CITY OF ARCADIA
SEWER SYSTEM MANAGEMENT PLAN

Revised November 2014

P:\Sewer\Sewer System Management Plan (SSMP)\Entire SSMP

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Executive Summary

On May 2, 2006, the State Water Resources Control Board (SWRCB) adopted Order No. 2006-0003, a General Waste Discharge Requirement (WDR) for all publicly owned sanitary sewer collection systems in California with more than one (1) mile of sewer pipe. The goal of Order No. 2006-0003 is to provide a consistent statewide approach for reducing Sanitary Sewer Overflows (SSOs) by requiring that:

- In the event of an SSO, all appropriate steps are taken to control the released volume and prevent untreated wastewater from entering into the storm water conveyance system.

- If an SSO occurs, it must be reported to the SWRCB using an online reporting system developed by the SWRCB.

- All publicly owned collection system agencies with more than one (1) mile of sewer pipe in the State must develop a Sewer System Management Plan (SSMP).

The critical component of Order No. 2006-0003 is the development of a Sewer System Management Plan (SSMP). The SSMP serves as a document to properly manage and operate the sewer system. There are eleven (11) milestones identified in the schedule that relate to the elements required in the WDR. The eleven milestones and the applicable schedule for the RCWD include:

1. SSMP Development Plan and Schedule (November, 2007)

2. Goals and Organization Structure (November, 2007)

3. Legal Authority (May, 2009)

4. Operation and Maintenance Plan (May, 2009)

5. Design and Performance Standards (August, 2009)

6. Overflow Emergency Response Plan (May, 2009)

7. Fats, Oils and Grease Control Plan (May, 2009)

8. System Evaluation and Capacity Assurance Plan (August, 2009)

9. Monitoring, Measurement and Program Modifications (August, 2009)

10. SSMP Program Audits (August, 2009)

11. Communication Program (August, 2009)

12. Final SSMP, incorporating all SSMP elements (August, 2009)

The City integrated many ongoing City activities into one formal document. These are described in the SSMP but are explained in greater detail in a variety of documents which are referenced and can be located in the Public Works Services Department.

– CHAPTER 1 –
GOALS

Chapter 1 of this SSMP addresses the requirements included in Subsection D.13.(i) of the Order. The requirements state:

> ***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.*

Section 1.0: Goals

Providing safe, responsive and reliable sewer service is extremely important for the City of Arcadia. The City has developed the following goals for the operation and maintenance of its sewer system. The goals of the SSMP for the City of Arcadia are:

- Minimize sanitary sewer overflows.
- Prevent public health hazards.
- Educate residents and business owners on proper disposal of fats, oils and grease.
- Protect the large investment in collection systems by maintaining adequate capacities and extending useful life of the pipes.
- Prevent unnecessary damage to public and private property.
- Use funds available for sewer operations in the most efficient manner.
- Convey wastewater to the Los Angeles County Sanitation District trunk sewers with minimum infiltration, inflow and exfiltration.
- Provide adequate capacity to convey peak flows.
- Perform all operations in a safe manner to avoid personal injury and property damage.

The City of Arcadia is dedicated to achieve the nine (9) overall program goals. These goals are consistent with WDR/SSMP provisions that require proper management, operation and maintenance.

– CHAPTER 2 –
ORGANIZATION

Chapter 2 of this SSMP addresses the requirements included in Subsection D.13.(ii) of the Order. The requirements state:

> ***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)).*

Section 2.0: Organizational Structure

The City of Arcadia Public Works Services Department is responsible for the daily management and administration of the City's wastewater collection system.

Authorized Representative

The City of Arcadia is governed by a five member Council. The City Council makes decisions, establishes policies and enacts laws on behalf of constituents in the City.

The City's authorized representative in all wastewater collection system matters is the Public Works Services Director. The Public Works Services Director reports directly to the City Manager. The Public Works Services Director is authorized to certify electronic spill reports submitted to the SWRCB.

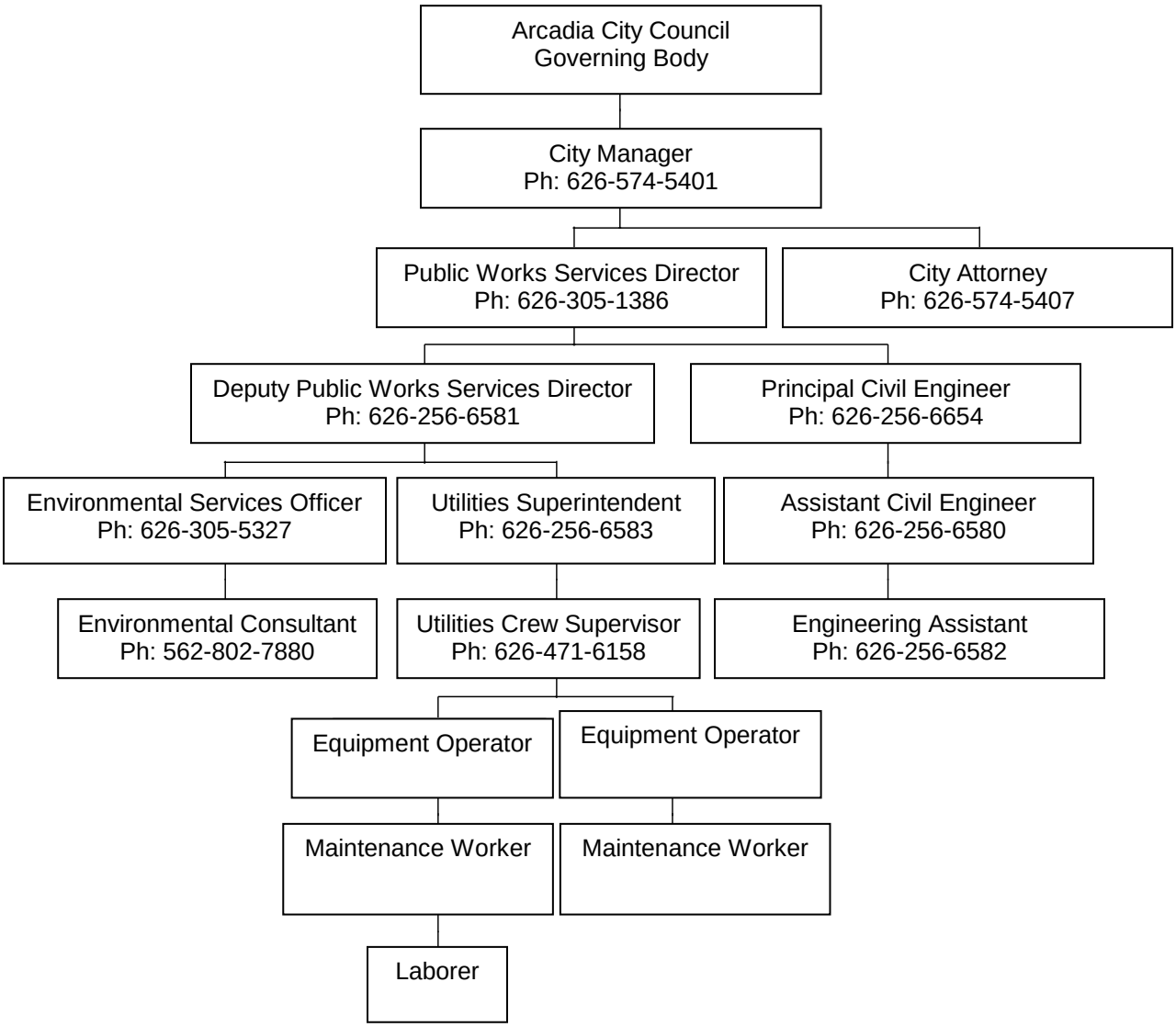
The Deputy Public Works Services Director is authorized to act in the Director's absence and is also authorized to submit and certify electronic spill reports submitted to the SWRCB.

The Principal Civil Engineer, Environmental Services Officer and Utilities Superintendent are authorized to submit SSO reports to the appropriate regulatory agencies.

Names, Phone Numbers and Lines of Authority

Identified below are the names and phone numbers of the management, administrative and maintenance positions responsible for implementing specific measures in the SSMP.

City of Arcadia
Organization Chart



Deputy Public Works Services Director – Works under the broad policy guidance and direction of the Public Works Services Director. Works to improve efficiency and effectiveness of operations. Assists the Public Works Director in development of department plans and programs, including sewer operations and the Capital Improvement Program. Supervises the review of private project development plans for compliance with codes, regulations, and standards, adequacy of applications for permits and compliance with approved plans. Oversees and coordinates sewer maintenance operations.

Principal Civil Engineer – Acts as an Engineering Division manager on public works projects, including sewer projects. Supervises preparation of plans, specifications, and preliminary cost estimates. Coordinates and confers with maintenance department on sanitary sewer system issues. Confers with contractors, consultants, and the public on engineering and construction matters. Prepares reports on sewer and other public works projects.

Utilities Superintendent – Plans, organizes, and supervises the maintenance and repair of City public utilities infrastructure (sewer and water systems). Reviews plans and specifications for sewer and other projects, and makes recommendations regarding maintenance, construction, and operations aspects. Controls budget expenditures within the Utilities Division. Confers with contractors, engineers, and members of the general public on construction and maintenance problems and procedures.

