DY8404663375M3NWU	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	SIMMS, CAPICE	09/01/2007	268.86
PW30044	P0029786	PRINTER HP P3005D LASERJET	HEWLETT	P3005D LASERJET	CNJ1D56655	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms		10/01/2007	636.29

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			PACKARD				St 90001 (SM South Yard)						
PW30064	P0029799	CAMERA CASIO EXZ1050 EXILIM 10.1 MP	CASIO	EXZ1050 EXILIM 10.1	80008609AD	I603	Irwindale - 2849 S. Myrtle Ave 91701 (SM East Yard)	9424	P	Capice Simms		10/01/2007	291.19
PW30661	P0031588	DOCKING STATION INDUSTRIAL SCIENTIFIC DS2 ITX IDS 1810-5551	INDUSTRIAL SCIENTIFIC COR	DS2 ITX IDS 1810-5551-000	070600W-038	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	06/28/2007	1,538.57
PW30663	P0031590	GAS MONITOR INDUSTRIAL SCIENTIFIC CORP ITX 18104307-11014	INDUSTRIAL SCIENTIFIC COR	ITX 18104307-11014	07060A4028	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	06/28/2007	1,371.90
PW30664	P0031591	GAS MONITOR INDUSTRIAL SCIENTIFIC CORP ITX 18104307-11014	INDUSTRIAL SCIENTIFIC COR	ITX 18104307-11014	07060HU042	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	06/28/2007	1,371.90
PW30665	P0031592	GAS MONITOR INDUSTRIAL SCIENTIFIC CORP ITX 18104307-11014	INDUSTRIAL SCIENTIFIC COR	ITX 18104307-11014	07060A4015	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	06/28/2007	1,371.90
PW30666	P0031593	GAS MONITOR INDUSTRIAL SCIENTIFIC CORP ITX 18104307-11014	INDUSTRIAL SCIENTIFIC COR	ITX 18104307-11014	07060A4007	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	06/28/2007	1,371.90
PW30686	P0031599	GAS MONITOR INDUSTRIAL SCIENTIFIC CORP ITX 18104307-11014	INDUSTRIAL SCIENTIFIC COR	ITX 18104307-11014	07060HU044	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	06/28/2007	1,371.90
PW30736	P0030434	MONITOR DELL UL TRASHARP 1908WFP	DELL	UL TRASHARP 1908WFP	CN0GP004728727AM2LUCS	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PRYOR, JAMES	03/01/2008	250.15
PW30744	P0030389	MONITOR DELL UL TRASHARP 1908WFP	DELL	UL TRASHARP 1908WFP	CN0GP004728727B21RFU	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	N/A	03/01/2008	250.15
PW32408	P0032258	DIGITAL CAMERA CANON POWER SHOT A2000IS	CANON	POWER SHOT A2000IS	692622605	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	N/A	05/19/2009	215.56
PW32871	P0032549	HP L2245WG LCD MONITOR	HP	L2245WG LCD MONITOR	CNK9260BQZ	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	N/A	09/30/2009	199.49
PW35399	P0036693	HP LA2205WG	HP	LA2205WG	3CQ148BZ4P	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	VALDEZ, NORMA	01/28/2012	189.23
PW38077	P0040729	HP ELITE 6300 PRO COMPUTER	HP	ELITE 6300 PRO	MXL332092R	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	PAUL BRADFORD	08/20/2013	808.78
PW38475	P0041314	HP ELITE 6300 PRO COMPUTER	HP	ELITE 6300 PRO	MXL3341SHS	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	CAPICE SIMMS	10/21/2013	577.01

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TAG NUMBER	FA NUMBER	ASSET DESC	MANUFACTURER	MODEL NUMBER	SR NUMBER	LOC CD	LOC DESC	SLOC	FA TYPE	CUSTODIAN NAME	END USER	ACQ DATE	NET BOOK VALUE
PW38700	P0041593	HP ELITE 6300 PRO COMPUTER	HP	ELITE 6300 PRO	MXL3512FX2	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	CAPICE SIMMS	01/23/2014	810.86
PW39613	P0042743	J.G. TUCKER & SON INC - GAS DETECTOR	J.G. TUCKER & SON INC	PGM-2500	M02A000837	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	SIMMS, CAPICE	07/22/2014	968.45
PW39614	P0042744	J.G. TUCKER & SON INC - GAS DETECTOR	J.G. TUCKER & SON INC	PGM-2500	M02A000839	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	SIMMS, CAPICE	07/22/2014	968.45
PW39615	P0042745	J.G. TUCKER & SON INC - GAS DETECTOR	J.G. TUCKER & SON INC	PGM-2500	M02A000848	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	SIMMS, CAPICE	07/22/2014	968.45
PW39616	P0042746	J.G. TUCKER & SON INC - GAS DETECTOR	J.G. TUCKER & SON INC	PGM-2500	M02A000855	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	SIMMS, CAPICE	07/22/2014	968.45
PW40699	P0038436	HP ELITE 6300 PRO COMPUTER	HP	ELITE 6300 PRO	MXL30317F5	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	N/A	02/28/2013	666.17
PW40993	P0039901	HP ELITE 6300 PRO COMPUTER	HP	ELITE 6300 PRO	MXL3122R3X	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	JESSE CISNEROS	04/04/2013	661.53
PW41020	P0038526	INDUSTRIAL SCIENTIFIC MULTI GAS MONITOR	INDUSTRIAL SCIENTIFIC	ITX181104307-11014C	130121Z-001	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	(SOUTH YD)	01/16/2013	2,210.05
PW41021	P0038527	INDUSTRIAL SCIENTIFIC MULTI GAS MONITOR	INDUSTRIAL SCIENTIFIC	ITX181104307-11014C	130121Z-002	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	SOUTH YD	01/16/2013	2,210.05
PW41186	P0039982	HP LA2405X MONITOR	HP	LA2405X	CN43090ZKK	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	JESSE CISNEROS	04/17/2013	250.41
PW42810	P0043977	HP 2405X - 24 INCH	HP	LA2405X	CN45070G3R	L851	Los Angeles - 1129 E. 59th St 90001 (SM South Yard)	9422	P	Capice Simms	N/A	05/27/2015	225.71
TOTAL FOR CUSTODIAN: PWC SIMMS												801,517.87	