Environmental Services Officer - Reviews practices and procedures for compliance with Federal, State, and local laws and regulations on Wastewater Program. Implements and enforces federally regulated Pretreatment Programs and prepares and submits data and reports to State regulatory agencies. Regulates and administer the Hazardous Substances Management and Household Hazardous Waste Programs, and maintains records, inspections, sampling, and enforcement actions for Industrial User Discharge Permits

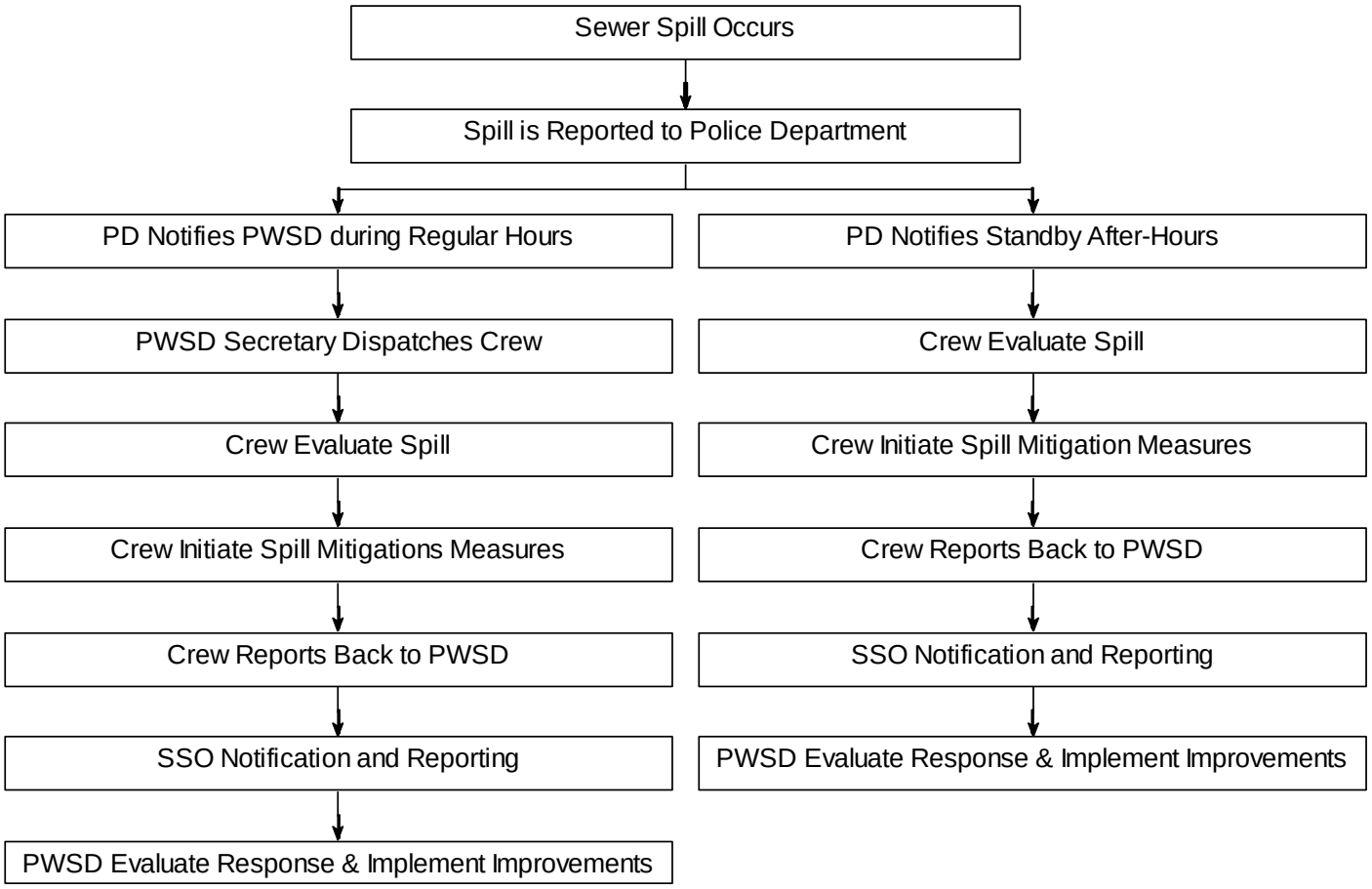
Utilities Crew Supervisor – Supervises sewer maintenance workers. Schedules work assignments. Maintains records of projects assigned and completed, supplies and equipment used, and costs incurred. Investigates sewer-related complaints from the general public. Estimates needed equipment and equipment maintenance. Lays out and schedules work for crew.

Equipment Operator – Supervises maintenance workers and laborers and personally assists in the cleaning and repair of sewer mains and lines and the location and rising of manholes. Trains crew members in specific tasks, as needed, including collection system preventive maintenance and SSO response. Checks work of assigned crew. Operates power equipment including hydraulic cleaning truck and sewer rodder.

Maintenance Worker – Works as a member of a field maintenance crew. Cleans, unplugs, and repairs sewer lines. Locates and raises manholes. Operates power equipment including hydraulic cleaning truck and sewer rodder.

Chain of Communication for Reporting SSOs

Identified below is the chain of communication where reports of potential SSOs come into and are processed by the City of Arcadia.



SSO Response – Chain of Communications

Title	Name	Phone Number
Police Dispatch Center		(626) 574-5121
Public Works Service Center		(626) 256-6650
Public Works Services Director	Tom Tait	(626) 305-1386
Deputy Public Works Services Director	Claudine Meeker	(626) 256-6581
Principal Civil Engineer	Ken Herman	(626) 256-6654
Environmental Services Officer	Vanessa Hevener	(626) 305-5327
Utilities Superintendent	Craig Clark	(626) 256-6583
Utilities Crew Supervisor	Kevin Tobin	(626) 471-6158
Sewer On Call Personnel	Varies	

– CHAPTER 3 –
LEGAL AUTHORITY

Chapter 3 of this SSMP addresses the requirements included in Subsection D.13.(iii) of the Order. The requirement states:

> ***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, storm water, 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.*

Section 3.0: Legal Authority

The City of Arcadia is committed to complying with the requirements of Order No. 2006-003 which establishes General Waste Discharge Requirements (WDRs) for all publicly owned or operated sanitary sewer systems within the State of California. The City of Arcadia has organized much of their legal authority into the City of Arcadia Municipal Code in Chapter 4 Sewers and Chapter 10 Industrial Waste Control (See Attachment 3.1). The City of Arcadia reports the "Legal Authority" as follows:

SSMP Required Function	City of Arcadia Sewer System Legal Authority
Legal Authority to prevent illicit discharges into its sanitary sewer system (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc.).	**Chapter 4. (Sanitary Sewer Ordinance) of the Municipal Code; Part 7- Regulations,** Section 7472.; Section 7472.10.; Section 7472.11.;Section 7472.12 and **Chapter 10. (Industrial Waste Control) of the Municipal Code; Part 2- Industrial Discharge Prohibitions (attached)** Section 7020.
Legal Authority to require that sewers and connections be properly designed and constructed.	**Chapter 4 (Sanitary Sewer Ordinance) of the Municipal Code; Part 3- Permits and Plans**, Section 7435.; Section 7441;. **Chapter 4 Part 5- inspections** Section 7450.2.; Section 7452.; **Part 6 Design Standards of Chapter 4** Sections 7460.-7467. and all sections of **Part 8 House and Industrial Connection Sewer Construction of Chapter 4**
Legal Authority to ensure access for maintenance, inspection, or repairs for portion of the lateral owned or maintained by the Sanitation Districts.	**Chapter 4 (Sanitary Sewer Ordinance) of the Municipal Code; Part 2- Specific Applications,** Section 7424. and **Chapter 4 Part 5- Inspections** Section 7455.
Legal Authority to limit the discharge of fats, oils, and grease and other debris that may cause blockages.	**Chapter 4 (Sanitary Sewer Ordinance) of the Municipal Code; Part 5- Inspections** Section 7453.2. **Chapter 4; Part 9- Interceptors** Section 7490.; Section 7492.; Section 7492.1 and 7494.1.
Legal Authority to enforce any violation of its sewer ordinances.	**Chapter 4 (Sanitary Sewer Ordinance) of the Municipal Code; Part 7- Regulations** Section 7470 **Chapter 10 (Industrial Waste Control) Part 4 Enforcement** Section 7041**.** Section 7042. and Section 7043.

– CHAPTER 4 -
OPERATION AND MAINTENANCE PROGRAM

Chapter 4 of this SSMP addresses the requirements included in Subsection D.13.(iv) of the Order. The requirements state:

> ***Operation and Maintenance Program:*** *The SSMP must include the appropriate elements applicable to the Enrollee's system listed below:*
> *(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 storm water 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.*

Section 4.0: Operations and Maintenance

4.1 Maps

The City of Arcadia's Public Works Services Department (PWSD) is responsible for maintaining 135 miles of sanitary sewer which includes 3,000 man holes. Knowledge of the location of all waste water collection system facilities is essential to effective management of the sewer system. The City of Arcadia's Principal Engineer is responsible for maintaining up-to-date maps of its wastewater collection system facilities. Maps of the waste water collection system show all gravity line segments, manholes and storm water direction of flow. Mapping the entire system is necessary to assure that in the event of a sewage spill, staff will be able to properly divert and keep sewage from entering the storm drain and endangering the waters of the State of California A copy of the City of Arcadia Atlas of Sanitary Sewers/Storm drain system is located in the Engineering Section, the Utilities Crew Supervisor's office and in the Utilities Superintendent's office in the Public Works Department. .

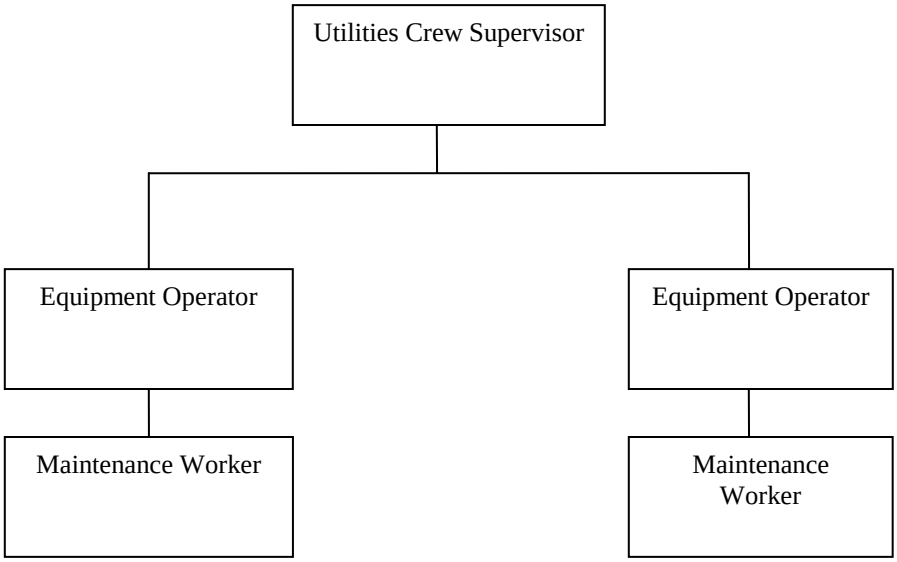
The City of Arcadia utilizes a color coded map in order to effectively maintain and operate its sewer system. A map of the entire City is color coded by the Utilities Crew Supervisor with twelve different colors to indicate which sewer lines in the City will be cleaned each month (See Attachment 4.1, Colored Coded Map). The map is updated and is sent to the Engineering Department for record keeping. The map serves as a method to ensure that all sewer lines in the sewer system are cleaned on a regular basis and also indicates which areas need to be cleaned more frequently (a 30, 90, or 180 day basis). All maps are available on map guide and can be accessed by visiting the Public Works Services Department.