APPENDIX D
INVENTORY OF COLLECTION FACILITIES

SMD Sewers in the City of Rolling Hills Estates

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0001/1598-0092/1598	8	GOLDRING PL	107	RHE	VCP
0001/1652-0002/1652	8	CLUB VIEW LN	310	RHE	VCP
0002/1652-0003/1652	8	CLUB VIEW LN	317	RHE	VCP
0003/1652-0011/1652	8	CLUB VIEW LN	280	RHE	VCP
0004/1652-0005/1652	8	DAPPLEGRAY LN	88	RHE	VCP
0007/1598-0008/1598	8		76	RHE	VCP
0007/1652-0044/1652	8	CERRITO PL	276	RHE	VCP
0007/1652-TRNK/1652	8	CERRITO PL	83	RHE	VCP
0008/1598-0009/1598	8		254	RHE	VCP
0008/1652-0009/1652	8		135	RHE	VCP
0009/1652-0010/1652	8	PEACOCK LN	281	RHE	VCP
0010/1599-0027/1599	8		248	RHE	VCP
0010/1652-0011/1652	8	PEACOCK LN	291	RHE	VCP
0011/1652-0014/1652	8	CLUB VIEW LN	370	RHE	VCP
0012/1652-0013/1652	8	BAY MARE LN	268	RHE	VCP
0013/1652-0014/1652	8	BAY MARE LN	235	RHE	VCP
0014/1652-0015/1652	8	CLUB VIEW LN	293	RHE	VCP
0015/1652-0018/1652	8	CLUB VIEW LN	301	RHE	VCP
0016/1652-0017/1652	8	SILVERBIT LN	290	RHE	VCP
0017/1652-0018/1652	8	SILVERBIT LN	250	RHE	VCP
0018/1652-0019/1652	8	CLUB VIEW LN	260	RHE	VCP
0019/1652-0021/1652	8	CLUB VIEW LN	181	RHE	VCP
0020/1652-0021/1652	8		171	RHE	VCP
0020/1652-0199/1652	8		173	RHE	VCP
0021/1652-0022/1652	8	CLUB VIEW LN	85	RHE	VCP
0022/1652-TRNK/1652	8	CLUB VIEW LN	251	RHE	VCP
0024/1652-0025/1652	8	VISTA REAL DR	264	RHE	VCP
0026/1652-0027/1652	8	CELESTE PL	331	RHE	VCP
0029/1652-0030/1652	8	MONTECILLO DR	303	RHE	VCP
0030/1652-0031/1652	8		206	RHE	VCP
0031/1652-0032/1652	8		100	RHE	VCP
0032/1652-0033/1652	8		147	RHE	VCP
0033/1652-0034/1652	8	LANTANA PL	187	RHE	VCP
0034/1652-0036/1652	8	LANTANA PL	225	RHE	VCP
0035/1652-0036/1652	8	AURORA DR	354	RHE	VCP
0036/1652-TRNK/1652	8	AURORA DR	185	RHE	VCP
0037/1598-0038/1598	8	SHADY VISTA RD	296	RHE	VCP
0038/1598-0039/1598	8	SHADY VISTA RD	304	RHE	VCP
0039/1598-0040/1598	8	SHADY VISTA RD	224	RHE	VCP
0039/1598-0045/1598	8	SEAHURST RD	122	RHE	VCP
0039/1598-0046/1598	8	SEAHURST RD	265	RHE	VCP
0039/1652-0040/1652	8	DORADO PL	310	RHE	VCP
0040/1598-0060/1598	8	SHADY VISTA RD	202	RHE	VCP
0040/1652-TRNK/1652	8	DORADO PL	214	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0041/1598-0042/1598	8		168	RHE	VCP
0042/1598-0043/1598	8		124	RHE	VCP
0042/1652-0043/1652	8	ENCANTO DR	171	RHE	VCP
0042/1652-TRNK/1652	8	ENCANTO DR	177	RHE	VCP
0043/1598-0045/1598	8		107	RHE	VCP
0044/1598-0045/1598	8	SEAHURST RD	271	RHE	VCP
0051/1598-0052/1598	8		216	RHE	VCP
0052/1598-0053/1598	8		196	RHE	VCP
0053/1598-0054/1598	8	SILVER SADDLE LN	53	RHE	VCP
0053/1599-0054/1599	8	SOLVER SPUR RD	54	RHE	VCP
0053/1599-0523/1545	8	SOLVER SPUR RD	49	RHE	VCP
0054/1598-0055/1598	8	SHADY VISTA RD	187	RHE	VCP
0054/1598-0252/1598	8	SILVER SADDLE LN	346	RHE	VCP
0054/1599-0056/1599	15	SOLVER SPUR RD	279	RHE	VCP
0054/1599-0511/1545	15	SILVER SPUR RD	240	RHE	VCP
0055/1598-0056/1598	8	SHADY VISTA RD	329	RHE	VCP
0055/1599-0056/1599	8	DEEP VALLEY DR	305	RHE	VCP
0055/1599-0501/1545	8	DEEP VALLEY DR	346	RHE	VCP
0056/1599-0057/1599	15	SOLVER SPUR RD	239	RHE	VCP
0057/1598-0058/1598	8	SHADY VISTA RD	299	RHE	LVCP
0057/1599-0074/1599	15	SOLVER SPUR RD	242	RHE	VCP
0058/1545-0165/1545	8	COUNTRY LN	197	RHE	VCP
0058/1598-0059/1598	8	SHADY VISTA RD	246	RHE	VCP
0059/1598-0060/1598	8	SHADY VISTA RD	266	RHE	VCP
0060/1598-0061/1598	8	SANTA BELLA RD	313	RHE	VCP
0061/1598-0062/1598	8	SANTA BELLA RD	394	RHE	VCP
0062/1598-0063/1598	8	SANTA BELLA RD	248	RHE	VCP
0063/1598-0064/1598	8	SANTA BELLA RD	243	RHE	VCP
0064/1598-0065/1598	8	SANTA BELLA RD	264	RHE	VCP
0065/1598-0066/1598	8		280	RHE	VCP
0066/1598-0067/1598	8		79	RHE	VCP
0067/1598-0068/1598	8		163	RHE	VCP
0068/1598-0069/1598	8		244	RHE	VCP
0069/1598-0070/1598	8		349	RHE	VCP
0070/1598-TRNK/1598	8		205	RHE	VCP
0072/1598-0073/1598	8	GOLDEN SPAR PL	320	RHE	VCP
0072/1599-0073/1599	10	CRENSHAW BV	175	RHE	VCP
0073/1598-0074/1598	8	GOLDEN SPAR PL	233	RHE	VCP
0073/1598-0075/1598	8	RANCHVIEW RD	358	RHE	VCP
0073/1599-0074/1599	10	CRENSHAW BV	95	RHE	VCP
0074/1599-0075/1599	10	CRENSHAW BV	194	RHE	VCP
0075/1598-0076/1598	8	RANCHVIEW RD	242	RHE	VCP
0076/1598-0077/1598	8	RANCHVIEW RD	244	RHE	VCP
0077/1598-0078/1598	8	RANCHVIEW RD	321	RHE	VCP
0078/1598-0079/1598	8	RANCHVIEW RD	343	RHE	VCP
0079/1598-0080/1598	8	RANCHVIEW RD	318	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0080/1598-0081/1598	8	RANCHVIEW RD	170	RHE	VCP
0081/1598-0082/1598	8	RANCHVIEW RD	320	RHE	VCP
0081/1599-0138/1599	8		168	RHE	VCP
0081/1599-0139/1599	8		120	RHE	VCP
0082/1598-0083/1598	8	RANCHVIEW RD	228	RHE	VCP
0083/1598-0084/1598	8	PALOS VERDES DR NO.	104	RHE	VCP
0083/1598-TRNK/1598	8	PALOS VERDES DR NO.	149	RHE	VCP
0084/1598-0085/1598	8	PALOS VERDES DR NO.	232	RHE	VCP
0085/1598-0086/1598	8	PALOS VERDES DR NO.	303	RHE	VCP
0087/1598-0088/1598	8	ROANWOOD DR	122	RHE	VCP
0088/1598-0089/1598	8	ROANWOOD DR	199	RHE	VCP
0089/1598-0090/1598	8	ROANWOOD DR	261	RHE	VCP
0090/1598-0091/1598	8	ROANWOOD DR	151	RHE	VCP
0090/1598-0092/1598	8	SILVERLEAF DR	317	RHE	VCP
0092/1598-0093/1598	8		207	RHE	VCP
0092/1598-0095/1598	8	SILVERLEAF DR	89	RHE	VCP
0093/1598-0094/1598	8		283	RHE	VCP
0094/1598-0097/1598	8	PALOS VERDES DR NO.	83	RHE	VCP
0095/1598-0096/1598	8	SILVERLEAF DR	247	RHE	VCP
0097/1598-0098/1598	8	PALOS VERDES DR NO.	336	RHE	LVCP
0098/1598-TRNK/1598	8	PALOS VERDES DR NO.	129	RHE	VCP
0125/1599-0126/1599	8	PONY LN	35	RHE	VCP
0125/1599-0175/1598	8	PONY LN	315	RHE	VCP
0126/1599-0127/1599	8	PONY LN	242	RHE	VCP
0127/1599-0128/1599	8	PONY LN	278	RHE	VCP
0128/1599-0129/1599	8	PONY LN	318	RHE	VCP
0130/1599-0132/1599	8		68	RHE	VCP
0130/1599-0151/1599	8		340	RHE	VCP
0131/1599-0132/1599	8	STRAWBERRY LN	90	RHE	VCP
0132/1599-0133/1599	8	STRAWBERRY LN	240	RHE	VCP
0133/1599-0134/1599	8	STRAWBERRY LN	276	RHE	VCP
0134/1598-0135/1598	8	PALOS VERDES DR NO.	84	RHE	VCP
0134/1598-TRNK/1598	8	PALOS VERDES DR NO.	120	RHE	VCP
0134/1599-0135/1599	8	STRAWBERRY LN	137	RHE	VCP
0135/1598-0136/1598	8		119	RHE	VCP
0136/1598-0137/1598	8		172	RHE	VCP
0136/1599-0137/1599	8	STRAWBERRY LN	202	RHE	VCP
0137/1599-0140/1599	8	STRAWBERRY LN	322	RHE	VCP
0139/1599-0140/1599	8		316	RHE	VCP
0140/1599-0141/1599	8	STRAWBERRY LN	238	RHE	VCP
0141/1599-0142/1599	8	STRAWBERRY LN	107	RHE	VCP
0142/1599-0143/1599	8	PALOS VERDES DR NO.	319	RHE	VCP
0143/1599-0144/1599	8	PALOS VERDES DR NO.	279	RHE	VCP
0144/1599-0145/1599	8	PALOS VERDES DR NO.	310	RHE	VCP
0147/1599-0151/1599	8		37	RHE	VCP
0147/1599-0248/1598	8		177	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0151/1598-0152/1598	8	PALOS VERDES DR NO.	120	RHE	VCP
0151/1599-0152/1599	8		107	RHE	VCP
0152/1598-0153/1598	8	BRANDING IRON LN	277	RHE	VCP
0152/1598-0154/1598	8	PALOS VERDES DR NO.	330	RHE	VCP
0152/1598-0156/1598	8	PALOS VERDES DR NO.	318	RHE	VCP
0152/1599-0153/1599	8		309	RHE	VCP
0154/1598-0155/1598	8	RAWHIDE LN	309	RHE	VCP
0154/1598-0483/1598	8	PALOS VERDES DR NO.	300	RHE	VCP
0156/1598-0157/1598	8	PALOS VERDES DR NO.	363	RHE	VCP
0157/1598-TRNK/1598	8	PALOS VERDES DR NO.	220	RHE	VCP
0158/1545-0159/1545	8	CORAL TREE LN	121	RHE	VCP
0159/1545-0160/1545	8	CORAL TREE LN	220	RHE	VCP
0159/1598-0160/1598	8	ROLLING HILLS RD	64	RHE	VCP
0159/1598-0161/1598	8	ROLLING HILLS RD	54	RHE	VCP
0159/1599-0477/1598	8	SUNNYFIELD DR	78	RHE	VCP
0160/1545-0161/1545	8	CORAL TREE LN	209	RHE	VCP
0161/1545-0162/1545	8	CORAL TREE LN	190	RHE	VCP
0161/1598-0162/1598	8	ROLLING HILLS RD	122	RHE	VCP
0162/1545-0163/1545	8	CORAL TREE LN	51	RHE	VCP
0162/1598-0163/1598	8	PALDMINO LN	231	RHE	VCP
0163/1545-0164/1545	8		82	RHE	VCP
0163/1598-0164/1598	8	PALDMINO LN	196	RHE	VCP
0164/1545-0165/1545	8		95	RHE	VCP
0164/1598-0165/1598	8	PINTO LN	264	RHE	VCP
0165/1545-0166/1545	8	COUNTRY LN	270	RHE	VCP
0165/1598-0166/1598	8	PINTO LN	250	RHE	VCP
0166/1545-0167/1545	8		47	RHE	VCP
0166/1598-0167/1598	8		239	RHE	VCP
0167/1545-0168/1545	8		74	RHE	VCP
0167/1598-0168/1598	8	R & H TR	303	RHE	VCP
0167/1598-0172/1598	8	R & H TR	213	RHE	VCP
0168/1545-0169/1545	8		77	RHE	VCP
0168/1598-0170/1598	8	R & H TR	160	RHE	VCP
0169/1545-0171/1545	8	PEAR TREE LN	99	RHE	VCP
0169/1598-0170/1598	8		210	RHE	VCP
0170/1545-0171/1545	8		190	RHE	VCP
0170/1598-0171/1598	8	R & H TR	136	RHE	VCP
0171/1545-0172/1545	8	PEAR TREE LN	105	RHE	VCP
0172/1545-0176/1545	8	PEAR TREE LN	278	RHE	VCP
0172/1598-0173/1598	8	R & H TR	121	RHE	VCP
0173/1545-0174/1545	8	PEAR TREE LN	95	RHE	VCP
0173/1598-0174/1598	8		175	RHE	VCP
0173/1598-0177/1598	8	R & H TR	344	RHE	VCP
0174/1545-0175/1545	8	PEAR TREE LN	175	RHE	VCP
0175/1545-0176/1545	8	PEAR TREE LN	145	RHE	VCP
0175/1598-0176/1598	8	PONY LN	158	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0176/1545-0177/1545	8	PEAR TREE LN	280	RHE	VCP
0176/1598-0177/1598	8		255	RHE	VCP
0177/1545-0178/1545	8	COUNTRY LN	359	RHE	VCP
0177/1598-0180/1598	8	R & H TR	195	RHE	VCP
0178/1545-0383/1545	8	COUNTRY LN	221	RHE	VCP
0178/1598-0179/1598	8	BRIDLE TR	119	RHE	VCP
0179/1598-0180/1598	8	BRIDLE TR	125	RHE	VCP
0180/1598-0181/1598	8		165	RHE	VCP
0181/1545-0182/1545	8	CRESTA VERDES DR	195	RHE	VCP
0181/1598-0188/1598	8		310	RHE	VCP
0181/1598-PUMP/1598	8		34	RHE	VCP
0182/1545-0183/1545	8	CRESTA VERDES DR	245	RHE	VCP
0182/1598-0184/1598	8		260	RHE	VCP
0182/1598-PUMP/1598	4	BRIDLE TR	558	RHE	CAS
0183/1545-0184/1545	8	CRESTA VERDES DR	186	RHE	VCP
0183/1598-0184/1598	8	EMPTY SADDLE LN	138	RHE	VCP
0184/1598-0185/1598	8	EMPTY SADDLE LN	307	RHE	VCP
0185/1598-0186/1598	8	EMPTY SADDLE LN	271	RHE	VCP
0186/1545-0187/1545	8	CRESTA VERDES DR	219	RHE	VCP
0186/1598-0189/1598	8	EMPTY SADDLE DR	228	RHE	VCP
0186/1598-0230/1598	8	EMPTY SADDLE DR	48	RHE	VCP
0187/1545-0188/1545	8	CRESTA VERDES DR	246	RHE	VCP
0187/1598-0188/1598	8		187	RHE	VCP
0187/1598-0244/1598	8		28	RHE	VCP
0188/1545-0190/1545	8	CRESTA VERDES DR	283	RHE	VCP
0189/1598-0191/1598	8	EMPTY SADDLE DR	247	RHE	VCP
0190/1598-0191/1598	8		216	RHE	VCP
0191/1598-0192/1598	8	EMPTY SADDLE DR	178	RHE	VCP
0192/1598-0211/1598	8	EMPTY SADDLE DR	349	RHE	LVCP
0193/1598-0194/1598	8		342	RHE	VCP
0194/1598-0195/1598	8	EMPTY SADDLE DR	348	RHE	VCP
0195/1598-0196/1598	8	EMPTY SADDLE LN	160	RHE	VCP
0195/1598-0230/1598	8	EMPTY SADDLE DR	94	RHE	VCP
0196/1598-0197/1598	8	EMPTY SADDLE LN	194	RHE	VCP
0197/1598-0225/1598	8	EMPTY SADDLE LN	199	RHE	VCP
0198/1598-0199/1598	8	LARIAT LN	305	RHE	VCP
0198/1598-0489/1598	8	LARIAT LN	118	RHE	VCP
0199/1545-0200/1545	8	CLEAR VISTA DR	195	RHE	VCP
0199/1598-0200/1598	8	LARIAT LN	185	RHE	VCP
0200/1545-0201/1545	8	CLEAR VISTA DR	340	RHE	VCP
0200/1598-0202/1598	8	ROLLING HILLS RD	81	RHE	VCP
0201/1545-0202/1545	8	CLEAR VISTA DR	194	RHE	VCP
0201/1598-0202/1598	8	ROLLING HILLS RD	221	RHE	VCP
0202/1545-0203/1545	8	CLEAR VISTA DR	190	RHE	VCP
0202/1598-0203/1598	8	ROLLING HILLS RD	86	RHE	VCP
0203/1545-0204/1545	8	CLEAR VISTA DR	351	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0203/1598-0204/1598	8	LARIAT LN	308	RHE	VCP
0203/1598-0207/1598	8	ROLLING HILLS RD	344	RHE	VCP
0204/1545-0205/1545	8	CLEAR VISTA DR	349	RHE	VCP
0204/1598-0205/1598	8	LARIAT LN	257	RHE	VCP
0205/1545-0206/1545	8	CLEAR VISTA DR	118	RHE	VCP
0205/1598-0206/1598	8	LARIAT LN	185	RHE	VCP
0206/1545-0267/1545	8	CLEAR VISTA DR	207	RHE	VCP
0207/1545-0257/1545	8	COUNTRY MEADOW RD	281	RHE	VCP
0207/1598-0209/1598	8	SINGLETREE LN	386	RHE	VCP
0207/1598-0210/1598	8	ROLLING HILLS RD	232	RHE	VCP
0210/1598-0211/1598	8	ROLLING HILLS RD	218	RHE	VCP
0211/1545-0264/1545	8	MISTY ACRES RD	321	RHE	VCP
0211/1598-0212/1598	8	ROLLING HILLS RD	180	RHE	VCP
0212/1598-0213/1598	8	SHADOW LN	130	RHE	VCP
0212/1598-0216/1598	8	ROLLING HILLS RD	282	RHE	VCP
0212/1653-0240/1653	8	GAUCHO DR	172	RHE	VCP
0213/1545-0283/1545	8	MISTY ACRES RD	312	RHE	VCP
0213/1598-0214/1598	8	SHADOW LN	117	RHE	VCP
0213/1653-0215/1653	8	CARRIAGE DR	229	RHE	VCP
0214/1598-0215/1598	8	SHADOW LN	258	RHE	VCP
0214/1653-0215/1653	8	SUNDOWN DR	153	RHE	VCP
0215/1545-0290/1545	8	HIGHRIDGE RD	165	RHE	VCP
0215/1653-0216/1653	8	CARRIAGE DR	226	RHE	VCP
0216/1545-0286/1545	8		158	RHE	VCP
0216/1598-0217/1598	8	ROLLING HILLS RD	56	RHE	VCP
0216/1598-0218/1598	8	ROLLING HILLS RD	339	RHE	VCP
0216/1653-0217/1653	8	CARRIAGE DR	340	RHE	VCP
0217/1653-0218/1653	8	CARRIAGE DR	300	RHE	VCP
0218/1598-0219/1598	8		59	RHE	LVCP
0218/1598-0231/1598	8	ROLLING HILLS RD	238	RHE	VCP
0218/1653-0240/1653	8	SADDLE RD	348	RHE	VCP
0219/1598-0220/1598	8	TANGLEWOOD LN	207	RHE	LVCP
0219/1653-0300/1653	8	BUCKSKIN LN	166	RHE	VCP
0219/1653-0301/1653	8	BUCKSKIN LN	204	RHE	VCP
0220/1598-0221/1598	8	TANGLEWOOD LN	128	RHE	LVCP
0220/1653-0221/1653	8	GAUCHO DR	332	RHE	VCP
0221/1598-0222/1598	8	TANGLEWOOD LN	121	RHE	LVCP
0221/1653-0222/1653	8	GAUCHO DR	329	RHE	VCP
0222/1598-0223/1598	8	TANGLEWOOD LN	230	RHE	LVCP
0222/1653-0240/1653	8	GAUCHO DR	297	RHE	VCP
0223/1598-0224/1598	8	TANGLEWOOD LN	169	RHE	LVCP
0223/1653-0224/1653	8	CONESTOGA DR	194	RHE	VCP
0223/1653-0363/1653	8	CONESTOGA DR	150	RHE	VCP
0224/1653-0226/1653	8	CONESTOGA DR	189	RHE	VCP
0225/1598-0226/1598	8	SADDLEHORN LN	107	RHE	VCP
0225/1598-0228/1598	8	EMPTY SADDLE LN	56	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0225/1653-0226/1653	8	CONESTOGA DR	248	RHE	VCP
0226/1598-0227/1598	8	SADDLEHORN LN	233	RHE	VCP
0226/1653-0227/1653	8	ESTRIBO DR	377	RHE	VCP
0227/1653-0228/1653	8	ESTRIBO DR	328	RHE	VCP
0228/1598-0229/1598	8		193	RHE	VCP
0228/1653-0238/1653	8	ESTRIBO DR	167	RHE	VCP
0229/1653-0298/1653	8	DAPPLEGRAY LN	100	RHE	VCP
0230/1653-0231/1653	8	CONESTOGA DR	158	RHE	VCP
0231/1598-0232/1598	8	ROLLING HILLS RD	236	RHE	VCP
0231/1653-0232/1653	8	CONESTOGA DR	188	RHE	VCP
0232/1598-0233/1598	8	ROLLING HILLS RD	256	RHE	VCP
0232/1653-0233/1653	8	CONESTOGA DR	309	RHE	VCP
0233/1653-0236/1653	8	SADDLE RD	331	RHE	VCP
0234/1653-0235/1653	8	POTRILLO RD	134	RHE	VCP
0235/1653-0236/1653	8	POTRILLO RD	137	RHE	VCP
0236/1653-0237/1653	8	SADDLE RD	137	RHE	VCP
0237/1653-0238/1653	8	SADDLE RD	300	RHE	VCP
0238/1653-0239/1653	8	SADDLE RD	155	RHE	VCP
0239/1653-0240/1653	8	SADDLE RD	247	RHE	VCP
0244/1598-0245/1598	8		181	RHE	VCP
0245/1598-0246/1598	8		78	RHE	VCP
0246/1598-0247/1598	8		259	RHE	VCP
0246/1652-0248/1652	8	BRIDLEWOOD CR	83	RHE	VCP
0247/1598-0248/1598	8		26	RHE	VCP
0248/1652-0249/1652	8	BRIDLEWOOD CR	293	RHE	VCP
0248/1652-TRNK/1652	8		261	RHE	VCP
0252/1598-0253/1598	8	SILVER SADDLE LN	355	RHE	VCP
0252/1653-0253/1653	8		327	RHE	VCP
0253/1598-0254/1598	8	SILVER SADDLE LN	295	RHE	VCP
0253/1653-0254/1653	8		283	RHE	VCP
0254/1598-0255/1598	8	SILVER SADDLE LN	370	RHE	VCP
0255/1598-0256/1598	8	SILVER SADDLE LN	314	RHE	VCP
0256/1598-0258/1598	8	SILVER SADDLE LN	336	RHE	VCP
0257/1545-0258/1545	8	MISTY ACRES RD	280	RHE	VCP
0257/1545-0267/1545	8	COUNTRY MEADOW RD	290	RHE	VCP
0257/1598-0258/1598	8	PALOS VERDES DR NO.	325	RHE	VCP
0258/1545-0259/1545	8	MISTY ACRES RD	273	RHE	VCP
0258/1598-0259/1598	8	PALOS VERDES DR NO.	221	RHE	VCP
0258/1598-TRNK/1598	8	PALOS VERDES DR NO.	140	RHE	VCP
0259/1545-0260/1545	8	MISTY ACRES RD	164	RHE	VCP
0259/1598-0260/1598	8	PALOS VERDES DR NO.	159	RHE	VCP
0260/1545-0261/1545	8	MISTY ACRES RD	224	RHE	VCP
0261/1545-0262/1545	8	MISTY ACRES RD	232	RHE	VCP
0261/1598-0262/1598	8	FOXPOINT LN	240	RHE	VCP
0261/1598-0499/1544	8	FOXPOINT LN	280	RHE	VCP
0262/1545-0263/1545	8	MISTY ACRES RD	199	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0262/1598-0264/1598	8	FOXPOINT LN	108	RHE	VCP
0263/1598-0264/1598	8	ROCKBLUFF DR	155	RHE	VCP
0264/1545-0265/1545	8	MISTY ACRES RD	286	RHE	VCP
0264/1598-0265/1598	8	ROCKBLUFF DR	313	RHE	VCP
0265/1545-0266/1545	8	MISTY ACRES RD	192	RHE	VCP
0265/1598-0266/1598	8	ROCKBLUFF DR	140	RHE	VCP
0266/1598-0267/1598	8	ROCKBLUFF DR	316	RHE	VCP
0267/1545-0268/1545	8	COUNTRY MEADOW RD	213	RHE	VCP
0267/1598-0268/1598	8	ROCKBLUFF DR	315	RHE	VCP
0267/1598-0274/1598	8	SILVER EAGLE RD	137	RHE	VCP
0268/1545-0269/1545	8	COUNTRY MEADOW RD	345	RHE	VCP
0268/1598-0269/1598	8	ROCKBLUFF DR	117	RHE	VCP
0269/1545-0270/1545	8	COUNTRY MEADOW RD	250	RHE	VCP
0269/1598-0270/1598	8	ROCKBLUFF DR	274	RHE	VCP
0270/1545-0271/1545	8	COUNTRY MEADOW RD	386	RHE	VCP
0270/1598-0271/1598	8	ROCKBLUFF DR	216	RHE	VCP
0271/1545-0272/1545	8	COUNTRY MEADOW RD	225	RHE	VCP
0271/1598-0272/1598	8		192	RHE	VCP
0272/1545-0273/1545	8	COUNTRY MEADOW RD	350	RHE	VCP
0272/1598-TRNK/1598	8		331	RHE	VCP
0273/1545-0274/1545	8	COUNTRY MEADOW RD	287	RHE	VCP
0274/1598-0275/1598	8	SILVER EAGLE RD	302	RHE	VCP
0275/1598-0276/1598	8	SILVER EAGLE RD	91	RHE	VCP
0275/1598-0277/1598	8	BROKENBOW LN	191	RHE	VCP
0277/1598-0278/1598	8	BROKENBOW LN	204	RHE	VCP
0278/1598-0279/1598	8	BROKENBOW LN	166	RHE	VCP
0280/1598-0281/1598	8	WILLOW WOOD RD	167	RHE	VCP
0280/1598-0572/1544	8	WILLOW WOOD RD	62	RHE	VCP
0281/1598-0282/1598	8	WILLOW WOOD RD	189	RHE	VCP
0282/1598-0283/1598	8	KINSPINE RD	289	RHE	VCP
0282/1598-0591/1544	8	KINSPINE RD	132	RHE	VCP
0283/1545-0284/1545	8	MISTY ACRES RD	389	RHE	VCP
0283/1598-0284/1598	8	KINSPINE RD	232	RHE	VCP
0284/1545-0285/1545	8	MISTY ACRES RD	374	RHE	VCP
0284/1598-0285/1598	8	KINSPINE RD	184	RHE	VCP
0285/1598-0286/1598	8	SILVER EAGLE RD	98	RHE	VCP
0285/1598-0287/1598	8	SILVER EAGLE RD	287	RHE	VCP