4.2 Preventative Operation and Maintenance

The City of Arcadia's Public Works Services Department maintains 135 miles of gravity sewer system, including manhole structures and their connecting pipeline segments. On October 19, 2004, the City began to operate and maintain Wilderness Park Pumping Facility and 1430 Linear Feet (LF) of pressure piping system. PWSD is responsible for maintaining all aspects of the sewer system except for house connection from private properties. PWSD does not own or maintain sewer laterals from private properties that are connected to the sewer main (See Attachment 4.2, Chapter 4 Section 7426. of the Municipal Code). Therefore, these portions are not a part of the operation and maintenance plan. The City of Arcadia does however educate residents about proper disposal of fats, oils and grease to help ensure that all sewer lines are kept in good condition.

Currently there are two crews in the Wastewater Collection System, consisting of one (1), two-man crew and one (1), three-man crew. They are responsible for following the color coded map schedule and maintaining the sewer lines. Maps are placed in each truck and allow the crews to keep track of what was cleaned and which areas need to be cleaned. The Utilities Superintendent documents what was cleaned daily and provides assistance to the maintenance workers and equipment operators to assure that the time schedule is being followed.

Sewer System Maintenance Crew
(See page 1 for sewer maintenance crew work description)



The City of Arcadia conducts a number of Operation and Maintenance Procedures to maintain the sewer line. The most common maintenance procedures are hand rodding/line cleaning and high velocity hydro cleaning. Hand rodding/ line cleaning is performed by feeding a snake into a manhole which goes through the sewer line to the upstream manhole segment by segment. This is performed on easement lines. High Velocity Hydro cleaning is performed by use of a combination jet/vacuum unit. The combination unit is set up at the downstream manhole. The equipment operator from the sewer crew will send the jet nozzle through the sewer line to the upstream manhole and cleans while pulling back in the downstream direction.

Although there is a standard maintenance procedure to ensure consistency of line cleaning throughout the City, if PWSD receives a phone call stating that there may be a possible problem with a sewer line, a work order is entered in the PWSD's computerized maintenance management system (CMMS). This computerized maintenance management system is available for review and audit. Hardcopy data files and paper records not recorded in the CMMS are also available for review in the Public Works Services Department.

4.3 Sewer System Cleaning Guidelines

City staff has established an18-month rotation schedule for preventative maintenance cleaning on residential collection lines including siphons. The City uses a combination of jetter high velocity hydro cleaning trucks to clean the sewer line. When cleaning the lines, the sewer crew goes through segment by segment, manhole to manhole. Higher frequency preventative maintenance areas are placed on a high priority ("Hot-Spot") maintenance list. These areas are placed on a 30, 90 or 180-day maintenance cleaning schedule (See Attachment 4.3- 30, 90 and 180 day priority maintenance list). These line segments are placed on a high priority maintenance list due to history of blockages, sewer spill overflows or Closed Circuit video inspection analysis (CCTV). Priority

areas are cleaned monthly, quarterly, or in six month periods as necessary, to prevent blockages. Inverted siphons of all diameters are typically treated as priority maintenance areas and receive higher frequency care due to grease build up and/or debris settling. Those medium and large diameter sewers that have not presented any problems receive annual inspection and cleaning.

The City of Arcadia staff has developed, and is continuing to develop, specific maintenance tasks for the care of each portion of the sewer line throughout its life cycle. These tasks include:

- Sewer inspection
- Condition assessment
- Sewer cleaning
- Chemical dosing for odor and corrosion control if needed

Although the pumping/lift station at Wilderness Park is not part of the sewer system, it is regularly maintained and monitored to ensure that all of the parts are properly working. Once work is completed on the pumping/lift station, it is documented in the CMMS.

Arcadia School District Contract

The City of Arcadia holds a rightful easement and access to the sewer line under the Arcadia School District's real property. The City is responsible for maintaining this section of the Sewer Line and provides annual cleaning on the pipe each July. Since August 2009, the City has been responsible for video inspecting this section of the Sewer Line, which occurs every two years. (See Attachment 4.4).

4.4 Vehicles and Equipment

PWSD utilizes vehicles and sewer equipment to perform the day to day operations and maintenance activities of the sewer system. In addition to the equipment used for operation and maintenance tasks, each facility maintains equipment for deployment during emergency situations. The vehicles used for day to day operations of the sewer system are stored in the Public Works Services Department Yard and are equipped with the appropriate and necessary supplies for maintenance procedures. The Public Works Services Department has a warehouse that maintains an extensive inventory of spare parts and materials commonly used in sewer maintenance and a stock of regularly used parts and supplies for equipment and vehicles. A list of vehicle and equipment parts is contained in Attachment 4.5.

4.5 Rehabilitation and Replacement Plan

The City of Arcadia has developed a rehabilitation and replacement plan which prioritizes pipeline deficiencies that might result in sewer blockage, sewer spill overflows, or capacity issues. By implementing analytical maintenance tasks, PWSD was able to plan and develop replacement and rehabilitation priorities for segments of the sewer system. Analytical Maintenance tasks are inspection and condition assessment type tasks which are executed to determine if planned preventive maintenance tasks should be performed as scheduled or rescheduled to a future date if preventive maintenance, rehab or replacement is not needed. The analytical tasks include:

- Closed Circuit TV (CCTV) video inspection of piping
- Visual inspection of the manhole structures and their flow channels

- Trending of flow monitoring data
- Ground surface inspection of rights of way and easements over the gravity sewers.

CCTV

The City of Arcadia contracts with Houston and Harris PCS, Inc. to operate CCTV video inspections in the sewer system. CCTV is the most common method of retrieving information on areas in the sewer system which may require maintenance. Through an analysis of CCTV inspections, the Department was able to determine grease and root priority spots. The CCTV Inspection of Sanitary Sewers Report is available in the Engineering Section of the Public Works Services Department. The CCTV Report was analyzed to differentiate between pipelines that may require rehabilitation and those that do not. As deficiencies are identified through the CCTV video taping, the respective conditions are used to define and prioritize necessary improvement and rehabilitation projects for additions in the Capital Improvement Plan (CIP). The analysis of the sewer system summarizes CCTV inspections and focuses on analytically rehabilitating the pipelines in need of repair and maintenance depending on the types of defects and how extensive the defects are. The following are the type of defects that are placed on a list and later prioritized:

- Grease
- Roots
- Structural Defects
- Lateral defects (break in and intruding break in)
- Service Connections (defective service connections and service connection with roots)
- Additional Defects (debris, corrosion, erosion, concrete in invert of manhole)

To determine the condition of the pipe system and develop a prioritized list of rehabilitation projects, a scoring system was developed Total segment point scores were calculated from the assigned rating system found in the CCTV inspection reports provided by the contractor. The total segment point score is the sum of ratings for each pipeline defects multiplied by the number of times a defect was found in a pipe segment. The total segment point was created to give the highest priority for the collection system rehabilitation to pipe segments with moderate to severe structural defects.

4.6 Contingency Equipment and Replacement Inventories

To develop a priority list of sewer defects that can be repaired by the City, sewer defects category ranges were determined. These category ranges were placed on a high, medium, or low projects range. The total point score for pipeline segments determine the category. The defect point ranges summarizes the sewer defect category which would determine which segment of the sewer line would be included as first priority in the Capital Improvement Plan.

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Overall Rating Category of the City's Collection System

		Category		
Defects	**Defect Point Ranges**	**Low**	**Medium**	**High**
Roots	130 - 9,560	130 - 1,500	1,501 - 3,000	3,001 - 9,560
Grease	250 - 1,050	250 - 260	261 - 400	401 - 1,050
Structural	175 - 13,600	175 - 3,000	3,001 - 6,000	6,001 - 13,600
Laterals	160 - 1,920	160 - 320	321 - 600	601 - 1,920
Service Connections	70 - 2,580	70 - 350	351 - 750	751 - 2,580
Additional Defects	130 - 1,240	130 - 310	311 - 750	751 - 1,240

Categories with the high scores are in need of immediate attention within the next two years and are placed in the CIP. Low and medium category sewers are in fair condition and will be included in future CIP list. Further information on the sewer system can be found in the Sewer Master Plan located in the Public Works Services Department in the Principal Engineer's office.

4.7 Training

The City of Arcadia provides technical and safety training on a regular basis for its sewer system maintenance staff. Management ensures that all who work within the sewer system are properly trained. The sewer crew attends seminars through the California Water Environmental Association (CWEA). The Utilities Crew Supervisor and Equipment Operator attend training periodically and have obtained a Collection System Maintenance Two (2) Certificate. Two Equipment Operators have obtained a Collection System Maintenance One (1) Certificate. The Utilities Superintendent and the Utilities Crew Supervisor hold meetings on a regular basis to ensure that the crew follows proper procedures when maintaining the sewer system or dealing with a sewer spill overflow.

All field crews in the PWSD are also trained annually and reminded every week of BMPs that must be implemented in day to day work in order to protect storm drains and assure that nothing harmful is discharged into the waters of the State of California. The announcement below is read to staff every week during safety meetings. Staff that may have questions or feels that someone may be violating the storm water program requirements is encouraged to contact the Public Works Services Department for more information.

> *"As part of our National Pollutant Discharge Elimination System (NPDES) Permit, I would like to remind everyone that City staff must comply with storm water program requirements. It is imperative that we prevent illegal discharges from entering the storm drains. We must implement best management practices (BMPs) for our day to day activities. Please make sure to make good efforts to keep debris or litter from entering the storm drains. Hosing down streets and sidewalks and overflowing trash bins is illegal. Fines for not properly implementing programs can be $10,000 per day. If you have any questions regarding best management practices or if you see any activity which you feel may violate our NPDES Permit, please contact me or Vanessa Hevener as soon as possible."*

– CHAPTER 5 –
DESIGN AND PERFORMANCE PROVISIONS

Chapter 5 of this SSMP addresses the requirements included in Subsection D.13.(v) of the Order. The requirements state:

> ***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.*

Section 5.0: Design and Performance Provisions

5.1 Design and Construction Standards and Specifications

The City of Arcadia utilizes standards and guidelines for the design and construction of the sewer system to ensure that wastewater collection system facilities are properly designed and constructed. City staff utilizes standards and guidelines to govern the rehab and repair of existing wastewater collection system facilities as well.

In order to ensure that proper standards and guidelines are being followed when designing and constructing the sewer system, the City of Arcadia utilizes standards from the Standard Plans for Public Works Construction, commonly known as the "Green Book", 2012 edition as the standards and specifications for public works construction. The Green Book is located in the Engineering Section in the Public Works Services Department. To further guarantee that developers and contractors are aware of the wastewater collection facilities and how they should be properly designed and constructed, all sewer construction plans go through a review procedure. Design and construction standards and specifications can also be found in the City of Arcadia's Municipal Code (See Attachment 5.1, Design Standards Municipal Code Article VII Chapter 4 Part 6). The Municipal code requires that all main line sewers and new house connections conform to requirements established by City staff, and prohibits a person from performing any work associated with the wastewater collection facilities unless a permit is obtained from the City.

The City of Arcadia recognizes the importance of establishing standards and guidelines for the design and construction of the sewer system. Although the Green Book 2012 edition and the Municipal Code demonstrate clear specifications and guidelines, the following are the design standards that apply for the City of Arcadia sewer system:

Sewer System Design Standards

General

1. Design shall be in accordance with the City of Arcadia "Sewer Master Plan", good engineering practices and the Sewer Design and Performance Standards Manual.

2. City of Arcadia Standard Plans shall be used unless there is a special case where there are no standards available. If another agency has an applicable standard drawing, then its use will be acceptable only with prior approval of the City Engineer. Where no drawing is available, a detail on the plans or in the specification will be provided by the Design Engineer.

3. Separate sewer plans shall be prepared at 1"- 20' scale minimum.
    a. Exception- Lateral construction on existing sewer main may be shown on street plans.

Sewer Pipe

1. All pipes, including laterals, in Public Right of Ways shall be vitrified clay pipe (VCP), extra strength; except where parallel and crossing water mains require use of ductile iron pipe (DIP). Flexible compression joints shall be used. The Standard Plan No. 200 is found in the Green Book, located in the Engineering Section in the Public Works Services Department.

2. Sewer mains shall be 8" diameter minimum.

3. Sewer laterals shall be 6" diameter minimum, unless the City Engineer gives prior approval for deviation.

Horizontal Alignment

1. Curvilinear alignment is prohibited.

2. Provide a minimum clearance from any existing or proposed water line, see Standard Plan No. 200 in the Green Book.

3. Sewer laterals shall not enter at manholes.

4. Avoid placing mains in wheel line of traffic lanes.

Vertical Alignment

1. Curvilinear alignments are prohibited.
2. Minimum slope design:
   Gravity sewer shall be designed to provide mean velocities, when flowing half full, of not

less than 2.0 feet per second, based on Manning's formula using an "n" value of 0.013. The following are minimum slopes that should be provided:

Pipe size (inches)	Minimum Slope (feet per 100 feet)
8"	0.40
10"	0.32
12"	0.30

3. Minimum drop at manhole shall be 0.1 feet. Use street grade if it is greater.
4. Minimum depth of main lines shall be 6 (six) feet from finish surface.

5. Minimum grade of sewer laterals shall be 2%.

6. Minimum depth of sewer lateral at the right-of-way shall be 4 (four) feet from top of curb.

7. Sewer laterals shall be placed in accordance with Standard Plan

Lateral Connections to Mains

1. New construction with wyes.

2. Replacement with wyes.

3. Tapping with wye saddles per standard plan No.223-2. This type of connection may only be used by special permission from the Director of Maintenance Services Department.

Manholes

1. Maximum spacing shall be 350 feet.

2. Required at terminal ends (clean-outs are not allowed).

3. Required for change in direction or slope.

4. Required at junctions of main sewers.

5. Required when changing pipe size.

6. Drop manholes will be allowed in special conditions per Standard Plan No. 200-2., and requires prior approval by the Public Works Services Director or his/her designee.

Sewer Siphons

1. Are allowed with prior approval of the City Engineer.

2. Shall use double 8" barrels minimum. Each barrel to be equal to design peak flow.

3. Desirable velocity = 3.0 feet per second.

4. Manholes are required at each end.

5. Provide, where possible, an air vent between the manholes.

Design Depth of Flow

1. Design depth shall be 50% for a through 12 inch diameter pipes; 75% for 15 inch and above diameter pipes

2. Shall be designed for peak flow.

3. Use 2.0 feet per second minimum velocity and 10.0 feet per second maximum velocity.

Trench

1. Trenching, backfill and bedding requirements shall be per Standard Plan No. 301.

Inspection

1. In addition to Standard Specifications, all new sewer pipes shall be air tested, balled and video taped. Manholes and laterals shall be referenced on the video tape.

Laterals

1. House laterals will be required for each individual lot or parcel in development. Connection of two or more lots or parcels to one lateral will not be permitted.

5.2 Inspection and Testing Procedures and Standards

The City of Arcadia has established and adopted procedures for the inspection of new sewer system line construction, as well as facility repair and rehabilitation. These projects include construction of new sewer lines and repair and rehabilitation of existing sewer lines. The City of Arcadia also utilizes the Green Book, 2012 edition to set the standard specifications for repair and rehabilitation of existing sewer lines. All new, rehabilitated and repaired sewer assets require inspection involving pressure testing and/or post construction closed circuit television inspection overseen by a City Inspector prior to accepting work.

– CHAPTER 6 –
SANITARY SEWER OVERFLOW RESPONSE PLAN

Chapter 6 of this SSMP addresses the requirements included in Subsection D.13.(vi) of the Order. The requirements state:

> ***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 the 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.*

Section 6.0: Sanitary Sewer Overflow Response Plan

6.1 Notification Procedures

The Public Works Services Department is responsible for the maintenance of all collection pipelines in the sanitary sewer collection system. The Department is also responsible for the construction/reconstruction of sewer lines, prevention of sewer system overflows and maintenance of manholes and sewer siphons. The purpose of the system is to convey wastewater to the Los Angeles County Sanitation Districts Sewer Trunk lines for transmission and treatment. Failure at any point within the collection system can cause spillage of raw sewage onto private or public property, increasing the risk of a possible public health hazard and environmental contamination.

The Sewage Spill Response Plan describes the appropriate steps the Enrollee is required to follow to report SSOs. The Enrollee is to report SSOs greater than or equal to 1,000 gallons that reach surface water to the California Office of Emergency Services at (800) 852-7550 not later than two (2) hours after the Enrollee has knowledge of the discharge. The Enrollee is to submit an online report for any discharge that reaches surface water and/or for a discharge greater than 1,000 gallons that

does not reach surface water on the California Integrated Water Quality System (CIWQS) Online SSO Database at https://ciwqs.waterboards.ca.gov/ within three (3) business days of the Enrollee becoming aware of the SSO. The enrollee is to also submit an online report for any other discharges to the CIWQS Online SSO Database within thirty (30) calendar days from which the SSO occurs. (See Attachment 6.1, Sewage Spill Response Plan for more information)

RESPONDING - STAFF RESPONSIBILITIES

The first crew responding to a sewer backup has the immediate responsibility to protect people, property, and the environment from the effects of a sewage spill overflow. To meet these objectives in a rapid, effective and organized manner, staff will respond and fulfill the duties in the following categories as directed by this Plan:

CONTAIN the spilling sewage from entering waterways

- Capture the sewage where it can be recovered and returned to the sewer
- Contain sewage in advantageous locations (i.e. flood control facilities, Construction excavations, vacant lots, etc.)
- Containment materials include sand, sand bags, poly sheeting, socks, etc.

CONTROL the spill overflow and bypass area of failure

- Bypass the obstructed line by pumping the spillage into another non-restricted line or vacuum with sewer vactor vehicle

CLEANUP the affected areas to ensure public health

- Remove all visible debris
- Wash down and contain run-off, being careful not to wash sewage into storm drain system
- Determine whether to disinfect or not to disinfect
    - Consider requirements of other agencies
    - Consider beneficial use of receiving waters
    - Consider the uses and ownership of affected property
- Clean all hard/soft surfaces

TRAINING PLAN

Training is the key to the success of this Plan. Employees will participate in an orientation exercise every six months and one tabletop/functional full-scale exercise shall be conducted annually.

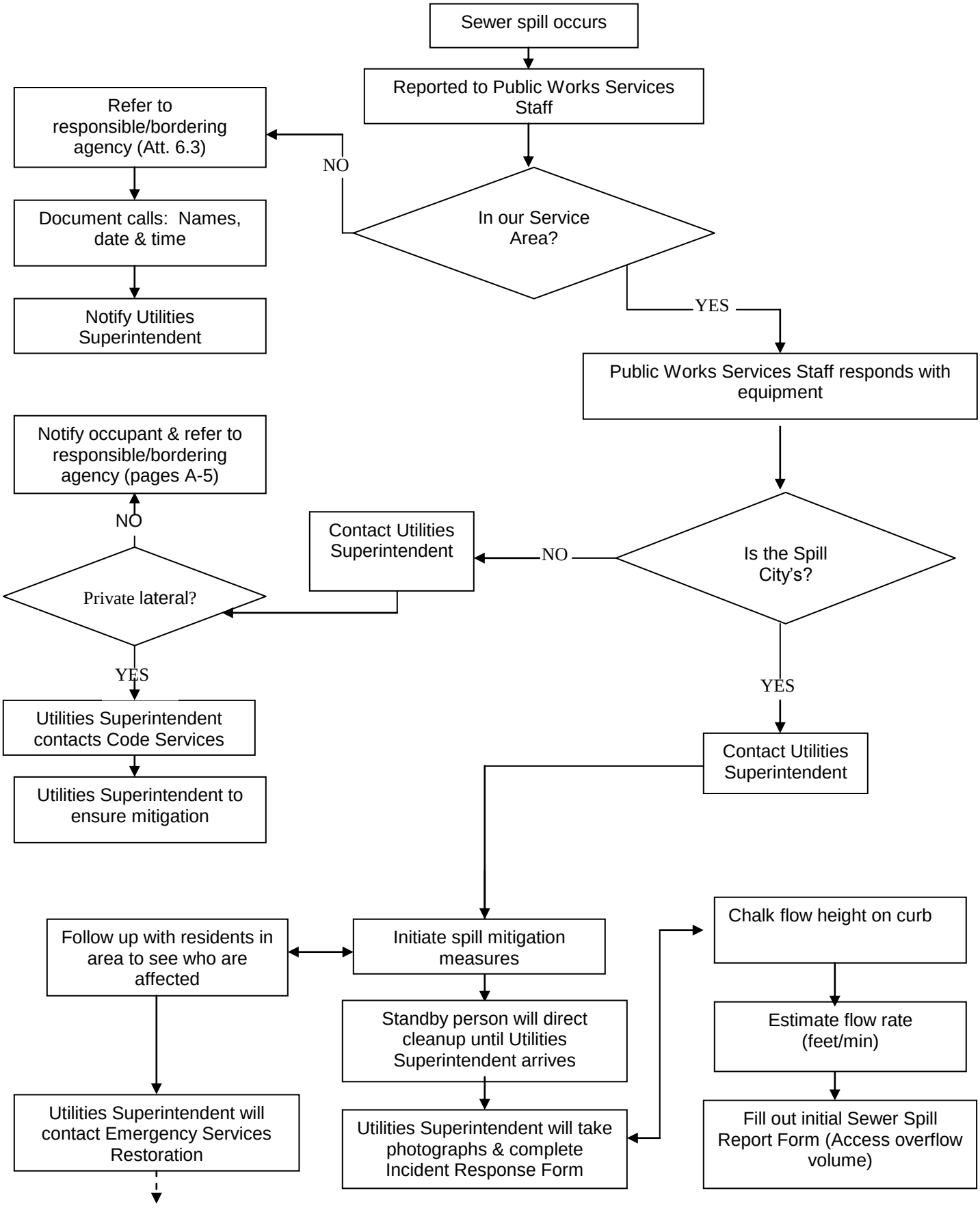
ORIENTATION EXERCISE - This exercise will consist of a lecture with handouts and overheads covering all aspects of the Sewage Spill Response Plan. Each employee will learn individual duties, responsibilities and learn how to work together as a team.