0286/1545-0287/1545	8		104	RHE	VCP
0287/1545-0288/1545	8		228	RHE	VCP
0287/1598-0288/1598	8	ELMDALE DR	230	RHE	VCP
0287/1598-0291/1598	8	ROLLINGWOOD DR	318	RHE	VCP
0288/1545-0289/1545	8		301	RHE	VCP
0288/1598-0289/1598	8	ELMDALE DR	276	RHE	LVCP
0289/1598-0290/1598	8	ELMDALE DR	211	RHE	VCP
0290/1545-0291/1545	8	HIGHRIDGE RD	362	RHE	VCP
0290/1598-0592/1544	8	ELMDALE DR	255	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0290/1653-0292/1653	8	MONTECILLO DR	128	RHE	VCP
0290/1653-0372/1653	8	MONTECILLO DR	259	RHE	VCP
0291/1545-0302/1545	8	HIGHRIDGE RD	376	RHE	VCP
0291/1598-0292/1598	8	ROLLINGWOOD DR	186	RHE	VCP
0291/1598-0294/1598	8		115	RHE	VCP
0291/1653-0024/1652	8	VISTA REAL DR	207	RHE	VCP
0291/1653-0292/1653	8	VISTA REAL DR	239	RHE	VCP
0292/1545-0293/1545	8		195	RHE	VCP
0292/1598-0293/1598	8	ROLLINGWOOD DR	215	RHE	VCP
0292/1653-0293/1653	8	MONTECILLO DR	309	RHE	VCP
0293/1545-0294/1545	8		196	RHE	VCP
0293/1598-0598/1544	8	ROLLINGWOOD DR	212	RHE	VCP
0294/1545-0295/1545	8		210	RHE	VCP
0294/1598-0295/1598	8		165	RHE	VCP
0294/1653-0035/1652	8	AURORA DR	302	RHE	VCP
0294/1653-0295/1653	8	AURORA DR	292	RHE	VCP
0295/1545-0301/1545	8		39	RHE	VCP
0295/1598-0296/1598	8	SILVER SPUR RD	86	RHE	VCP
0295/1653-0296/1653	8	AURORA DR	184	RHE	VCP
0296/1598-0297/1598	8	SILVER SPUR RD	228	RHE	VCP
0296/1653-0026/1652	8	CELESTE PL	195	RHE	VCP
0296/1653-0028/1652	8	MONTECILLO DR	125	RHE	VCP
0297/1598-0298/1598	8	SILVER SPUR RD	182	RHE	VCP
0298/1598-TRNK/1598	8	PALOS VERDES DR NO	118	RHE	VCP
0298/1653-0005/1652	8	DAPPLEGRAY LN	253	RHE	VCP
0298/1653-0008/1652	8	DAPPLEGRAY LN	282	RHE	VCP
0300/1545-0301/1545	8	SCOTWOOD DR	245	RHE	VCP
0300/1653-0153/1599	8		136	RHE	VCP
0300/1653-0372/1652	8	BUCKSKIN LN	220	RHE	LVCP
0301/1545-0302/1545	8	SCOTWOOD DR	218	RHE	VCP
0301/1598-TRNK/1598	8	PALOS VERDES DR NO	50	RHE	VCP
0302/1545-0303/1545	8	HIGHRIDGE RD	407	RHE	VCP
0302/1598-0303/1598	8	SADDLEBOW LN	285	RHE	VCP
0302/1653-0303/1653	8	BUCKSKIN LN	164	RHE	VCP
0303/1545-0304/1545	8	HIGHRIDGE RD	350	RHE	VCP
0303/1598-0304/1598	8	SADDLEBOW LN	339	RHE	VCP
0303/1653-0304/1653	8	BUCKSKIN LN	227	RHE	VCP
0304/1545-0305/1545	8	HIGHRIDGE RD	317	RHE	VCP
0304/1598-0305/1598	8		125	RHE	VCP
0304/1598-0308/1598	8		101	RHE	VCP
0304/1653-0305/1653	8		144	RHE	VCP
0304/1653-0307/1653	8	BUCKSKIN LN	268	RHE	VCP
0305/1545-0306/1545	8	HIGHRIDGE RD	362	RHE	VCP
0305/1598-0306/1598	8		242	RHE	VCP
0305/1653-0306/1653	8		126	RHE	VCP
0306/1545-0307/1545	8	WHITLEY COLLINS DR	216	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0306/1598-0307/1598	8	WILDHORSE LN	339	RHE	VCP
0307/1545-0308/1545	8	WHITLEY COLLINS DR	320	RHE	VCP
0307/1545-0332/1545	8	STONECREST RD	359	RHE	VCP
0307/1653-0308/1653	8	BUCKSKIN LN	161	RHE	VCP
0308/1598-0309/1598	8	HAWTHORNE BV	319	RHE	VCP
0308/1653-0309/1653	8		100	RHE	VCP
0308/1653-0310/1653	8	BUCKSKIN LN	105	RHE	VCP
0309/1598-0310/1598	8	HAWTHORNE BV	319	RHE	VCP
0309/1653-0138/1599	8		345	RHE	VCP
0310/1598-0315/1598	8	HAWTHORNE BV	50	RHE	VCP
0310/1653-0311/1653	8		165	RHE	VCP
0310/1653-0314/1653	8	BUCKSKIN LN	107	RHE	VCP
0311/1598-0312/1598	8	MOCCASIN LN	231	RHE	VCP
0311/1598-0508/1598	8	MOCCASIN LN	327	RHE	VCP
0311/1653-0312/1653	8		193	RHE	VCP
0312/1598-0313/1598	8	MOCCASIN LN	312	RHE	VCP
0312/1653-0313/1653	8		144	RHE	VCP
0313/1598-0314/1598	8	MOCCASIN LN	203	RHE	VCP
0314/1598-0315/1598	8		472	RHE	VCP
0314/1653-0315/1653	8	BUCKSKIN LN	256	RHE	VCP
0315/1598-0316/1598	8	HAWTHORNE BV	338	RHE	VCP
0315/1653-0316/1653	8		188	RHE	VCP
0315/1653-0318/1653	8	BUCKSKIN LN	244	RHE	VCP
0316/1598-0317/1598	8	HAWTHORNE BV	271	RHE	VCP
0316/1653-0317/1653	8		126	RHE	VCP
0317/1598-0380/1598	8	HAWTHORNE BV	290	RHE	VCP
0318/1598-0319/1598	8	MASONGATE DR	347	RHE	VCP
0318/1653-0319/1653	8	DAPPLEGRAY LN	172	RHE	VCP
0318/1653-0342/1653	8		140	RHE	VCP
0319/1598-0320/1598	8	STAGECOACH RD	264	RHE	VCP
0319/1598-0474/1598	8	MASONGATE DR	287	RHE	VCP
0319/1653-0320/1653	8	DAPPLEGRAY LN	272	RHE	VCP
0320/1598-0321/1598	8	STAGECOACH RD	132	RHE	VCP
0320/1653-0321/1653	8	SORREL LN	329	RHE	VCP
0320/1653-0322/1653	8	DAPPLEGRAY LN	333	RHE	VCP
0322/1598-0323/1598	8	FERNCREEK DR	360	RHE	VCP
0322/1598-0375/1598	8	MASONGATE DR	126	RHE	VCP
0322/1598-0474/1598	8	MASONGATE DR	183	RHE	VCP
0322/1653-0323/1653	8	DAPPLEGRAY LN	281	RHE	VCP
0323/1598-0324/1598	8	FERNCREEK DR	177	RHE	VCP
0323/1598-0325/1598	8		172	RHE	VCP
0323/1653-0324/1653	8	DAPPLEGRAY LN	197	RHE	VCP
0325/1598-0330/1598	8		183	RHE	VCP
0325/1653-0326/1653	8	DAPPLEGRAY LN	297	RHE	VCP
0326/1545-0332/1545	8	STONECREST RD	281	RHE	VCP
0326/1598-0327/1598	8		202	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0326/1653-0327/1653	8	DAPPLEGRAY LN	273	RHE	VCP
0327/1598-0328/1598	8		233	RHE	VCP
0327/1653-0229/1653	8	DAPPLEGRAY LN	229	RHE	VCP
0328/1598-0329/1598	8		176	RHE	VCP
0328/1653-0199/1652	8		332	RHE	VCP
0328/1653-0329/1653	8		257	RHE	VCP
0329/1598-0330/1598	8		91	RHE	VCP
0329/1598-0343/1598	8		11	RHE	VCP
0329/1653-0330/1653	8		230	RHE	VCP
0330/1598-0331/1598	8		106	RHE	VCP
0330/1653-0331/1653	8		255	RHE	VCP
0331/1545-0332/1545	8	QUAILWOOD DR	147	RHE	VCP
0331/1598-0332/1598	8		54	RHE	VCP
0332/1598-0333/1598	8		227	RHE	VCP
0333/1598-0334/1598	8		180	RHE	VCP
0334/1598-0335/1598	8		185	RHE	VCP
0335/1598-0336/1598	8		315	RHE	VCP
0336/1598-0365/1598	8		259	RHE	VCP
0337/1598-0338/1598	8		186	RHE	VCP
0338/1598-0339/1598	8	LATIGO LN	324	RHE	VCP
0338/1653-0339/1653	8	PALOS VERDES DR NO.	266	RHE	VCP
0339/1598-0342/1598	8	LATIGO LN	221	RHE	VCP
0339/1653-0340/1653	8		157	RHE	VCP
0340/1598-0341/1598	8		284	RHE	VCP
0340/1653-0341/1653	8		210	RHE	VCP
0341/1598-0342/1598	8		177	RHE	VCP
0341/1653-0342/1653	8		351	RHE	VCP
0342/1598-0343/1598	8		121	RHE	VCP
0343/1653-0344/1653	8	PALOS VERDES DR NO.	112	RHE	VCP
0343/1653-0349/1653	8	HITCHING POSTDR	216	RHE	VCP
0344/1598-0345/1598	8	HIDDEN VALLEY RD	239	RHE	VCP
0344/1653-0345/1653	8		336	RHE	VCP
0345/1598-0346/1598	8	PLEASANT HILL DR	210	RHE	VCP
0345/1598-0348/1598	8	HIDDEN VALLEY RD	276	RHE	VCP
0345/1653-0346/1653	8		49	RHE	VCP
0346/1598-0347/1598	8	PLEASANT HILL DR	203	RHE	VCP
0346/1653-0347/1653	8		200	RHE	VCP
0347/1653-0348/1653	8		68	RHE	VCP
0348/1598-0349/1598	8		270	RHE	VCP
0348/1598-0355/1598	8	HIDDEN VALLEY RD	217	RHE	VCP
0349/1598-0350/1598	8		349	RHE	VCP
0349/1653-0350/1653	8	HITCHING POSTDR	198	RHE	VCP
0350/1598-0351/1598	8		80	RHE	VCP
0350/1653-0351/1653	8	HITCHING POSTDR	308	RHE	VCP
0350/1653-0362/1653	8	TROTTERS TE	153	RHE	VCP
0351/1598-0352/1598	8		42	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0351/1653-0352/1653	8	HITCHING POSTDR	204	RHE	VCP
0352/1598-0353/1598	8	PLEASANT HILL DR	75	RHE	VCP
0352/1653-0353/1653	8		123	RHE	VCP
0352/1653-0356/1653	8	HITCHING POSTDR	135	RHE	VCP
0353/1598-0354/1598	8	PLEASANT HILL DR	268	RHE	VCP
0353/1653-0354/1653	8		213	RHE	VCP
0354/1653-0355/1653	8		260	RHE	LVCP
0355/1598-0357/1598	8	HIDDEN VALLEY RD	242	RHE	VCP
0356/1598-0357/1598	8		154	RHE	VCP
0356/1653-0357/1653	8	HITCHING POSTDR	221	RHE	VCP
0357/1598-0358/1598	8	HIDDEN VALLEY RD	213	RHE	VCP
0357/1653-0358/1653	8	HITCHING POSTDR	159	RHE	VCP
0358/1598-0359/1598	8	HIDDEN VALLEY RD	194	RHE	VCP
0359/1598-0360/1598	8	HIDDEN VALLEY RD	233	RHE	VCP
0359/1653-0360/1653	8	TROTTERS TE	321	RHE	VCP
0360/1598-0362/1598	8		247	RHE	VCP
0360/1653-0361/1653	8	TROTTERS TE	304	RHE	VCP
0361/1598-0362/1598	8		295	RHE	VCP
0361/1653-0362/1653	8	TROTTERS TE	161	RHE	VCP
0362/1598-0363/1598	8		151	RHE	VCP
0363/1598-0364/1598	8		153	RHE	VCP
0363/1653-0364/1653	8	PALOS VERDES DR EAST	140	RHE	VCP
0364/1598-0365/1598	8		84	RHE	VCP
0365/1598-0366/1598	8		81	RHE	VCP
0366/1598-0367/1598	8		185	RHE	VCP
0367/1598-0368/1598	8	SUGARHILL DR	305	RHE	VCP
0367/1653-0368/1653	8		123	RHE	VCP
0367/1653-TRNK/1653	8		208	RHE	VCP
0368/1598-0369/1598	8	SUGARHILL DR	195	RHE	VCP
0368/1653-0369/1653	8		225	RHE	VCP
0369/1598-0370/1598	8	SUGARHILL DR	323	RHE	VCP
0369/1653-0370/1653	8		195	RHE	VCP
0370/1598-0371/1598	8	HAMPSHIRE LN	132	RHE	VCP
0370/1598-0372/1598	8	SUGARHILL DR	246	RHE	VCP
0370/1653-0371/1653	8		192	RHE	VCP
0372/1598-0373/1598	8	SUGARHILL DR	169	RHE	VCP
0372/1652-0373/1652	8	BUCKSKIN LN	106	RHE	VCP
0372/1653-0373/1653	8	CASABA RD	256	RHE	VCP
0373/1545-0407/1545	8	COVERED WAGON LN	270	RHE	VCP
0373/1545-0408/1545	8	COVERED WAGON LN	232	RHE	VCP
0373/1598-0374/1598	8	SUGARHILL DR	325	RHE	VCP
0373/1653-0374/1653	8	CASABA RD	254	RHE	VCP
0374/1653-0375/1653	8	CASABA RD	306	RHE	VCP
0375/1598-0376/1598	8	MASONGATE DR	121	RHE	VCP
0375/1598-PUMP/1598	4	FERNCREEK DR	471	RHE	DIP
0375/1653-0376/1653	8	CASABA RD	329	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0377/1598-0378/1598	8	FERNCREEK DR	182	RHE	VCP
0378/1598-0379/1598	8	FERNCREEK DR	238	RHE	VCP
0378/1598-PUMP/1598	8	FERNCREEK DR	8	RHE	VCP
0380/1598-0381/1598	8	HAWTHORNE BV	291	RHE	VCP
0381/1598-0382/1598	8	HAWTHORNE BV	308	RHE	VCP
0382/1598-0383/1598	8	HAWTHORNE BV	272	RHE	VCP
0383/1545-0384/1545	8	COUNTRY LN	314	RHE	VCP
0383/1545-0392/1545	8		163	RHE	VCP
0383/1598-0384/1598	8	HAWTHORNE BV	55	RHE	VCP
0384/1545-0385/1545	8	COUNTRY LN	195	RHE	VCP
0385/1545-0386/1545	8	HORSESHOE LN	309	RHE	VCP
0385/1545-0410/1545	8	COUNTRY LN	314	RHE	VCP
0385/1598-0386/1598	8	PONDEROSA LN	216	RHE	VCP
0386/1545-0387/1545	8	HORSESHOE LN	360	RHE	VCP
0386/1598-0387/1598	8	PONDEROSA LN	230	RHE	VCP
0387/1545-0388/1545	8	HORSESHOE LN	281	RHE	VCP
0387/1598-0388/1598	8	PONDEROSA LN	70	RHE	VCP
0387/1598-0389/1598	8		73	RHE	VCP
0389/1545-0390/1545	8	HORSESHOE LN	354	RHE	VCP
0389/1598-0390/1598	8		144	RHE	VCP
0390/1545-1027/1545	8	HORSESHOE LN	128	RHE	VCP
0391/1545-0410/1545	8	HORSESHOE LN	129	RHE	VCP
0391/1545-1027/1545	8	HORSESHOE LN	111	RHE	VCP
0391/1598-0392/1598	8		350	RHE	VCP
0392/1545-0393/1545	8		210	RHE	VCP
0392/1598-0393/1598	8		166	RHE	VCP
0393/1545-0394/1545	8		348	RHE	VCP
0394/1545-0395/1545	8		180	RHE	VCP
0394/1545-0410/1545	8		234	RHE	VCP
0395/1545-0396/1545	8		271	RHE	VCP
0396/1545-0397/1545	8		123	RHE	VCP
0397/1545-0398/1545	8	QUARTERHORSE LN	74	RHE	VCP
0398/1545-0399/1545	8	QUARTERHORSE LN	142	RHE	VCP
0399/1545-0402/1545	8	QUARTERHORSE LN	86	RHE	VCP
0400/1545-0401/1545	8		350	RHE	VCP
0401/1545-0402/1545	8		138	RHE	VCP
0402/1545-0403/1545	8	QUARTERHORSE LN	192	RHE	VCP
0403/1545-0404/1545	8	QUARTERHORSE LN	227	RHE	VCP
0404/1545-0405/1545	8		211	RHE	VCP
0405/1545-0408/1545	8		180	RHE	VCP
0406/1545-0407/1545	8	COVERED WAGON LN	116	RHE	VCP
0408/1545-0409/1545	8	COVERED WAGON LN	127	RHE	VCP
0410/1545-0411/1545	8	COUNTRY LN	277	RHE	VCP
0411/1545-0412/1545	8	COUNTRY LN	325	RHE	VCP
0412/1545-0413/1545	8	COUNTRY LN	299	RHE	VCP
0413/1545-0414/1545	8		206	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0413/1545-0416/1545	8	COUNTRY LN	458	RHE	VCP
0414/1545-0415/1545	8	ARROEHEAD LN	300	RHE	VCP
0474/1544-0475/1544	8	VIA DE LA VISTA	219	RHE	VCP
0475/1544-0476/1544	8	VIA DE LA VISTA	244	RHE	VCP
0475/1544-0477/1544	8		185	RHE	VCP
0476/1598-0478/1598	8		147	RHE	VCP
0477/1598-0484/1598	8	SUNNYFIELD DR	252	RHE	VCP
0478/1598-0479/1598	8		73	RHE	VCP
0479/1598-0480/1598	8		15	RHE	VCP
0484/1598-0485/1598	8	SUNNYFIELD DR	267	RHE	VCP
0485/1598-0486/1598	8		102	RHE	VCP
0486/1598-0487/1598	8		79	RHE	VCP
0487/1598-0488/1598	8		54	RHE	VCP
0488/1598-0489/1598	8	LARIAT LN	341	RHE	VCP
0489/1598-PUMP/1598	4		485	RHE	DIP
0492/1598-0493/1598	8		58	RHE	VCP
0492/1598-0506/1598	8		281	RHE	VCP
0493/1598-0494/1598	8		110	RHE	VCP
0493/1598-PUMP/1598	8		10	RHE	VCP
0494/1598-0495/1598	8		114	RHE	VCP
0494/1598-0499/1598	8		29	RHE	VCP
0495/1598-0496/1598	8		120	RHE	VCP
0495/1598-0497/1598	8		12	RHE	VCP
0496/1544-0497/1544	8	HAWTHORNE BV	147	RHE	VCP
0497/1544-0498/1544	8	HAWTHORNE BV	268	RHE	VCP
0497/1598-0498/1598	8		283	RHE	VCP
0498/1544-0499/1544	8		120	RHE	VCP
0499/1544-0500/1544	8	FOXPOINT LN	38	RHE	VCP
0499/1598-0500/1598	8		239	RHE	VCP
0500/1545-0826/1545	10	INDIAN PEAK RD	380	RHE	VCP
0500/1598-0501/1598	8	DOBBIN LN	325	RHE	VCP
0501/1545-0502/1545	8	DEEP VALLEY RD	216	RHE	VCP
0501/1598-0502/1598	8	DOBBIN LN	230	RHE	LVCP
0502/1545-0503/1545	8	DEEP VALLEY RD	355	RHE	VCP
0502/1598-0503/1598	8	PALOS VERDES DR NO.	390	RHE	VCP
0503/1545-0504/1545	8	DEEP VALLEY RD	348	RHE	VCP
0504/1545-0508/1545	8	DEEP VALLEY RD	208	RHE	VCP
0504/1598-0505/1598	8		300	RHE	VCP
0505/1545-0506/1545	8		177	RHE	VCP
0505/1598-0506/1598	8		221	RHE	VCP
0506/1545-0507/1545	8		177	RHE	VCP
0507/1545-0508/1545	8		104	RHE	VCP
0507/1598-0508/1598	8	MOCCASIN LN	323	RHE	VCP
0508/1545-0509/1545	8	DEEP VALLEY RD	70	RHE	VCP
0509/1545-0510/1545	8	DEEP VALLEY RD	253	RHE	VCP
0511/1545-0512/1545	12	SILVER SPUR RD	296	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0512/1545-0513/1545	12	SILVER SPUR RD	292	RHE	VCP
0513/1545-0514/1545	10	SILVER SPUR RD	376	RHE	VCP
0514/1545-0515/1545	10	SILVER SPUR RD	461	RHE	VCP
0515/1545-0516/1545	10	SILVER SPUR RD	273	RHE	VCP
0516/1545-0531/1545	12	DRYBANK DR	31	RHE	VCP
0516/1545-0994/1545	8	DRYBANK DR	209	RHE	VCP
0517/1545-0518/1545	8	DEEP VALLEY RD	330	RHE	VCP
0518/1545-0519/1545	8		20	RHE	VCP
0518/1545-0994/1545	8	DRYBANK DR	222	RHE	VCP
0522/1545-0523/1545	8	SILVER SPUR RD	212	RHE	VCP
0523/1545-0524/1545	8	SILVER SPUR RD	295	RHE	VCP
0524/1545-0525/1545	8	SILVER SPUR RD	39	RHE	VCP
0525/1545-0526/1545	8	SILVER SPUR RD	255	RHE	VCP
0526/1545-0527/1545	8	SILVER SPUR RD	369	RHE	VCP
0527/1545-0528/1545	8	SILVER SPUR RD	383	RHE	VCP
0528/1545-0529/1545	8	SILVER SPUR RD	77	RHE	VCP
0529/1545-0530/1545	8	SILVER SPUR RD	117	RHE	VCP
0530/1545-0531/1545	8	SILVER SPUR RD	157	RHE	VCP
0532/1545-0521/1545	8		346	RHE	VCP
0538/1545-0828/1545	12	CROSSFIELD DR	233	RHE	VCP
0555/1544-0556/1544	8	WILLOW WOOD RD	202	RHE	VCP
0556/1544-0557/1544	8	WILLOW WOOD RD	191	RHE	VCP
0556/1544-0580/1544	8	DUNWOOD RD	151	RHE	VCP
0557/1544-0558/1544	8	WILLOW WOOD RD	335	RHE	VCP
0558/1544-0559/1544	8	SILVERSPRING DR	188	RHE	VCP
0558/1544-0566/1544	8	WILLOW WOOD RD	205	RHE	VCP
0559/1544-0560/1544	8	SILVERSPRING DR	177	RHE	VCP
0560/1544-0561/1544	8	SILVERSPRING DR	264	RHE	VCP
0560/1544-0565/1544	8	SILVERSPRING DR	165	RHE	VCP
0561/1544-0562/1544	8	SILVERSPRING DR	225	RHE	VCP
0562/1544-0563/1544	8	SILVERSPRING DR	107	RHE	VCP
0563/1544-0564/1544	8	SILVERSPRING DR	124	RHE	VCP
0564/1544-0565/1544	8	SILVERSPRING DR	203	RHE	VCP
0566/1544-0567/1544	8	WILLOW WOOD RD	166	RHE	VCP
0567/1544-0568/1544	8	WILLOW WOOD RD	173	RHE	VCP
0569/1544-0570/1544	8	WILLOW WOOD RD	227	RHE	VCP
0570/1544-0571/1544	8	WILLOW WOOD RD	175	RHE	VCP
0571/1544-0572/1544	8	WILLOW WOOD RD	168	RHE	VCP
0572/1544-0573/1544	8	BLUEMOUND RD	162	RHE	VCP
0573/1544-0574/1544	8	BLUEMOUND RD	188	RHE	VCP
0574/1544-0575/1544	8	BLUEMOUND RD	278	RHE	VCP
0575/1544-0576/1544	8	BLUEMOUND RD	180	RHE	VCP
0576/1544-0577/1544	8	BLUEMOUND RD	273	RHE	VCP
0577/1544-0578/1544	8	BLUEMOUND RD	154	RHE	VCP
0578/1544-0579/1544	8	BLUEMOUND RD	344	RHE	VCP
0579/1544-0581/1544	8	BLUEMOUND RD	159	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0580/1544-0581/1544	8	DUNWOOD RD	165	RHE	VCP
0581/1544-0582/1544	8	DUNWOOD RD	260	RHE	VCP
0582/1544-0583/1544	8	DUNWOOD RD	227	RHE	VCP
0583/1544-0584/1544	8	DUNWOOD RD	233	RHE	VCP
0584/1544-0585/1544	8	DUNWOOD RD	200	RHE	VCP
0585/1544-0586/1544	8	DUNWOOD RD	190	RHE	VCP
0586/1544-0587/1544	8	DUNWOOD RD	282	RHE	VCP
0587/1544-0588/1544	8	DUNWOOD RD	142	RHE	VCP
0588/1544-0589/1544	8	KINGSPINE RD	300	RHE	VCP
0588/1544-0595/1544	8	ROLLINGWOOD DR	285	RHE	VCP
0589/1544-0590/1544	8	KINGSPINE RD	263	RHE	VCP
0589/1544-0594/1544	8	ELMDALE DR	194	RHE	VCP
0590/1544-0591/1544	8	KINGSPINE RD	296	RHE	VCP
0592/1544-0593/1544	8	ELMDALE DR	226	RHE	VCP
0593/1544-0594/1544	8	ELMDALE DR	107	RHE	VCP
0595/1544-0596/1544	8	ROLLINGWOOD DR	200	RHE	VCP
0596/1544-0597/1544	8	ROLLINGWOOD DR	117	RHE	VCP
0597/1544-0598/1544	8	ROLLINGWOOD DR	107	RHE	VCP
0748/1545-0749/1545	8	VIA SEVILLE	324	RHE	VCP
0750/1545-0751/1545	8		258	RHE	VCP
0751/1545-0752/1545	8		250	RHE	VCP
0752/1545-0754/1545	8	VIA MAJORCA	135	RHE	VCP
0753/1545-0754/1545	8	VIA SEVILLE	125	RHE	VCP
0754/1545-0755/1545	8	VIA MAJORCA	129	RHE	VCP
0817/1545-0818/1545	8	INDIAN PEAK RD	212	RHE	VCP
0818/1545-0819/1545	8	SILVER SPUR RD	45	RHE	VCP
0818/1545-0829/1545	8		252	RHE	VCP
0819/1545-0820/1545	8	SILVER SPUR RD	92	RHE	VCP
0821/1545-0822/1545	8	INDIAN PEAK RD	290	RHE	VCP
0821/1545-0834/1545	8	INDIAN PEAK RD	20	RHE	VCP
0822/1545-0823/1545	8	INDIAN PEAK RD	245	RHE	VCP
0823/1545-0824/1545	8	INDIAN PEAK RD	91	RHE	VCP
0824/1545-0825/1545	8	INDIAN PEAK RD	394	RHE	VCP
0824/1545-0853/1545	8	INDIAN PEAK RD	50	RHE	VCP
0825/1545-0826/1545	8	INDIAN PEAK RD	301	RHE	VCP
0826/1545-0969/1545	8	INDIAN PEAK RD	34	RHE	VCP
0827/1545-0828/1545	10	CROSSFIELD DR	302	RHE	VCP
0827/1545-0833/1545	10		339	RHE	VCP
0827/1545-0969/1545	12	CROSSFIELD DR	211	RHE	VCP
0829/1545-0830/1545	10		122	RHE	VCP
0830/1545-0831/1545	10		355	RHE	VCP
0831/1545-0832/1545	10		272	RHE	VCP
0832/1545-0833/1545	10		340	RHE	VCP
0834/1545-0835/1545	8		179	RHE	VCP
0835/1545-0841/1545	8		51	RHE	VCP
0839/1545-0927/1545	8	AVOCADO LN	89	RHE	VCP