TABLETOP EXERCISE - In this exercise, equipment or deployment of resources will not be used. All activities will be simulated. Employees will learn through discussion and the use of a facilitator. The exercise will focus on the events leading to a potentially large spill and how to mitigate the effects.

FUNCTIONAL FULL SCALE EXERCISE - This exercise will simulate a large-scale spill where employees will respond to a mock spill. Equipment will be deployed including sewer trucks, pumps, and containment equipment. Backup resources will be controlled and included in this exercise. A confined space entry exercise **will not be conducted (no entry into manhole)**. Following the exercise, a critique will be conducted in order to improve this Plan.

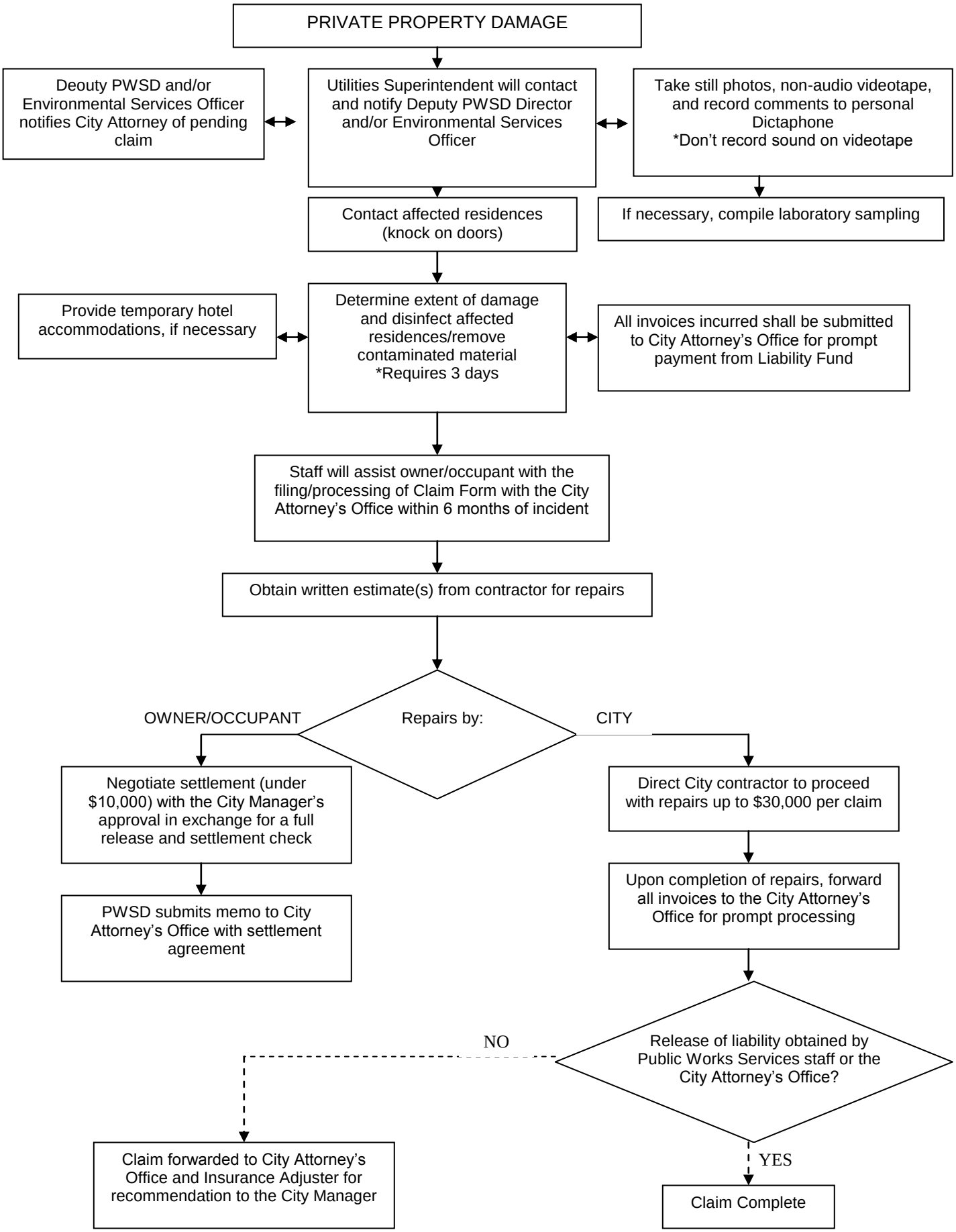
THE FOLLOWING CHAIN OF COMMAND DESCRIBES THE REQUIRED RESPONSE PLAN FOR SSOS THAT REACH PRIVATE AND/OR PUBLIC PROPERTY.

Sewer Spill Response Plan Flow Chart



NOTE: If Private Property Damage, then continue on page 23

Sewer Spill Response Plan Flow Chart Cont.



SPILL RESPONSE PLAN

1. Contain the spill overflow immediately. Supplies for blocking storm drain structures and berm construction materials are available in the sewer emergency trailer. Materials are also available in the sewer crew chief's truck. Pay special attention to blocking storm drain inlets of any kind. Setup traffic control per the Watch Manual or CALTRANS Manual. Should you need traffic assistance, contact Police Dispatch at (626) 574-5121.

2. Capture the overflow, clear the restriction with the sewer vector truck and ensure that downstream manholes are clear and flowing.

   A. If necessary, berm flow and start pumping into the closest clear and flowing manhole.

   B. The Utilities Superintendent will contact the Principal Civil Engineer and/or the Environmental Services Officer. If they cannot be reached, the Utilities Superintendent will contact the Deputy Public Works Services Department Director.
      - If spill enters Santa Anita Wash drainage system refer to detailed map on page 38.
      - If spill enters Arcadia Wash drainage system refer to detailed map on page 39.
      - If spill enters Baldwin Avenue storm drain refer to detailed map on page 40. For this location a sewer vacuum unit is needed because there is not an adjacent sewer manhole to pump into.

      ***If necessary, the Utilities Superintendent will call Mutual Aide/Emergency Contacts (See Attachment 6.2).**

   C. Evaluate sewer system overflow rate.
      The Principal Civil Engineer or a Public Works Services Department Engineer will evaluate the overflow rate.
      1. Calculating spills (See Attachment 6.3)
      2. Measuring gauge method (See Attachment 6.4)
         a. If there is a spill, contact the LA County Department of Public Health Services at (626) 430-5360 (after hours (213) 974-1234), the Regional Water Quality Control Board at (213) 576-6657 (afterhours leave message (213) 305-2284) and the Office of Emergency Services at (800) 852-7550.
         b. Report spill on the CIWQS website at https://ciwqs.waterboards.ca.gov/
         c. The Utilities Superintendent will call the Streets Superintendent and request assistance and call-out, if additional personnel are needed for assistance with containment, pumping, and traffic control.
         d. The Utilities Superintendent may contact the Street Maintenance Crew to provide equipment repair support. If needed, the Maintenance crew will report to the garage, pickup the service truck, and report immediately to the Utilities Superintendent for further assignments.
         e. If spill overflow location calls for it, the Utilities Superintendent will contact the Public Works Services Director to arrange for a partial activation of the Emergency Operation Center (EOC).

3. The Utilities Superintendent will take photographs of any spill/overflow or flooded areas and include them in the Confidential Incident Report (See pgs. 31-37). If the spill has caused damage to private property then contact the Deputy PWSD and/or the Environmental Services Officer. Before taking pictures on private property, **REQUEST PERMISSION OF RESIDENT.**

Confine pictures to affected area only and all photographs must be provided to the Environmental Services Officer, Deputy PWSD and Public Works Services Director.

4. Determine cause of spill (i.e. grease or other obstructions). Describe what caused the overflow and what actions were taken to correct the situation. This information is required for the Department Incident Report and Sewer Spill Report.

5. Cleanup spill area and pickup containment material. Leave the area as clean as possible picking up rags, papers, etc. Emphasis should be placed on removing all materials that are on or around the contaminated area. **BEFORE PRESSURE WASHING CONTAMINATED AREA, ALL CONTAMINATED MATERIALS AND CONTAMINATED SOIL MUST BE REMOVED AND CATCH BASINS MUST BE BLOCKED. VACUM MUST BE READY TO PICK UP WATER FROM PRESSURE WASHING.** No water, sewage or containment materials are to be washed into the storm drain system.

Sewer Spill Report Form

SSO LOCATION		
Address:		
Cross Street:		
SSO OCCURRING TIME		
Date *Originally* Reported:	Time Reported:	Pictures Taken: Yes No (circle one)
SSO End Date:	SSO End Time:	SSO Duration:
Reported by:	Phone #:	

SSO DESCRIPTION

SSO Source:

□ Manhole #: _____ □ Pump Station

□ Pipe □ Other (please specify): _____

□ Cleanout

Final Spill Destination:

□ Street/Curb & Gutter □ Building Structure/Fixture

□ Storm Drain □ Yard/Land

Did spill reach to a drainage channel?

□ Yes □ No Name of channel:_____

Est. Volume Spilled (gallon):	Est. Volume Recovered/Contained (gallon):	Volume Discharge to Channel (gallon):

Calculation Methodology:

□ *Reference Sheet* for Estimating Sewer Spill from Overflowing Sewer Manholes (see reverse page)

□ *Access Overflow Volume* - Determine the magnitude of the spill by estimating the gallons per minute or by the accumulation of spillage or by measurement. *Remember, all spills must be reported to all listed on the Introduction page.* (page 1)

D ____Depth of flow at gutter in inches **V** ____ Velocity of flow in feet/min.

A _____Estimated time flow started **B** ____ Flow ended

CAUSE OF SSO

□ Blockage

□ Roots □ Grease □ Debris □ Vandalism

□ Other_____

□ Infrastructure Failure

□ Breakage of system □ Damage to system

□ Pump station failure □ Other _____

□ Electrical Power Failure

□ Flow Capacity Deficiency

□ Cause Unknown

INCIDENT RESPONSE

Reviewed by: Title: Date:

PRIVATE PROPERTY SPILL RESPONSE PLAN

***See page 4 for Flow Chart Diagram**

1. The Utilities Superintendent will contact and notify the Public Works Services Director, the Deputy PWSD and Environmental Services Officer to personally contact affected residences.

2. The Utilities Superintendent will take photographs of any flood/spill and attach them to the Confidential Incident Report (see pages 31-37). The Utilities Superintendent will give a copy of the report and photographs to the Deputy PWSD or Public Works Services Director. Before taking pictures on private property, **REQUEST PERMISSION OF RESIDENT.** Confine pictures to affected area only.

3. Determine extent of damage. Describe what caused the overflow and what actions were taken to correct the situation. This information is required for the Confidential Incident Report (page 31-37) and the Sewer Spill Report (page 26).

4. Cleanup spill area and pickup containment material. Leave the area as clean as possible picking up rags, papers, etc. Emphasis should be placed on removing all materials that are on or around the contaminated area. Material removal shall be performed by one of the environmental response companies listed in Attachment 6.5.

5. Disinfect affected residences and remove all contaminated waste material.

6. Contact contractor for written estimate(s) of the damage to restore affected area(s). All invoices incurred from the spill shall be submitted to the City Attorney's Office for prompt payment from the Liability Fund.

7. Staff will assist owner/occupant with the processing and filling of the City's claim form with the City Attorney's Office within six (6) months of the date of the incident.

    A. If necessary, the Deputy PWSD and/or Environmental Services Officer will arrange living accommodations for affected residents or Public Works Services crews.

    B. If accommodations are necessary, the Deputy PWSD and/or Environmental Services Officer will contact a hotel listed on page 30.

8. If City is performing the sewer spill repairs:

    A. Contact the City's contractor to proceed with repairs up to $30,000. The Deputy PWSD or designee will complete the Sewer Spill Report form on page 26, the Confidential Incident Report on pages 31 through 37 and forward to the City Attorney's Office.
        1. If liability is released, the Claim is complete and no further action is necessary.
        2. If liability is **NOT** released, the Deputy PWSD or designee will prepare a report and recommendation to the City Attorney's Office and Insurance Adjuster. The City Attorney's Office will then forward all recommendations to the City Managers Office.

9. If owner/occupant is performing sewer spill repairs:

   A. A settlement will be negotiated by the City Attorney's Office with the owner/occupant in exchange for a full release and settlement check.

   B. The Deputy PWSD or designee will complete the Sewer Spill Report form (page 26), the Confidential Incident Report (pages 31 through 37) and prepare a memo to the City Attorney's Office with the settlement agreement.

Emergency Hotel Accommodations

1. Embassy Suites: 211 East Huntington Drive, Arcadia
   Contact: Heather Campbell, Front Office Manager 445-8525 x113 or Luis Plascencia, General Manager 445-8525 x110
   A. Limited Purchase Orders and credit cards accepted
   B. Breakfast included
   C. Offer an extended stay discount
      Approximately $139-$189 each night

2. Residence Inn: 321 East Huntington Drive, Arcadia
   Contact: Bernadette Soriano, General Manager (626) 446-6500 x4200 or Meijong Bastian, Assistant General Manager (626) 446-6500 x4201
   A. Credit cards accepted, **NO** Limited Purchase Orders
   B. Breakfast included
   C. Offer an extended stay discount:
      Approximately $199

3. Springhill Suites: 99 North 2nd Avenue Arcadia
   Contact: Tina Eng, Front Office Manager (626) 821-5400 or Zacharihs Morris, General Manager (626) 821-5400 x604
   A. Limited Purchase Orders and credit cards accepted
   B. Breakfast included
   C. Offer an extended stay discount:
      Approximately $179 each night

4. Hilton Garden Inn Arcadia: 199 North 2nd Avenue, Arcadia
   Contact: Esequiel Munoz, General Manager (626) 574-6900 x4468
   A. Limited Purchase Orders and credit cards accepted
   B. Breakfast included
   C. Offer an extended stay discount
      Approximately $129-$200

CITY OF ARCADIA
PUBLIC WORKS SERVICES DEPARTMENT

CONFIDENTIAL INCIDENT REPORT

THIS REPORT IS TO BE COMPLETED BY AN AUTHORIZED EMPLOYEE ONLY, AND IS BEING PREPARED IN ANTICIPATION OF LITIGATION FOR TRANSMITTAL TO AND USE BY THE CITY ATTORNEY'S OFFICE.

THIS REPORT IS NOT TO BE RELEASED TO ANY PERSON, INCLUDING THE INJURED PARTY, UNLESS EXPRESSLY AUTHORIZED BY THE CITY ATTORNEY.

1. Precise Location of Incident: *[i.e., six feet east of east curbline of Santa Anita Avenue, and five feet south of south curbline of Huntington Drive].* Please include all pertinent information (i.e., photos, videos, drawings, etc) as attachments.

2. Date of Incident:

3. Precise Time of Incident:

4. Date Incident Reported to City Staff:

5. Time Incident Reported to City Staff:

6. Name of Injured Party:

7. Date of Birth of Injured Party:

8. Address and Telephone Number of Injured Party:

9. Driver's License of Injured Party:

10. Employer of Injured Party:

11. Occupation of Injured Party:

12. Description of Footwear of Injured Party:

13. Was there any debris, foreign substance or liquid in the area where the incident occurred? *[i.e., puddle of water, grease or other liquid, leaves, gravel, etc.]*

NO ___ YES ___ If so, please describe:

14. Please provide a detailed description of the area where the incident occurred: *[i.e., uneven adjoining sections of sidewalk with 1/2 inch discrepancy on the north end and 3/4 inch discrepancy on the south end, etc.]*

15. How did Injured Party describe incident?

16. Describe weather conditions at the time of the incident:

17. Did Injured Party request medical attention? If so, what was done?

18. Briefly describe injuries, including part(s) of the body injured, and whether there was any property damage:

19. Identity of all witnesses, including names, addresses and telephone numbers:

20. Identity of all City personnel who appeared on the scene following the incident, including names, job titles and times arrived:

21. When was the last time, prior to the incident, that City personnel inspected the area involved?

22. Identify the City personnel who conducted the last inspection prior to the incident:

23. At the time of the last inspection, prior to the incident, what, if anything, was discovered?

24. Was the City staff aware of the condition, if any, that may have caused the incident at any time prior thereto? If so, provide details.

DATE THIS REPORT WAS COMPLETED:

NAME OF THE PERSON COMPLETING THIS REPORT: _____

_____

JOB TITLE OF THE PERSON COMPLETING THIS REPORT: _____

_____

[NOTE: PLEASE DO NOT ASK THE INJURED PARTY TO SIGN THIS INCIDENT REPORT. FURTHERMORE, PLEASE DO NOT GIVE A COPY OF THIS INCIDENT REPORT TO THE INJURED PARTY, UNLESS EXPRESSLY AUTHORIZED BY THE CITY ATTORNEY.]