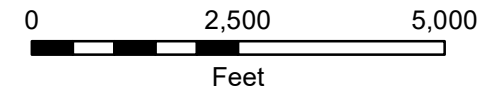
PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0840/1545-0927/1545	8	AVOCADO LN	110	RHE	VCP
0840/1545-0928/1545	8	AVOCADO LN	55	RHE	VCP
0841/1545-0847/1545	8		99	RHE	VCP
0841/1545-0928/1545	8	AVOCADO LN	63	RHE	VCP
0842/1545-0843/1545	8	COTTONWOOD CR	328	RHE	VCP
0843/1545-0845/1545	8	COTTONWOOD CR	70	RHE	VCP
0845/1545-0846/1545	8		48	RHE	VCP
0846/1545-0847/1545	8		61	RHE	VCP
0847/1545-0848/1545	8		104	RHE	VCP
0848/1545-0849/1545	8		244	RHE	VCP
0849/1545-0850/1545	8		229	RHE	VCP
0850/1545-0851/1545	8	COTTONWOOD CR	114	RHE	VCP
0851/1545-0852/1545	8	COTTONWOOD CR	192	RHE	VCP
0853/1545-0854/1545	8		127	RHE	VCP
0854/1545-0855/1545	8		70	RHE	VCP
0854/1545-0875/1545	8		70	RHE	VCP
0855/1545-0856/1545	8		72	RHE	VCP
0856/1545-0857/1545	8		106	RHE	VCP
0857/1545-0858/1545	8	OAKTREE LN	103	RHE	VCP
0858/1545-0860/1545	8		59	RHE	VCP
0859/1545-0860/1545	8		235	RHE	VCP
0859/1545-0879/1545	8		253	RHE	VCP
0860/1545-0861/1545	8		93	RHE	VCP
0861/1545-0864/1545	8		98	RHE	VCP
0862/1545-0863/1545	8		237	RHE	VCP
0863/1545-0864/1545	8		262	RHE	VCP
0864/1545-0865/1545	8	CYPRESS WY	97	RHE	VCP
0865/1545-0866/1545	8		57	RHE	VCP
0866/1545-0867/1545	8		254	RHE	VCP
0867/1545-0868/1545	8		330	RHE	VCP
0868/1545-0870/1545	8		153	RHE	VCP
0869/1545-0870/1545	8		160	RHE	VCP
0870/1545-0871/1545	8		28	RHE	VCP
0871/1545-0873/1545	8	SYCAMORE LN	210	RHE	VCP
0872/1545-0873/1545	8		211	RHE	VCP
0873/1545-0874/1545	8		155	RHE	VCP
0875/1545-0876/1545	8		55	RHE	VCP
0876/1545-0877/1545	8		362	RHE	VCP
0877/1545-0878/1545	8		60	RHE	VCP
0878/1545-0892/1545	8	OAKTREE LN	117	RHE	VCP
0890/1545-0891/1545	8		130	RHE	VCP
0891/1545-0892/1545	8	OAKTREE LN	28	RHE	VCP
0892/1545-0893/1545	8		165	RHE	VCP
0893/1545-0894/1545	8		225	RHE	VCP
0894/1545-0895/1545	8		149	RHE	VCP
0895/1545-0898/1545	8		227	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
0896/1545-0897/1545	8	CYPRESS WY	350	RHE	VCP
0897/1545-0898/1545	8		350	RHE	VCP
0899/1545-0900/1545	8		239	RHE	VCP
0900/1545-0901/1545	8	ASPEN WY	307	RHE	VCP
0901/1545-0902/1545	8		54	RHE	VCP
0907/1545-0908/1545	8		241	RHE	VCP
0908/1545-0909/1545	8		301	RHE	VCP
0909/1545-0910/1545	8		86	RHE	VCP
0910/1545- SOUTH/1545	8		50	RHE	VCP
0916/1545-0917/1545	8	HAWTHORNE BV	373	RHE	VCP
0917/1545-0918/1545	8		133	RHE	VCP
0918/1545-0919/1545	8		151	RHE	VCP
0919/1545-0920/1545	8		208	RHE	VCP
0920/1545-0921/1545	8		57	RHE	VCP
0921/1545-0922/1545	8	SILVER SPUR RD	36	RHE	VCP
0922/1545-0923/1545	8	SILVER SPUR RD	153	RHE	VCP
0968/1545-1067/1545	8		228	RHE	VCP
1008/1545-1009/1545	8		154	RHE	ABSCP
1009/1545-1010/1545	8		78	RHE	ABSCP
1009/1545-1030/1545	8		100	RHE	ABSCP
1010/1545-1011/1545	8		253	RHE	ABSCP
1010/1545-1029/1545	8		86	RHE	ABSCP
1011/1545-1012/1545	8		148	RHE	ABSCP
1011/1545-1028/1545	8		129	RHE	ABSCP
1012/1545-1013/1545	8		145	RHE	ABSCP
1013/1545-1015/1545	8		232	RHE	ABSCP
1013/1545-1031/1545	8		97	RHE	ABSCP
1014/1545-1015/1545	8		98	RHE	ABSCP
1015/1545-1016/1545	8		132	RHE	ABSCP
1016/1545-1017/1545	8		236	RHE	ABSCP
1017/1545-1018/1545	8		231	RHE	ABSCP
1018/1545-1019/1545	8		172	RHE	ABSCP
1019/1545-1020/1545	8	HILLCREST MANOR	170	RHE	ABSCP
1020/1545-1021/1545	8	HILLCREST MANOR	211	RHE	ABSCP
1020/1545-1026/1545	8		119	RHE	ABSCP
1021/1545-1022/1545	8	HILLCREST MANOR	306	RHE	ABSCP
1022/1545-1023/1545	8	HILLCREST MANOR	197	RHE	ABSCP
1022/1545-1024/1545	8	HILLCREST MANOR	302	RHE	ABSCP
1024/1545-1025/1545	8	HILLCREST MANOR	275	RHE	ABSCP
1026/1545-1027/1545	8		260	RHE	ABSCP
1041/1545-1042/1545	8		139	RHE	VCP
1042/1545-1043/1545	8	PEPPER TREE LN	36	RHE	VCP
1043/1545-1044/1545	8	PEPPER TREE LN	169	RHE	VCP
1043/1545-1047/1545	8	PEPPER TREE LN	292	RHE	VCP
1044/1545-1045/1545	8	PEPPER TREE LN	267	RHE	VCP
1047/1545-1046/1545	8	PEPPER TREE LN	267	RHE	VCP