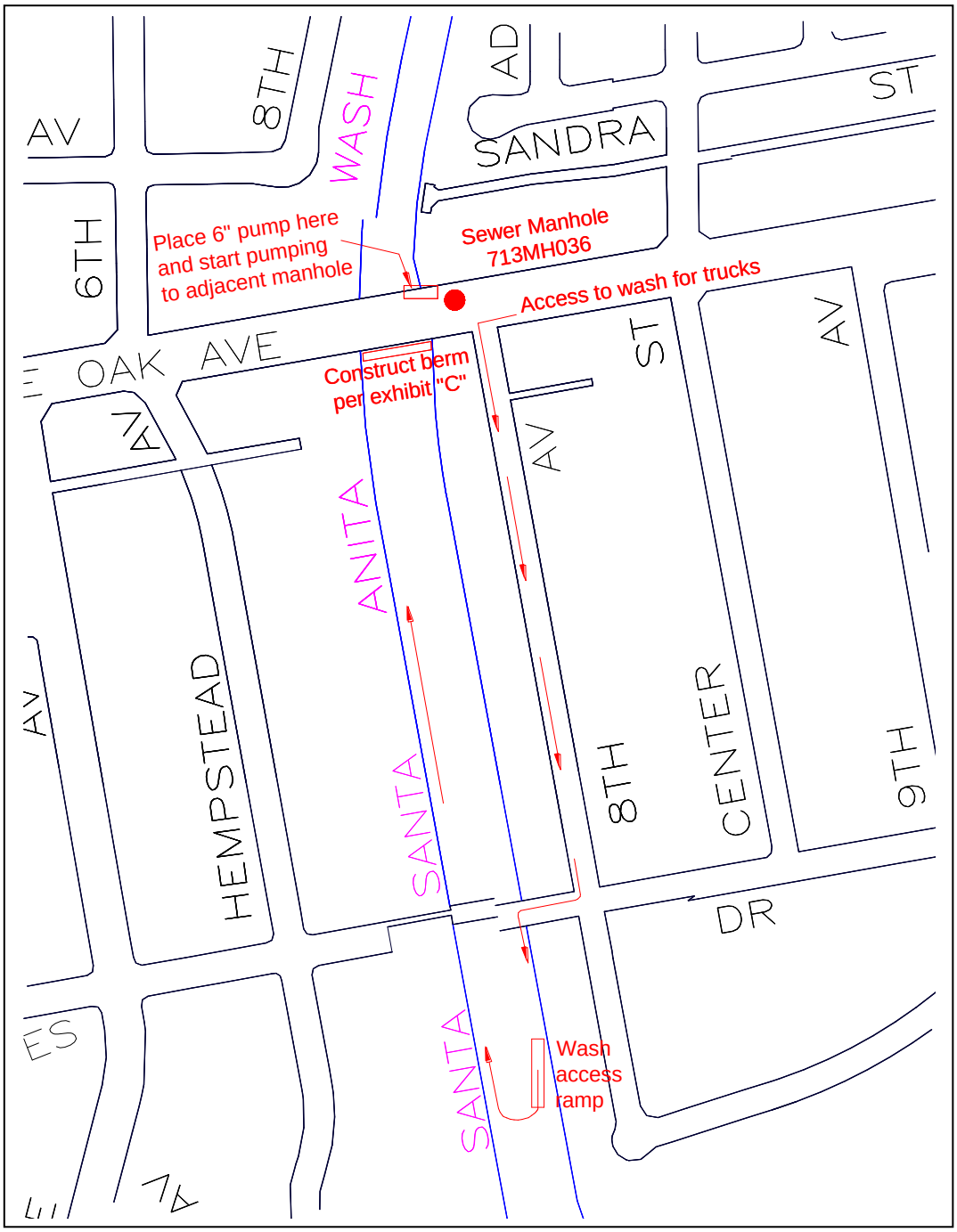
REVIEWED BY:_____

TITLE: _____

DATE: _____

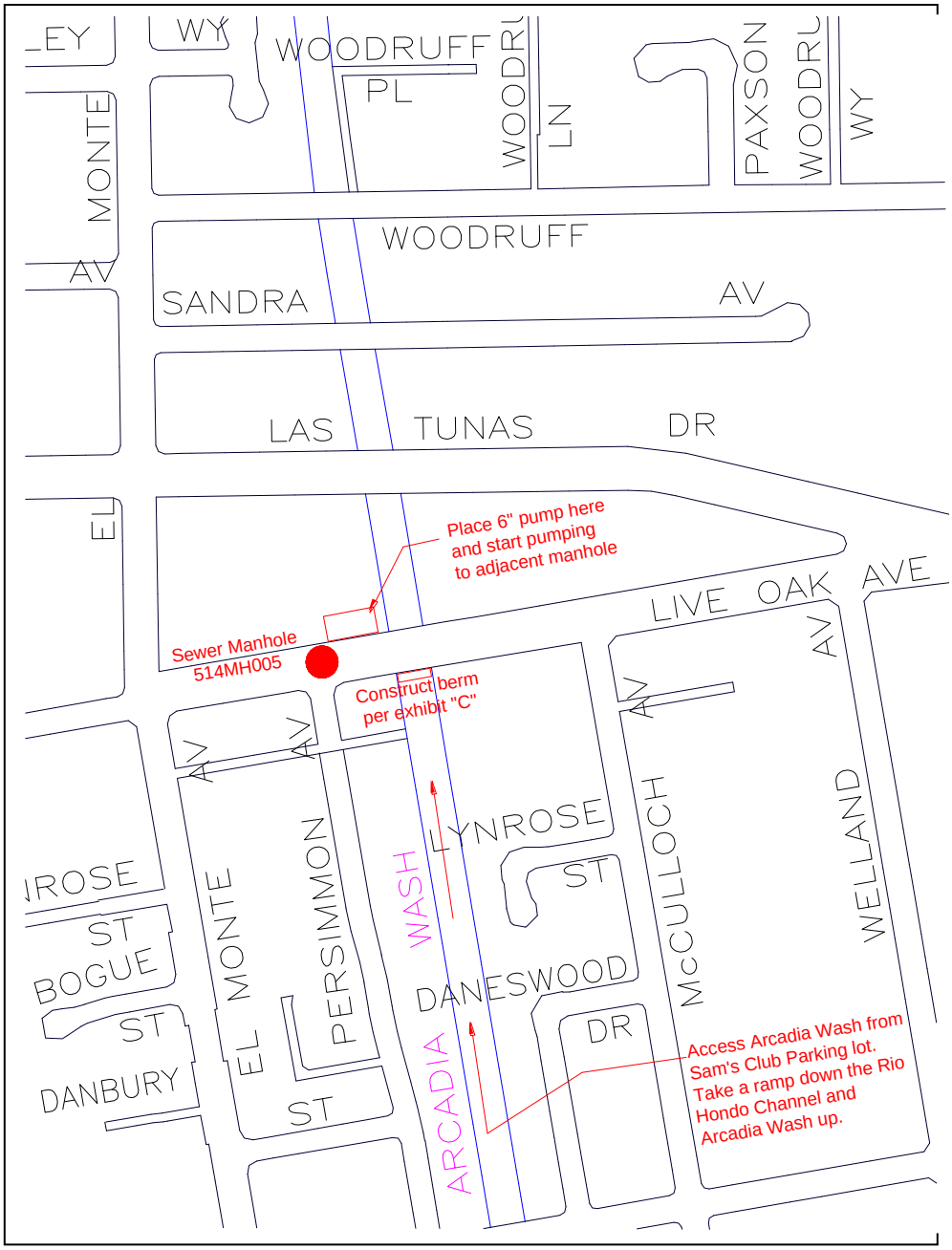
Spill into Santa Anita Wash Drainage System

1. Place 6" pump in Live Oak Avenue by Santa Anita Wash bridge and have it ready to pump to adjacent manhole.
2. Construct berm under the bridge per exhibit “C.”
3. Start pumping to sewer manhole.



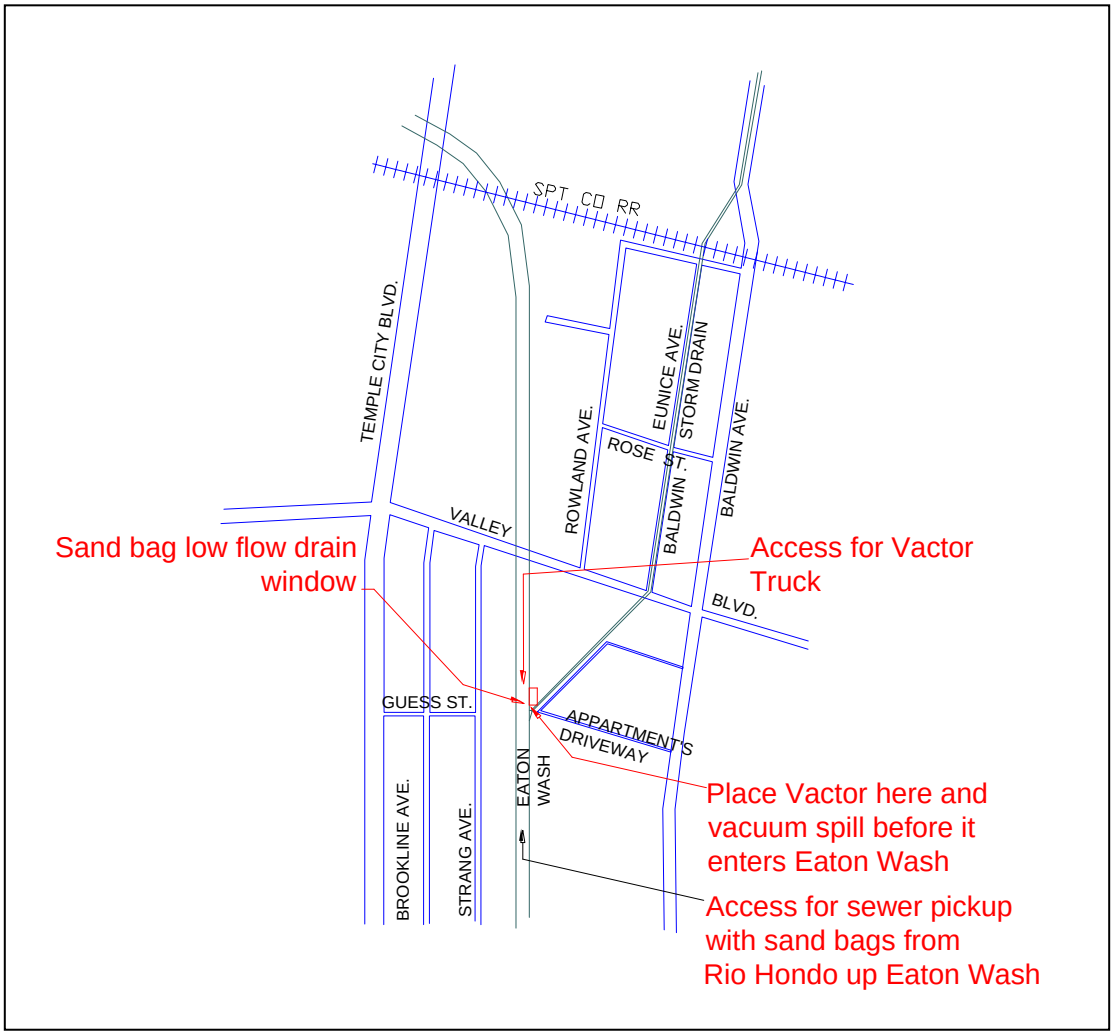
Spill into Arcadia Wash Drainage System

1. Place 6" pump in Live Oak Avenue by Arcadia Wash bridge and have it ready to pump to adjacent manhole.
2. Construct berm under the bridge per exhibit “C.”
3. Start pumping to sewer manhole.