PIPE_LOCN	DIAMETER (in)	STREET	P_LENGTH (ft)	JUR	MATL
1047/1545-1048/1545	8	PEPPER TREE LN	51	RHE	VCP
1067/1545-1068/1545	8	SANTA CRUZ ST	327	RHE	VCP
1067/1545-1071/1545	8	SANTA CRUZ ST	232	RHE	VCP
1068/1545-1069/1545	8	SANTA CRUZ ST	331	RHE	VCP
1068/1545-1085/1545	8		228	RHE	VCP
1069/1545-1070/1545	8	SANTA CRUZ ST	344	RHE	VCP
1070/1545-1076/1545	8		139	RHE	VCP
1070/1545-1077/1545	8	ANACAPA ST	207	RHE	VCP
1071/1545-1072/1545	8	SANTA CRUZ ST	164	RHE	VCP
1071/1545-1082/1545	8		217	RHE	VCP
1072/1545-1073/1545	8	SANTA CRUZ ST	285	RHE	VCP
1073/1545-1074/1545	8	SANTA CRUZ ST	289	RHE	VCP
1074/1545-1075/1545	8	SANTA CRUZ ST	235	RHE	VCP
1074/1545-1079/1545	8	ANACAPA ST	153	RHE	VCP
1077/1545-1078/1545	8	ANACAPA ST	57	RHE	VCP
1077/1545-1087/1545	8	SAN MIGUEL ST	181	RHE	VCP
1079/1545-1080/1545	8	ANACAPA ST	254	RHE	VCP
1080/1545-1081/1545	8	ANACAPA ST	289	RHE	VCP
1082/1545-1083/1545	8	SANTA ROSA	336	RHE	VCP
1083/1545-1084/1545	8	SANTA ROSA	200	RHE	VCP
1085/1545-1086/1545	8	SAN MIGUEL ST	207	RHE	VCP

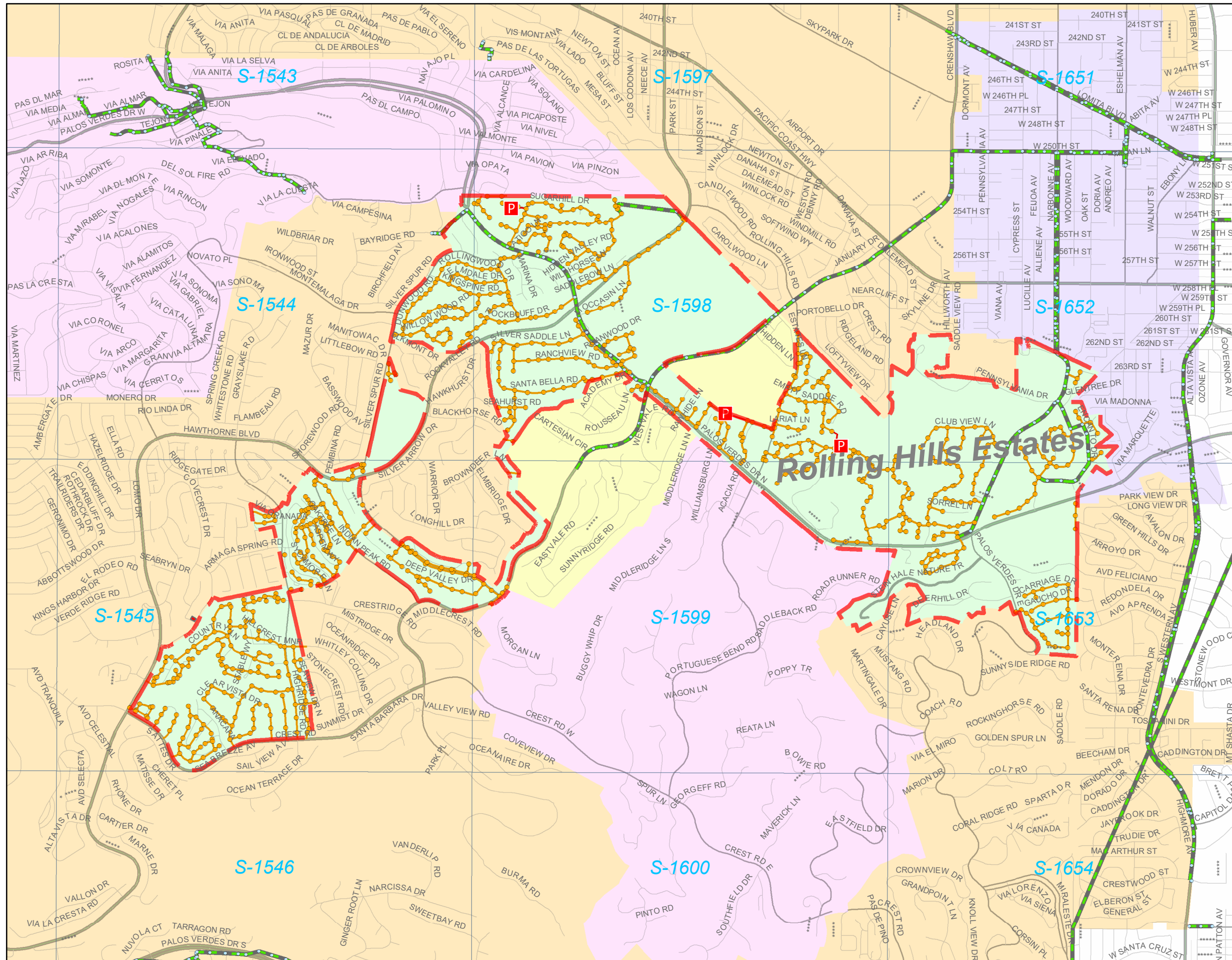
Count Pipes: 847

Sewer Facilities in the City of Rolling Hills Estates



Legend

- SMD Manholes
- P SMD Pump Stations
- Trunk Sewer MHs
- Gravity Sewers
- Force Mains
- Siphons
- Trunk Main Lines
- SMD Operations Maps

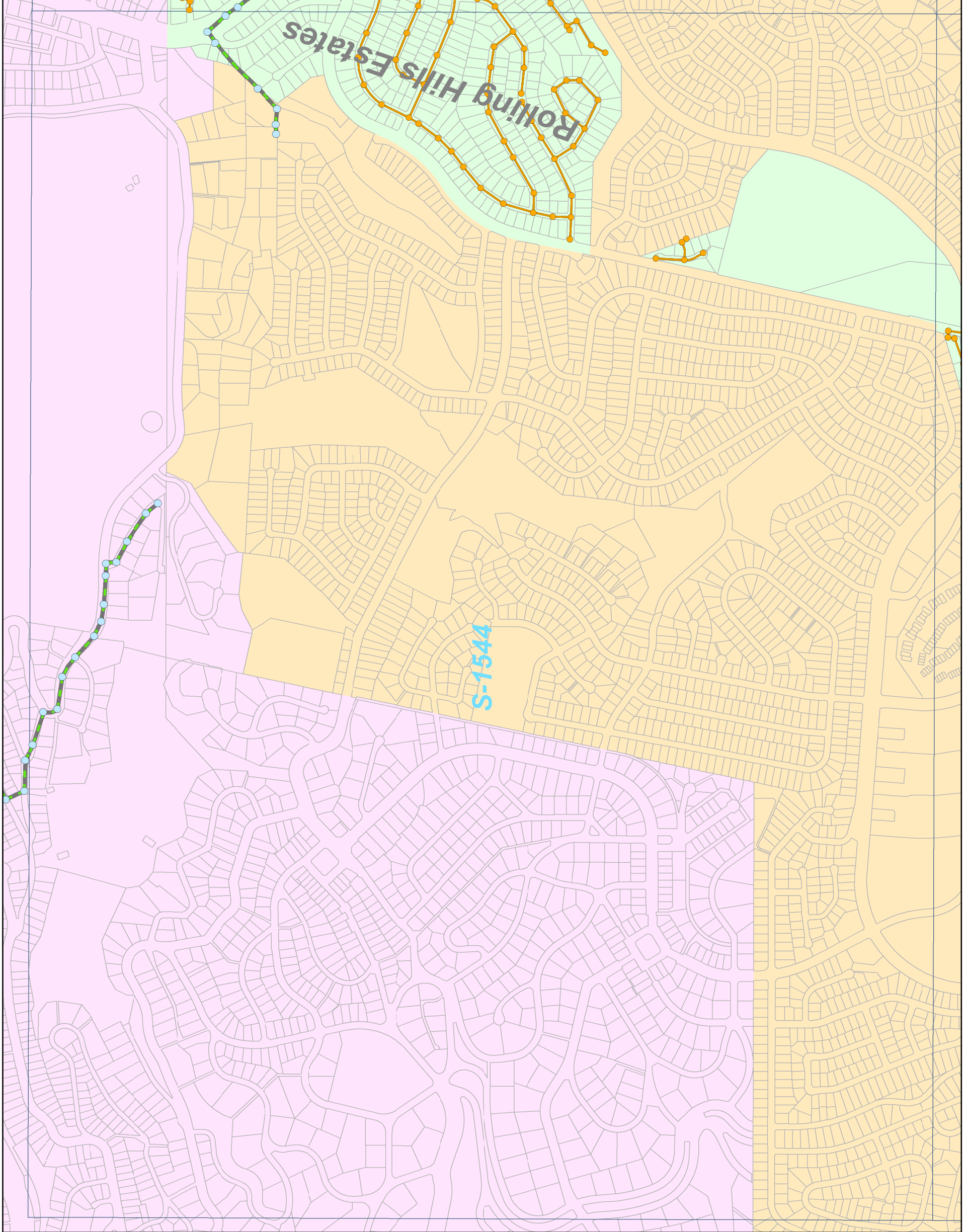


Sewer Facilities
in the City of
Rolling Hills Estates
SMD S-1544

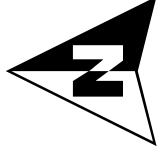


Legend

- SMD Manholes
- SMD Pump Stations
- Trunk Sewer MHs
- Gravity Sewers
- Force Mains
- Siphons
- Trunk Main Lines
- SMD Operations Maps

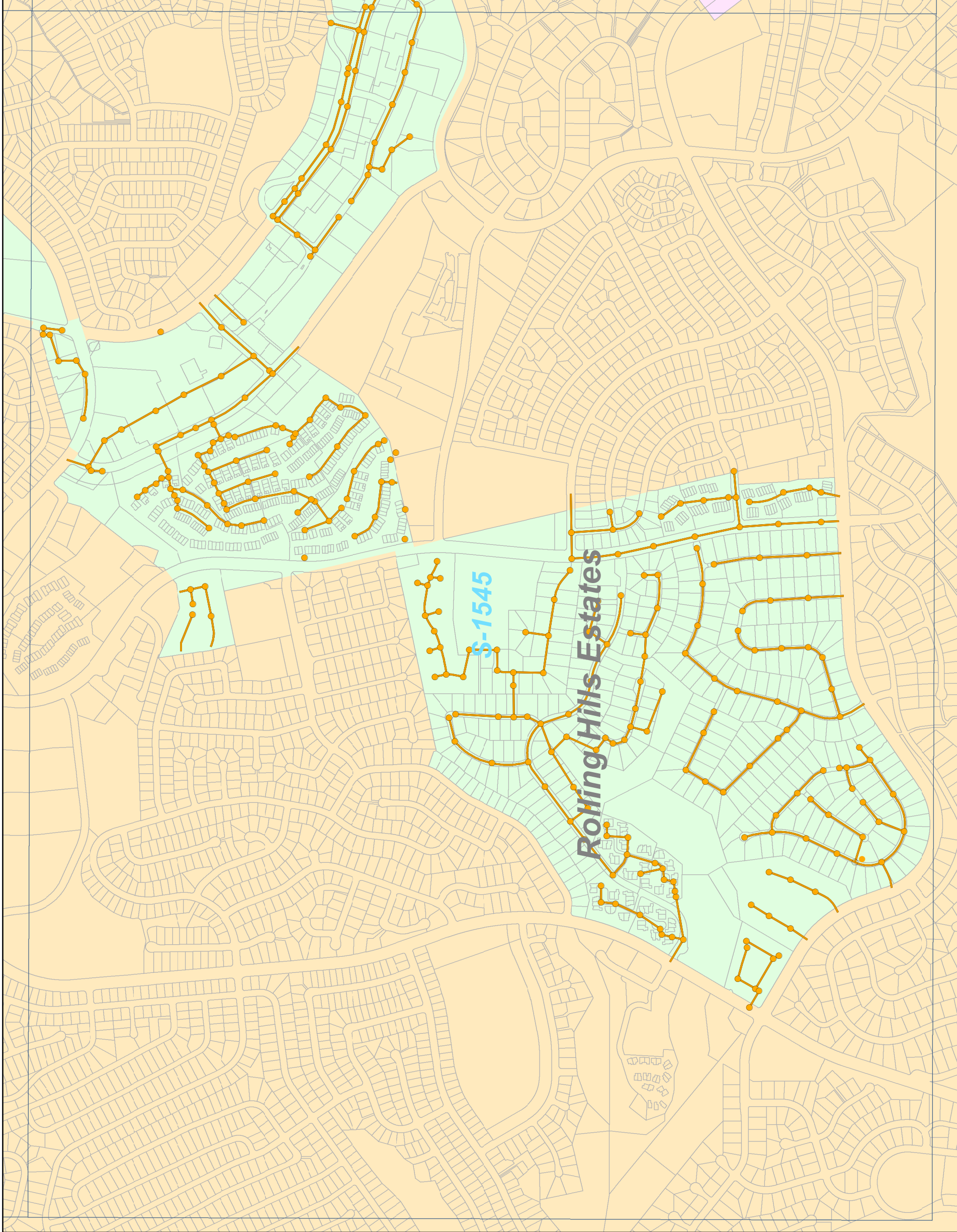


Sewer Facilities
in the City of
Rolling Hills Estates
SMD S-1545

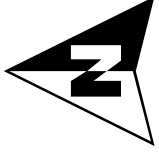


Legend

- SMD Manholes
- SMD Pump Stations
- Trunk Sewer MHs
- Gravity Sewers
- Force Mains
- Siphons
- Trunk Main Lines
- SMD Operations Maps

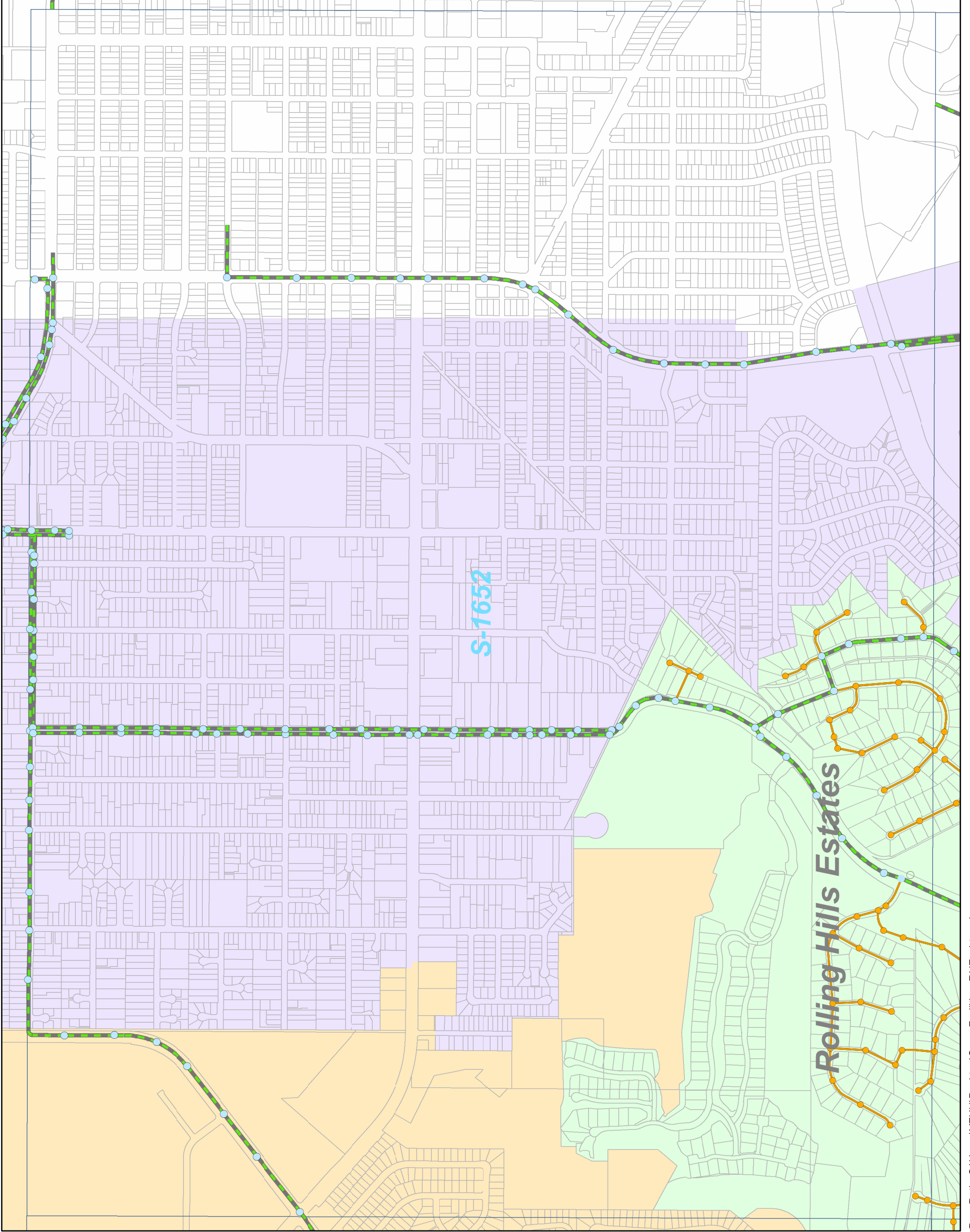


Sewer Facilities
in the City of
Rolling Hills Estates
SMD S-1652

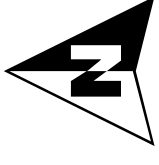


Legend

- SMD Manholes
- SMD Pump Stations
- Trunk Sewer MHs
- Gravity Sewers
- Force Mains
- Siphons
- Trunk Main Lines
- SMD Operations Maps

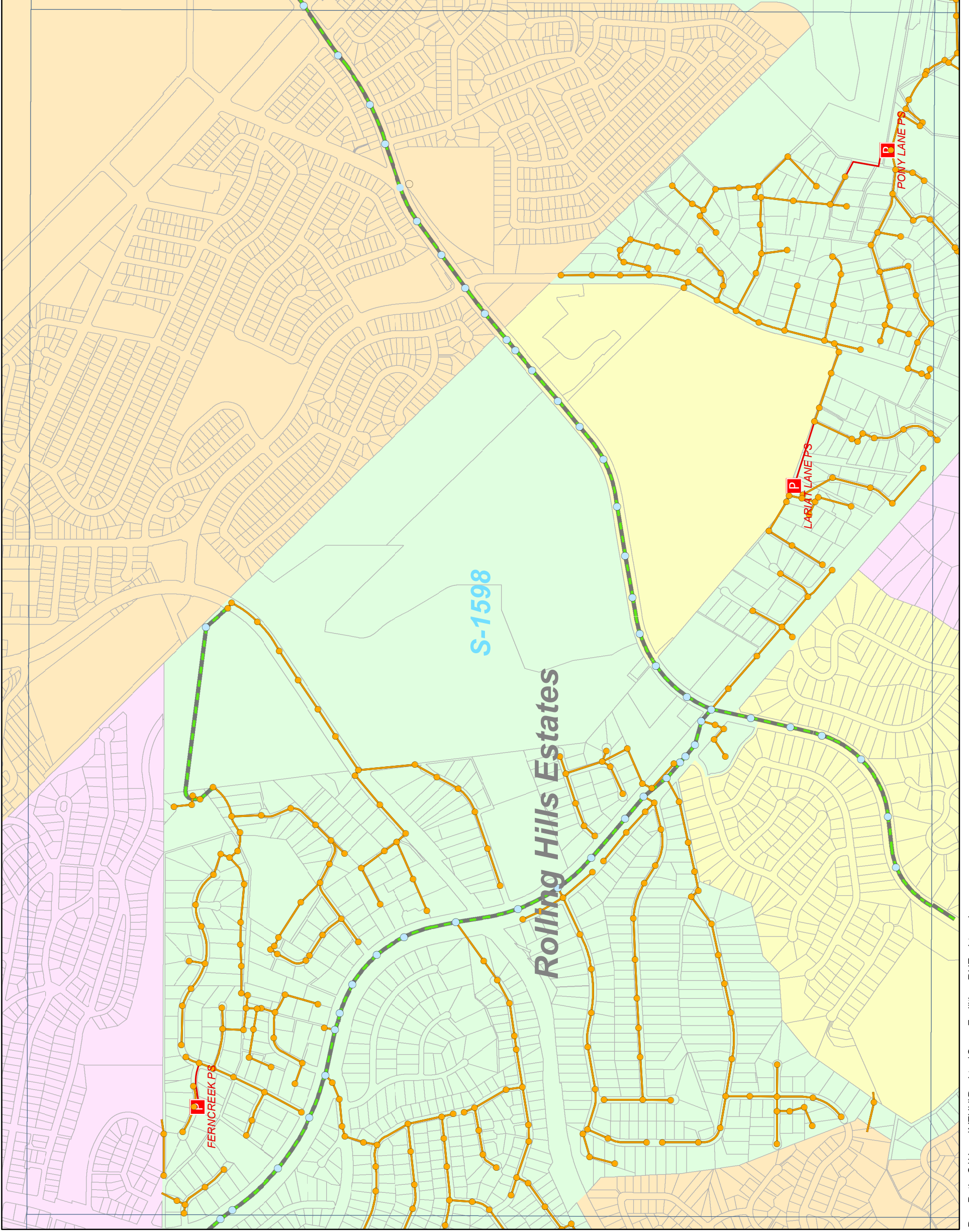


Sewer Facilities in the City of Rolling Hills Estates SMD S-1598



Legend

- SMD Manholes
- P SMD Pump Stations
- Trunk Sewer MHs
- Gravity Sewers
- Force Mains
- Siphons
- Trunk Main Lines
- SMD Operations Maps

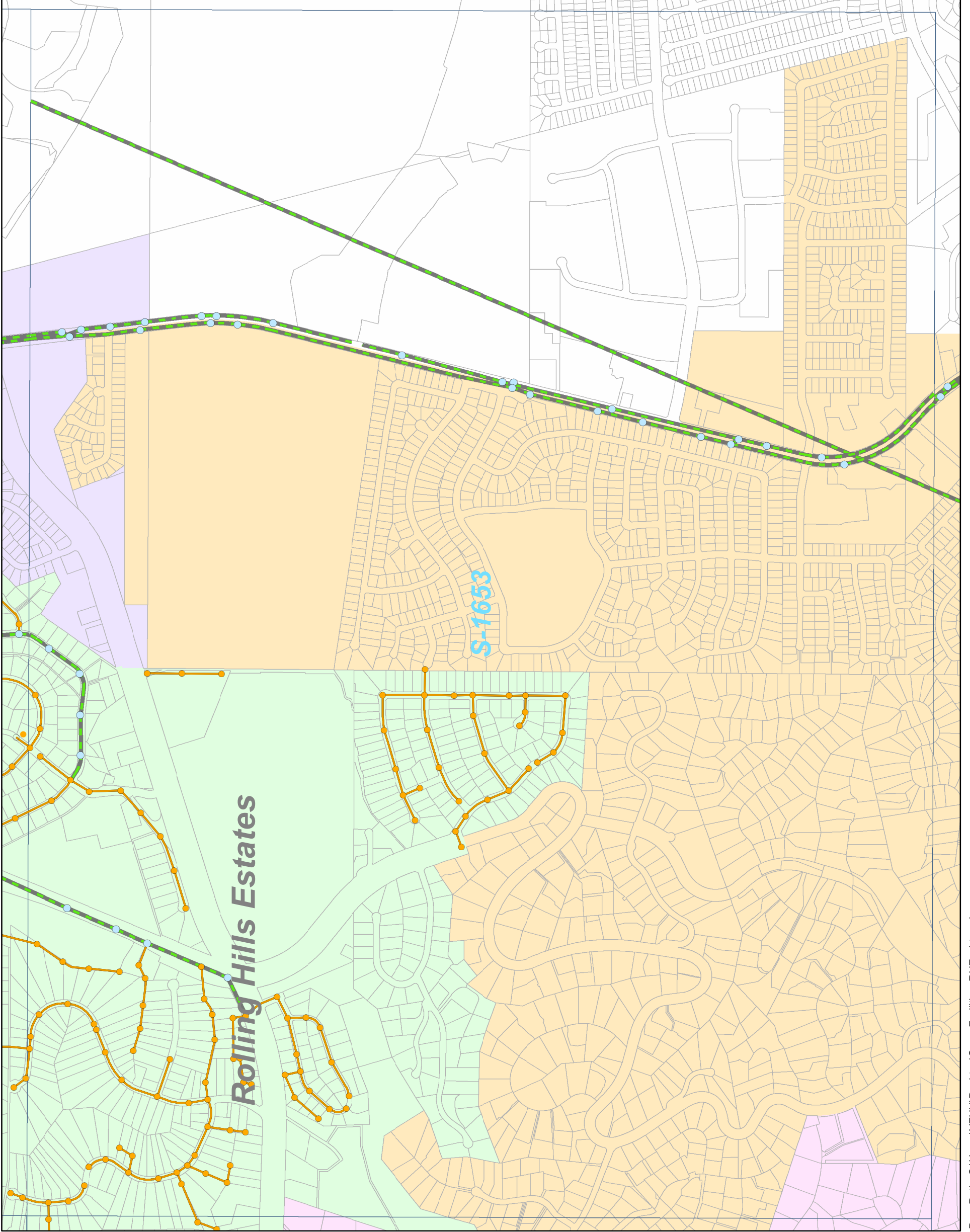


Sewer Facilities
in the City of
Rolling Hills Estates
SMD S-1653

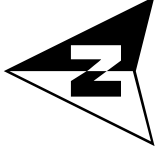


Legend

- SMD Manholes
- SMD Pump Stations
- Trunk Sewer MHs
- Gravity Sewers
- Force Mains
- Siphons
- Trunk Main Lines
- SMD Operations Maps

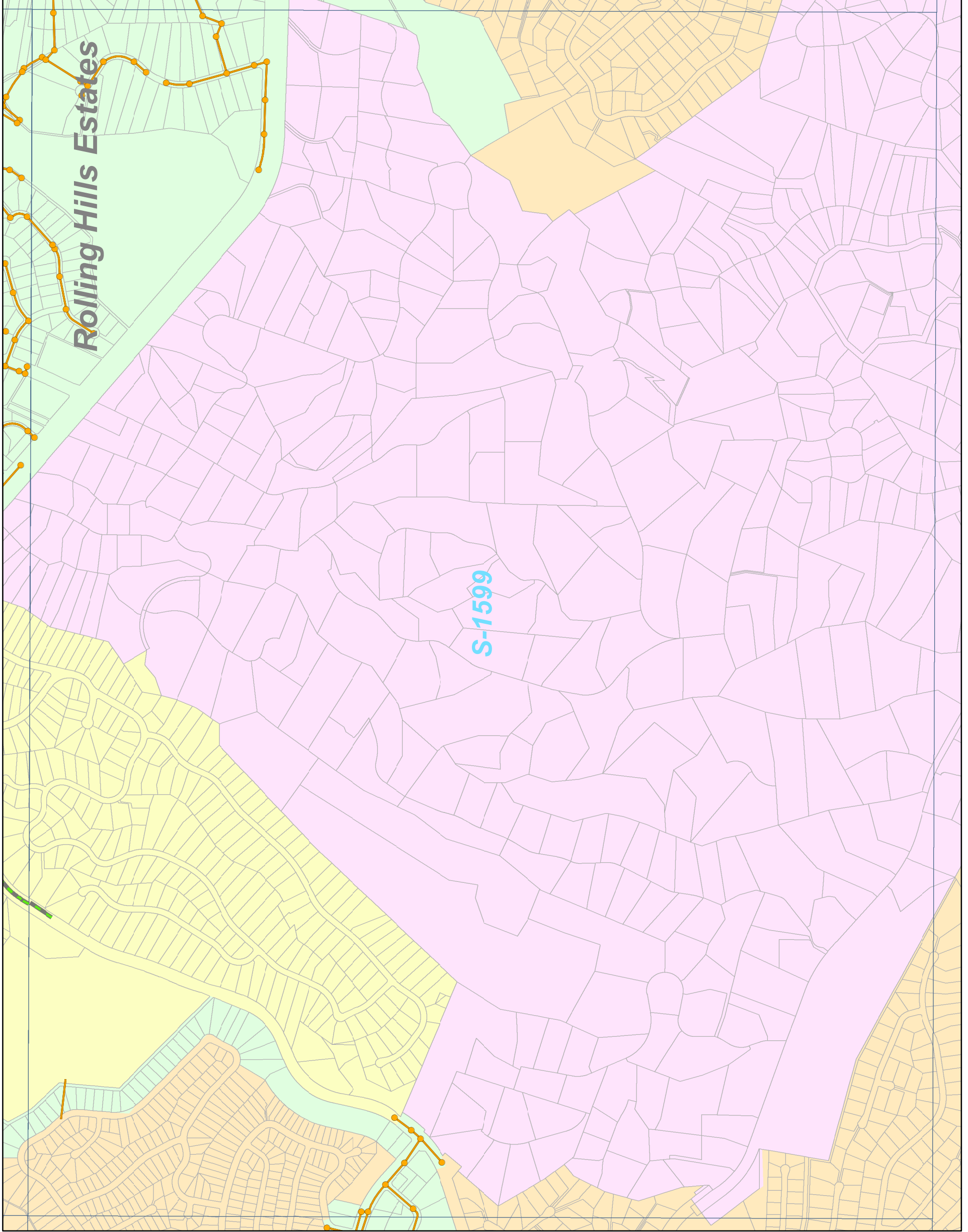


Sewer Facilities
in the City of
Rolling Hills Estates
SMD S-1599



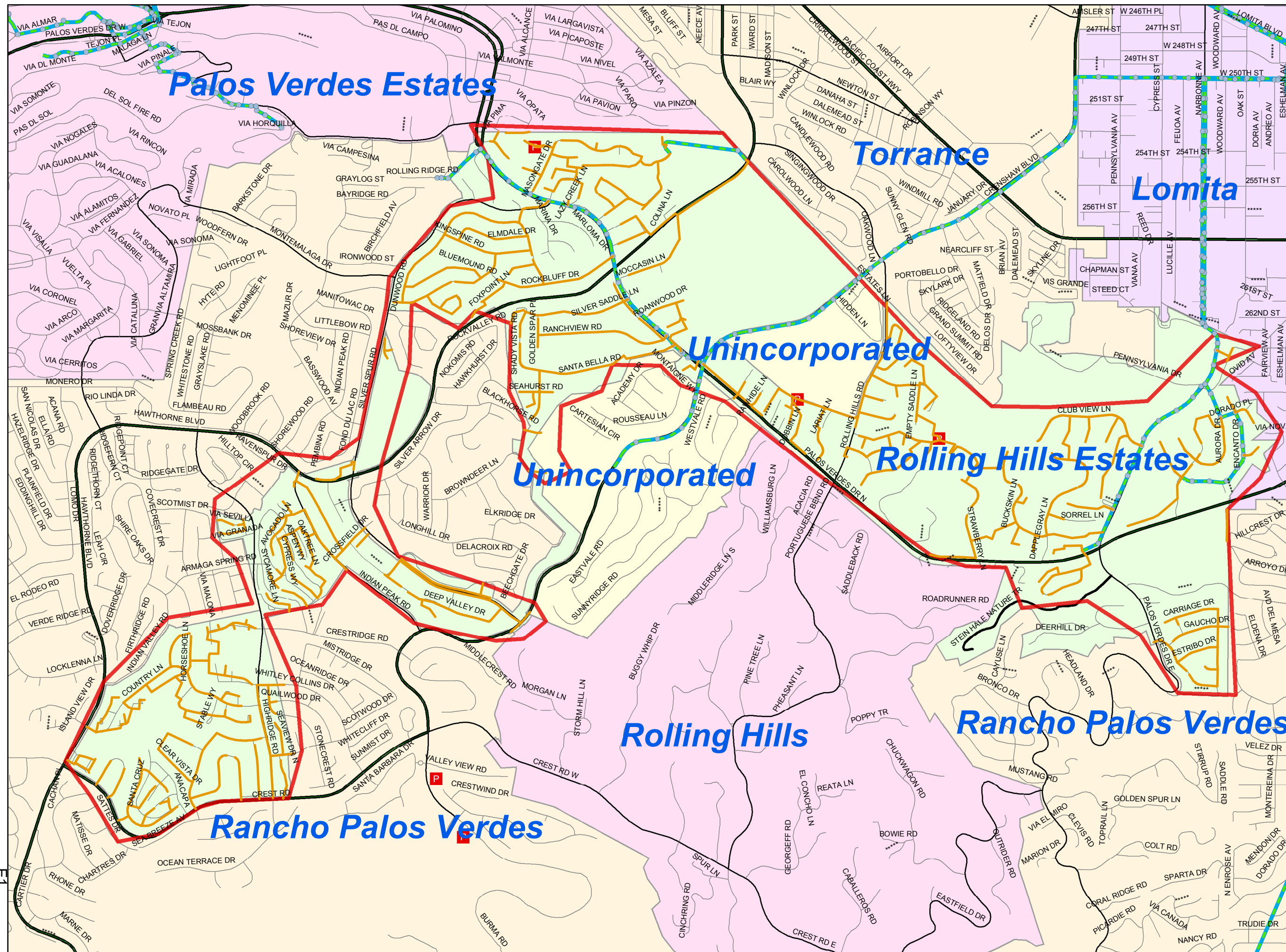
Legend

- SMD Manholes
- SMD Pump Stations
- Trunk Sewer MHs
- Gravity Sewers
- Force Mains
- Siphons
- Trunk Main Lines
- SMD Operations Maps



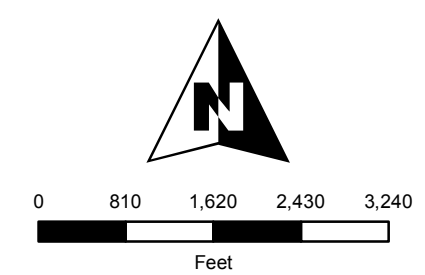
APPENDIX E
CONDITION ASSESSMENT
WORK SCHEDULE

**City of
Rolling Hills Estates
CCTV Inspection
Scheduled for
FY 2019-2020**



Legend

- SMD Pump Stations
- Trunk Sewer Lines
- CCTV Project**
- Boundary
- Approximately 32 miles of sewer lines will be inspected in FY 2019-20



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APPENDIX F
INDUSTRIAL WASTE CONTRACT
WITH THE COUNTY

AGREEMENT - INDUSTRIAL WASTE

THIS AGREEMENT, made and entered into this 27 day of April, 1961, by and between the COUNTY OF LOS ANGELES, hereinafter sometimes referred to as "County," and the CITY OF ROLLING HILLS ESTATES, hereinafter sometimes referred to as "City."

W I T N E S S E T H:

THAT, WHEREAS, the City has heretofore on April 26, 1961, adopted Ordinance No. 101, which adopted by reference the County's Sanitary Sewers and Industrial Waste Ordinance; and

WHEREAS, the City is desirous of contracting with the County for the enforcement of such Ordinance and the performance of services with respect to industrial waste, as in said Ordinance set forth; and

WHEREAS, the County of Los Angeles is agreeable to rendering such services on the terms and conditions hereinafter set forth; and

WHEREAS, such contract is authorized and provided for by the provisions of Section 56-1/2 of the Charter of the County of Los Angeles, and Article 1, Chapter 1, Part 2, Division 1, Title 5 of the Government Code;

NOW, THEREFORE, IT IS AGREED as follows:

1. The County agrees, through the Engineer of the County of Los Angeles, to provide enforcement of the industrial waste provisions of the above referred to City Ordinance and the necessary services incident thereto.

APPROVED BY BOARD OF SUPERVISORS

MAY 23 1961

Such services shall only encompass duties and functions of the type coming within the jurisdiction of, and customarily rendered by, the County Engineer of the County of Los Angeles under the Charter of said County, the statutes of the State, and the various County ordinances.

The level of service provided shall be that same basic level of service that now is and shall be hereafter during the term of this agreement provided for unincorporated areas of the County of Los Angeles by said Engineer.

The rendition of such services, the standards of performance, and other matters incidental to the performance of such services, including the controlling of personnel so employed, shall remain in the County. In the event of dispute between the parties as to the extent of the duties and functions to be rendered hereunder, or the level or manner of performance of such service, the determination thereof made by the Engineer of the County shall be final and conclusive as between the parties.

The services shall include the enforcement of any applicable State statutes and all provisions of the above referred to city ordinance as the same now exists or may be hereafter amended.

The services shall include the inspection of open sanitary fills only in the event that the city, by action of its Council, requests such services.

2. To facilitate the performance of said functions it is agreed that the County shall have full co-operation and assistance from the City, its officers, agents and employees.

3. For the purpose of performing said functions, County shall furnish and supply all necessary labor, supervision, equipment and supplies necessary to maintain the level of service to be rendered hereunder.

Notwithstanding anything hereinbefore contained, it is agreed that in all instances wherein special supplies, stationery, notices, forms and the like must be issued in the name of said City, the same shall be supplied by said City at its own cost and expense.

4. All persons employed in the performance of such services and functions for said City shall be County employees and no City employee as such shall be taken over by said County, and no person employed hereunder shall have any City pension, civil service, or any status or right.

For the purpose of performing such services and functions, and for the purpose of giving official status to the performance thereof where necessary, every County officer and employee engaged in the performance of any service hereunder shall be deemed to be an officer or employee of said City while performing services for said City, which services are within the scope of this agreement and are purely municipal functions.

5. City shall not be called upon to assume any liability for the direct payment of any salaries, wages, or other compensation to any County personnel performing services hereunder for said County, or any liability other than that provided for in this agreement.

Except as herein otherwise specified, the City shall not be liable for compensation or indemnity to any County employee for injury or sickness arising out of his employment.

6. County, its officers and employees, shall not be deemed to assume any liability for intentional or negligent acts of said City or of any officer or employee thereof, and said City shall hold said County and its officers and employees harmless from, and shall defend said County and its officers and employees against, all claims for damages resulting therefrom.

7. This contract is entered into with the understanding that the City will maintain in full force and effect, including the amount of fees provided, an ordinance substantially identical with the provisions of County Ordinance No. 6130. This contract may be terminated by the County without necessity of notice if City does not enact amendments to said ordinance in accordance with amendments to County Ordinance No. 6130 within one hundred twenty days after request to do so by County. The County Engineer, acting on behalf of the County, may use discretion and need not request City to adopt amendments which do not apply to the City or its problems.

8. County agrees to collect fees called for in the City's ordinance and to account therefor to the City quarterly. County agrees to pay City, within sixty days following each calendar quarter, all of the excess over expenditures for services, and City agrees to pay County, within said sixty days, any deficit between expenditures for services and total fees collected. Expenditures for services, for the purpose of this agreement, shall be the entire cost to the County of performing each such function, including salaries of employees engaged in performing the service, as well as vacation, sick leave, retirement,

workmen's compensation insurance premiums, supervision over such employees while so employed, traveling expenses and supplies, plus a pro-rate of indirect expenses. If the cost for providing the service is changed, the City shall be notified of such change, in writing.

9. It is further agreed that the City shall not be charged for periodic inspections of facilities for pretreatment of industrial waste prior to discharge into sanitary sewers in the event that the cost of such services has been defrayed by funds of a sewer maintenance district.

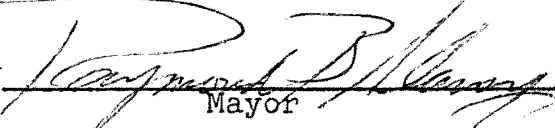
10. The County agrees to keep such books and records and in such form and manner as the County Auditor of the County of Los Angeles shall specify. Said books shall be open for examination by said City at all reasonable times.

11. This contract shall become effective on May 26, 1961 and shall continue in full force and effect until June 30, 1963. This agreement shall be automatically renewed from year to year for successive one year periods thereafter unless either party hereto gives written notice of intent to terminate not less than two months prior to the annual renewal date, in which event the contract shall not be renewed for the succeeding year but shall terminate at the end of the then current annual period.

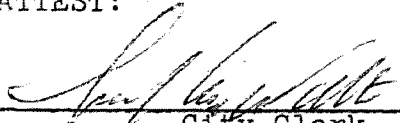
IN WITNESS WHEREOF, the City of Rolling Hills Estates, by resolution duly adopted by its City Council, caused this agreement to be signed by its Mayor and attested by its Clerk,

and the County of Los Angeles, by order of its Board of Supervisors, has caused these presents to be subscribed by the Chairman of said Board and the seal of said Board to be affixed thereto and attested by the Clerk of said Board, all on the day and year first above written.

CITY OF ROLLING HILLS ESTATES

By 
Mayor

ATTEST:


City Clerk

COUNTY OF LOS ANGELES

By ERNEST E. DEBS
Chairman, Board of Supervisors

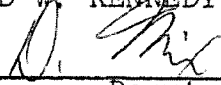
ATTEST:

GORDON T. NESVIG
Clerk of the Board of Supervisors

By JAMES S. MIZE
Deputy

(SEAL)

APPROVED AS TO FORM:
HAROLD W. KENNEDY, County Counsel

By 
Deputy

APPENDIX G
PRODUCTIVITY REPORT

**SEWER MAINTENANCE PRODUCTIVITY REPORT
COLLECTION SYSTEM - DIVISION LEVEL
FIELD WORK COMPLETED: January 1 to December 31, 2013
CITY OF ROLLING HILLS ESTATES**

Total pipe length (feet) as of December 31, 2013: 176,324

Total manholes as of December 31, 2013: 843

PREVENTIVE MAINTENANCE ACTIVITIES

Sewer Pipe

- Hydro Cleaned (feet): 60,921
 - Periodic Cleaning (feet): 13,150
- Mechanically Rodded (feet): 80,498
 - Periodic Cleaning (feet): 70,223

Manholes

- Inspected: 1,310
- Adjusted: 28

SERVICE REQUESTS

Responded to:

- False Alarms: 16
- Stoppages: 1
- Overflows: 1
- Floodouts: 0
- Roach Complaints: 0
- Misc.: 1
- Others: 2
- Service requests responded to: 22

TELEVISIONING

Feet Televised: 39,466

ROOT CONTROL

Sewer pipe treated for roots (feet): 14,250

CONSTRUCTION

Saddle installation(s): 0

PUMP STATIONS

Total number of pump stations: 3
Total Routine Maintenance/Repair: 245
Total Major Repairs: 6
Total Emergency Response: 3

ANNEXATIONS

Parcel(s) annexed to the District: 2

ACCUMULATIVE CAPITAL OUTLAY PROJECTS

Sewer projects reconstructed/rehabilitated: 0

**SEWER MAINTENANCE PRODUCTIVITY REPORT
COLLECTION SYSTEM - DIVISION LEVEL
FIELD WORK COMPLETED: January 1 to December 31, 2014
CITY OF ROLLING HILLS ESTATES**

Total Pipe Length (feet) as of December 31, 2014: 177,267

Total Manholes as of December 31, 2014: 848

PREVENTIVE MAINTENANCE ACTIVITIES

Sewer Pipe

- Hydro Cleaned (feet): 34,717
 - Periodic Cleaning (feet): 11,300
- Mechanically Rodded (feet): 80,588
 - Periodic Cleaning (feet): 65,337

Manholes

- Inspected: 1,696
- Adjusted: 46

SERVICE REQUESTS

Responded to:

- False Alarms: 10
- Stoppages: 1
- Overflows: 5
- Floodouts: 0
- Roach Complaints: 0
- Misc.: 0
- Others: 1
- Service requests responded to: 18

TELEVISIONING

Feet Televised: 2,174

ROOT CONTROL

Sewer Pipe Treated for Roots (feet): 8,694

CONSTRUCTION

Saddle Installation(s): 1

PUMP STATIONS

Total Number of Pump Stations: 3
Total Routine Maintenance/Repair: 252
Total Major Repairs: 21
Total Emergency Response: 3

ANNEXATIONS

Parcel(s) Annexed to the District: 2

ACCUMULATIVE CAPITAL OUTLAY PROJECTS

Sewer Projects Reconstructed/Rehabilitated: 0

**SEWER MAINTENANCE PRODUCTIVITY REPORT
COLLECTION SYSTEM – DIVISION LEVEL
FIELD WORK COMPLETED: JANUARY 1 TO DECEMBER 31, 2015
CITY OF ROLLING HILLS ESTATES**

Total Pipe Length (feet) as of December 31, 2015: 178,671

Total Manholes as of December 31, 2015: 848

PREVENTIVE MAINTENANCE ACTIVITIES

Sewer Pipe

- Hydro Cleaned (feet): 38,887
 - Periodic Cleaning (feet): 14,950
- Mechanically Rodded (feet): 103,501
 - Periodic Cleaning (feet): 70,941

Manholes

- Inspected: 1696
- Adjusted: 100

SERVICE REQUESTS

Responded to:

- Stoppages: 0
- Overflows: 1
- Flood-outs: 0
- Roach Complaints: 2
- Misc.: 1
- Other: 6
- False Alarms: 8
- Service Requests Responded to: 18

TELEVISIONING

Feet Televised: 229

ROOT CONTROL

Sewer Pipes Treated for Roots (feet): 11,801

CONSTRUCTION

Saddle Installation(s): 0

PUMP STATIONS

Total Number of Pump Stations: 3

Total Routine Maintenance/Repair: 229

Total Major Repairs: 21

Total Emergency Response: 9

ANNEXATIONS

Parcel(s) Annexed to the CSMD: 3

ACCUMULATIVE CAPITAL OUTLAY PROJECTS

Sewer Projects Reconstructed/Rehabilitated: 0

**SEWER MAINTENANCE PRODUCTIVITY REPORT
COLLECTION SYSTEM – DIVISION LEVEL
FIELD WORK COMPLETED: JANUARY 1 TO DECEMBER 31, 2016
CITY OF ROLLING HILLS ESTATES**

Total Pipe Length (feet) as of December 31, 2016: 178,671

Total Manholes as of December 31, 2016: 853

PREVENTIVE MAINTENANCE ACTIVITIES

Sewer Pipe

- Hydro Cleaned (feet): 25,525
 - Periodic Cleaning (feet): 12,550
- Mechanically Rodded (feet): 67,685
 - Periodic Cleaning (feet): 58,618

Manholes

- Inspected: 1,706
- Adjusted: 24

SERVICE REQUESTS

Responded to:

- Stoppages: 4
- Overflows: 4
- Flood-outs: 0
- Roach Complaints: 0
- Misc.: 0
- Other: 1
- False Alarms: 11
- Service Requests Responded to: 20

TELEVISIONING

Feet Televised: 2,963

ROOT CONTROL

Sewer Pipes Treated for Roots (feet): 15,900

CONSTRUCTION

Saddle Installation(s): 0

PUMP STATIONS

Total Number of Pump Stations: 3

Total Routine Maintenance/Repair: 226

Total Major Repairs: 28

Total Emergency Response: 3

ANNEXATIONS

Parcel(s) Annexed to the CSMD: 0

ACCUMULATIVE CAPITAL OUTLAY PROJECTS

Sewer Projects Reconstructed/Rehabilitated: 0

**SEWER MAINTENANCE PRODUCTIVITY REPORT
COLLECTION SYSTEM – DIVISION LEVEL
FIELD WORK COMPLETED: JULY 1 TO DECEMBER 31, 2017
CITY OF ROLLING HILLS ESTATES**

Total Pipe Length (feet) as of December 31, 2017: 178,654

Total Manholes as of December 31, 2017: 853

PREVENTIVE MAINTENANCE ACTIVITIES

Sewer Pipe

- Hydro Cleaned (feet): 25,089
 - Periodic Cleaning (feet): 12,450
- Mechanically Rodded (feet): 77,204
 - Periodic Cleaning (feet): 72,237

Manholes

- Inspected: 1,706
- Adjusted: 23

SERVICE REQUESTS

Responded to:

- Stoppages: 2
- Overflows: 3
- Flood-outs: 0
- Roach Complaints: 0
- Misc.: 0
- Other: 3
- False Alarms: 8
- Service Requests Responded to: 16

TELEVISIONING

Feet Televised: 1,862

ROOT CONTROL

Sewer Pipes Treated for Roots (feet): 19,320

CONSTRUCTION

Saddle Installation(s): 2

PUMP STATIONS

Total Number of Pump Stations: 3

Total Routine: 221

Maintenance/Repair: 22

Total Major Repairs: 1

Total Emergency Response: 0

ANNEXATIONS

Parcel(s) Annexed to the CSMD: 3

ACCUMULATIVE CAPITAL OUTLAY PROJECTS

Sewer Projects Reconstructed/Rehabilitated: 0

**SEWER MAINTENANCE PRODUCTIVITY REPORT
COLLECTION SYSTEM - CITY OF ROLLING HILLS ESTATES**

Period from January 1 to December 31, 2018

Total pipe length (feet) as of December 31, 2018: 185,308

Total manholes as of December 31, 2018: 856

PREVENTIVE MAINTENANCE ACTIVITIES

Sewer Pipe

Hydro Cleaning (feet):	46,439
Periodic Cleaning (feet):	12,750
Mechanically Rodded (feet):	81,402
Periodic Cleaning (feet):	74,433

Manholes

Inspected:	1,712
Adjusted:	13

SERVICE REQUESTS

Responded to:

False Alarms:	10
Stoppages:	2
Overflows:	4
Flood outs:	0
Roach Complaints:	0
Misc.:	0
Other:	
Service requests responded to:	17

TELEVISIONING

Feet Televised: 2,171

ROOT CONTROL

Sewer pipe treated for roots (feet): 0

CONSTRUCTION

Saddles Installed(s): 2

PUMP STATIONS

Total number of pump stations: 3

Total Routine Maintenance/Repair: 175

Total Major Repairs: 18

Total Emergency Response: 5

ANNEXATIONS

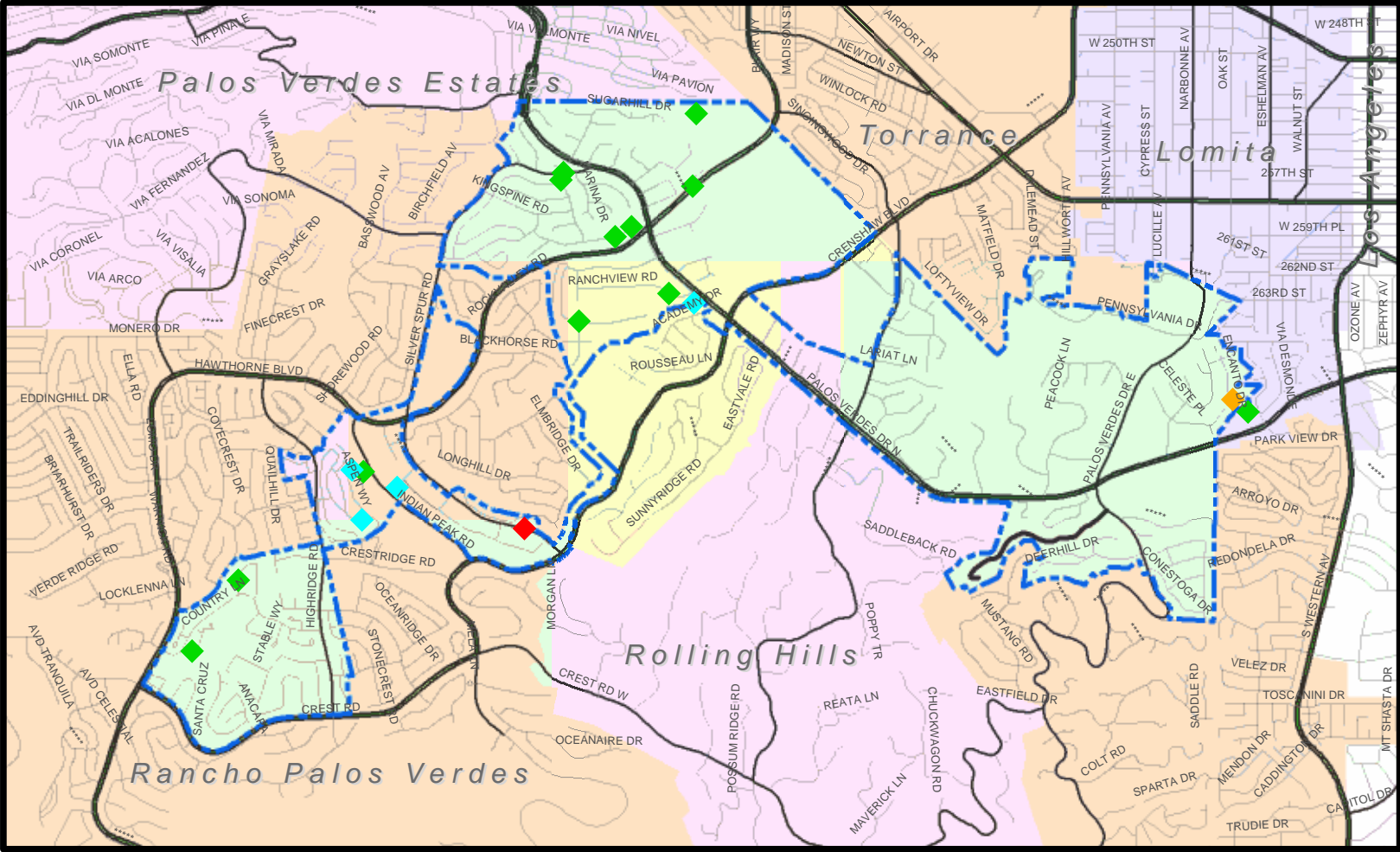
Parcel(s) annexed to the District:

ACCUMULATIVE CAPITAL OUTLAY PROJECTS

Sewer projects reconstructed/rehabilitated:

APPENDIX H
SANITARY SEWER OVERFLOW
LOCATION MAP

City of Rolling Hills Estates Sewer Overflows --- 2013 - 2018

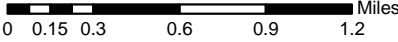


REPORTED SEWER OVERFLOWS

SEE ATTACHMENT 1

Legend

- ◆ Grease
- ◆ Miscellaneous
- ◆ Root
- ◆ Root_Grease



ATTACHMENT --- 1
 REPORT SEWER OVERFLOWS - 2014-2018

ID	DATE_	DESCRIPTION	CAUSE	EST_GAL	DUR_HRS	JUR
1	7/8/2014	26036 Silver Spur Rd/Palos Verdes Dr N	Roots	90	1.5	RHE
2	10/23/2014	25851 Hawthorne Blvd./Colina	Roots	55	1.5	RHE
3	10/25/2014	23 Pear Tree Ln/Country Ln	Heavy Roots & Rags	400	4	RHE
4	1/5/2015	25851 Hawthorne Blvd/Palos Verdes Dr N	Roots	1500	2.5	RHE
5	8/21/2015	25 Oak Treelane/Highridge	Unknown	100	0	RHE
6	1/11/2016	26-F Peninsula Ctr./Indian Peak Rd.	Unknown	1000	5	RHE
7	5/9/2016	26036 Silver Spur Rd/Palos Verdes Dr North	Roots	4500	1.5	RHE
8	5/11/2016	4604 Rockbluff Dr/Hawthorne Blvd	Roots	4000	1.5	RHE
9	10/16/2016	1 Cerrito Pl / Encanto Dr	Heavy Grease & Roots	30	2	RHE
10	11/7/2016	25 Oaktree Ln / Avocado Ln	Heavy Roots	5100	5.5	RHE
11	1/17/2017	Palos Verdes Dr North / Academy Dr	Debirs	250	1	RHE
12	1/20/2017	26036 Silver Spur Rd / Palos Verdes Dr North	Roots	600	2	RHE
13	7/4/2017	19 Ranchview Rd / Palos Verdes Dr North	Roots	25	2.5	RHE
14	1/29/2018	35 Horseshoe Ln / Country Ln	Roots	150	5	RHE
15	7/8/2018	24 Shady Vista Rd/Santa Bella Rd	Heavy roots	500	6.5	RHE
16	8/21/2018	77 Aspen Way/Cypress	Broken Private Lateral	144	<null>	RHE
17	9/19/2018	828 Silver Spur Rd/Beechgate Dr	Grease	50	1.5	RHE
18	10/22/2018	8 Cerrito Pl/Encanto Dr	Roots	150	<null>	RHE
19	11/9/2018	4630 Rockbluff Drive/Hawthorne Blvd	Roots	2600	1	RHE