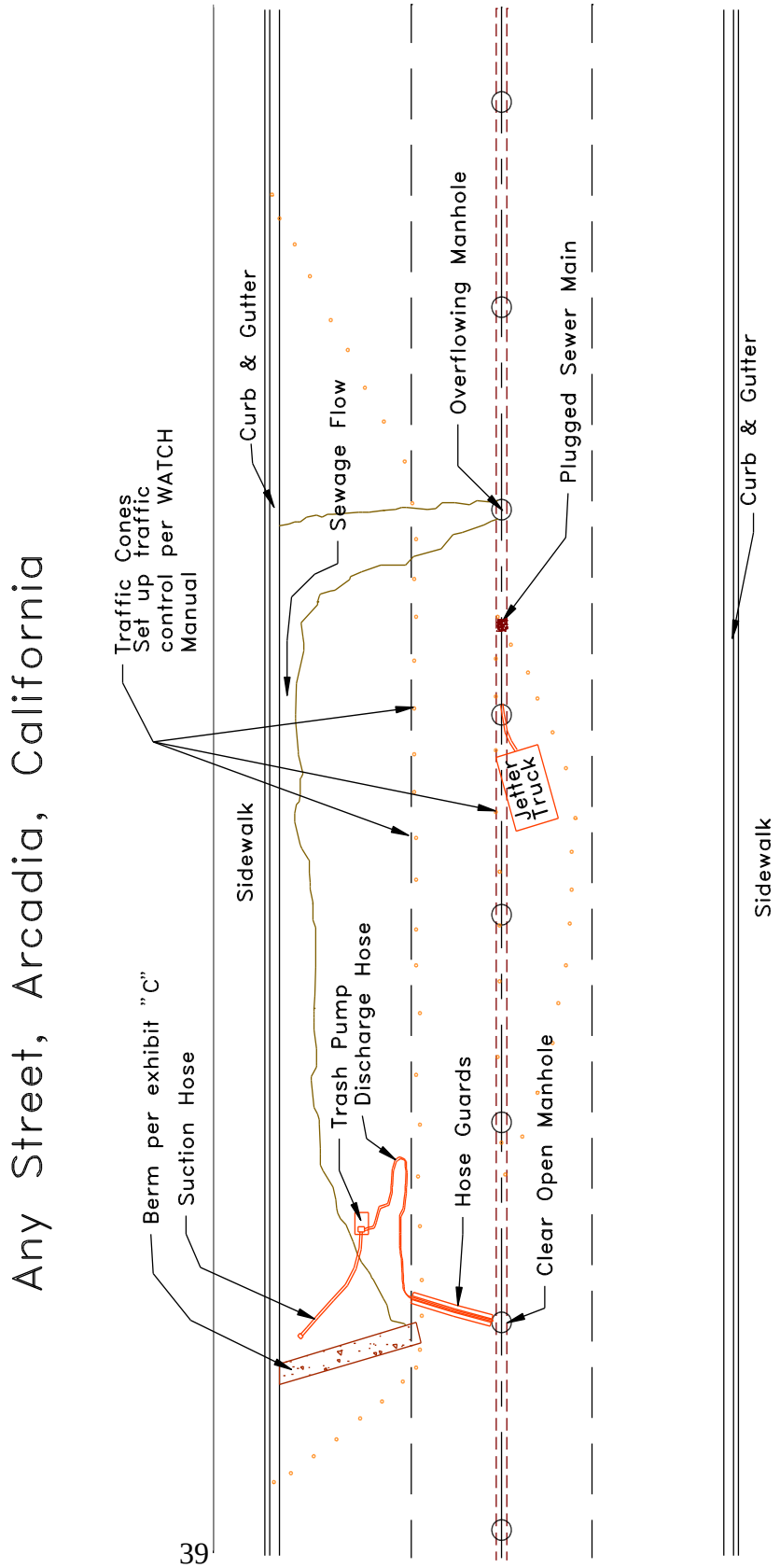
Spill into Baldwin Avenue Storm Drain

1. Place Vacuum truck (rental/contractor) on East side Eaton wash access road, where Baldwin Drain is connected.
   Vacuum retention basin below.
2. Drive sewer pickup truck with 20 full sandbags from Sam's Club parking lot, down the Rio Hondo Channel, pass the 10 freeway, turn right into Eaton Wash and continue till Baldwin Drain connection.
3. Sandbag low flow drain window.



SEWER SPILL
PUMPING SETUP

C:\OFFICE\WPWIN\WPDOCS\LUBO\SEWER.SPL



– CHAPTER 7 –
FATS, OILS, AND GREASE (FOG) CONTROL PROGRAM

Chapter 7 of this SSMP addresses the requirements included in Subsection D.13.(vii) of the Order. The requirements state:

> ***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.*

Section 7.0: Fats, Oils and Grease Control Program

7.1 Public Education Outreach Program

The City of Arcadia is responsible for assuring that all residents, restaurants, and commercial establishments within the City boundaries are well informed and aware of the harm of fats, oils, and grease (FOG) in the sewer system and that they effectively implement devices and follow procedures to properly dispose of FOG. FOG accumulated in the sewer system limits flow capacity in the sanitary sewer system and can create an overflow. Therefore, the City of Arcadia has made great efforts and continues to educate restaurants, residents and other commercial establishments about the proper disposal of grease through handouts (See Attachment 7.1).

The predominant problem in the City of Arcadia's sanitary sewer system is the blockages caused by the protruding roots and accumulation of grease on the roots. Grease that accumulates on the roots causes blockages that result in sewage back ups and overflows. To eliminate sewage backups and overflows due to FOG, the City of Arcadia does the following:

- Educates restaurants and the public with handouts and inserts on proper disposal of (FOG)

and preventative maintenance techniques along with best management practices.

- Contracts with John L Hunter and Associates, Inc. for environmental services to assist the City in having restaurants obtain and renew industrial waste permits, install proper devices to safe guard the sewer system, and conduct annual inspections.

- Created the legal authority for FOG control which applies to all resident and non resident facilities.

- Continues the usage of high-pressured jet cleaning for cleaning roots with accumulated grease.

7.2 Removal and Disposal of FOG from the Sewer Collection System

In the event of a blockage due to FOG, several cleaning techniques are available to clear the blockage and also work as a preventative maintenance tool. The City of Arcadia sewer crew clears blockages due to FOG by using a high velocity jetter truck to clean sewer lines. Once a FOG blockage has been cleared, the solidified FOG is trapped and removed from the system for proper disposal.

7.3 Legal Authority to Prohibit FOG Discharges to the Sewer Collection System

In order to effectively protect residents, businesses and the environment, the City of Arcadia established the legal authority to enforce regulations pertaining to the sewer system. Chapters 4 and 10 of the Municipal Code gives the City of Arcadia the authority to prevent illicit discharges, requires that the sewers and connections be properly designed and constructed, ensures access for maintenance, enforces violations of its sewer ordinance and limits the discharge of FOG (See Sewer System Legal Authority).

The Municipal Code states that all grease interceptors in use must be properly designed and pass inspection. Grease interceptors in the City of Arcadia must be of adequate size to prevent grease from entering the sewer. The size and the design must be approved by the City Engineer.

7.4 Identification and Maintenance of Sewer System Sections Subject to FOG Blockages

The City of Arcadia compiles data on the sanitary sewer system from multiple programs (closed circuit television CCTV inspections, line cleaning, line checking and flow monitoring) to identify those sanitary sewer sections subject to FOG blockages. Most of the information on those sections of the sewer system which are subject to FOG blockages comes from data from the CCTV Inspection of Sanitary Sewers Report located at the Public Woks Services Department in the Principal Engineers Office. The report identifies high priority segments with grease problems to enable the City of Arcadia to prioritize maintenance and repairs. High priority segments that require immediate attention are placed in the City of Arcadia's Capital Improvement Project List. This analysis also allows the City to make recommendations to help the City achieve its goal of eliminating sanitary sewer overflows caused by grease and root problems.

Other inspections such as line cleaning of sections of the sewer system that have a history of grease accumulation are cleaned on more frequent bases. The entire sewer system is maintained and cleaned annually, but there are sections of the sewer line that are placed on a 30, 90 or 180 day maintenance list because of grease accumulation (See Attachment 4.3).

7.5 Development and Implementation of Source Control Measures

The City of Arcadia regulates grease discharges from industrial sources through an Industrial Waste program aimed at protecting the sewer system from grease build up, scale (mineral) build up, and any other sources coming from a business that could compromise the sewer line. The City of Arcadia contracts with a consultant, John L. Hunter and Associates, to help the City manage the Industrial Waste Program. The type of business practiced by the establishment will determine if an industrial waste permit is required. If the establishment requires an industrial waste permit, an application is submitted to the Public Works Services Department. Once payments and requirements are met, our consultant grants the establishment the permit.

All businesses that have an industrial waste permit are placed on a category scale from A to E with 'A' being a business that requires two or more inspections a year and 'E' being a business that only requires one inspection per year. All restaurants in the City of Arcadia have been placed in the 'A' category and are inspected frequently. The consultant checks to assure that grease traps and interceptors are in good condition and working properly. Records of grease maintenance are also evaluated to ensure that the grease disposal is handled appropriately. Both the consultant and City staff remind restaurant owners to perform the proper Best Management Practices (BMPs). BMPs include practices such as recycling grease and oil and not pouring them down the sink or floor drains or onto a parking lot or street.

– CHAPTER 8 –
SEWER SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN (SSECAP)

Chapter 8 of this SSMP addresses the requirements included in Subsection D.13.(viii) of the Order. The requirements state:

> ***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.*

Section 8.0 System Evaluation and Capacity Assurance Plan

In 2006, the City of Arcadia adopted its Sewer Master Plan and Hydraulic Modeling Report (SMP). This plan uses new computer technologies and graphical data to develop proper hydraulic models and capacity needs. This information is combined with various planning scenarios to identify sewer system deficiencies and drive the Sanitary Sewer Capital Improvement Program. The City of Arcadia's Sewer Master Plan and Hydraulic Modeling report, serves as a system evaluation and capacity assurance plan. It evaluates the adequacy of the City's waste water collection system infrastructure through the year 2026 (The Sewer Master Plan and Hydraulic Modeling Report can be located in the Public Works Services Department). The scope of this plan is comprised of four elements; a hydraulic analysis, identification of capital improvement projects, evaluation of system operation and maintenance procedures, and the development of the sewer rate structure.

As part of the Sewer Master Plan, Capital Improvement Projects (CIP) are been determined. The projects are planned based on hydraulic analysis, CCTV inspections of the system, and staff recommendations. The CIP & Equipment Budget FY 14-19 is located in the Public Works Services Department. The primary objective of the Sewer Master Plan is to develop a rehabilitation schedule

to improve the hydraulic performance of the City's sanitary sewage collection system in order to prevent sewer backups, blockages or overflows, to reduce root buildup by relining pipe segments or increasing maintenance efforts, and to develop a financial plan to implement the recommended CIPs. The City of Arcadia's system evaluation and capacity assurance plan, known as the Sewer Master Plan and Hydraulic Modeling report includes:

- Evaluation of the sewer system and hydraulic flow: A description of the City of Arcadia's capacity assessment procedures and current capacity rating system can be found in the Sewer Master Plan. It explains the flow monitoring services which were completed in 2004. This report identifies estimates of peak flows associated with overflow events and examines the hydraulic deficiencies and major sources that contribute to peak flows that create overflows. Based on results of the hydraulic model, projects were identified and areas that require improvement were determined. Sewer design criteria were also evaluated and are documented in the SMP. The Sewer Master Plan and Hydraulic Modeling Report is located at the Public Works Services Department.

- Design Criteria: Based on the evaluation on the hydraulic flow of the sewer system, the City of Arcadia was able to determine the design criteria essential for sufficient performance of system collection pipes. The evaluation allows for the City to identify sewer pipes that could potentially have problems based on size and hydraulic flow. The Sewer Master Plan provides sufficient data to insure that each sewer pipe has the appropriate capacity rating.

- Capacity Enhancement Measures: Capital Improvement Projects are developed for City owned pipes which were found to have hydraulic deficiencies or other problems that could potentially cause an overflow. Detailed schedules of completion dates and total projected costs for these projects were incorporated in the CIP & Equipment Budget FY 14-19.
- Schedule: Sewer pipes that were identified as having hydraulic deficiencies as well as any other problem that could possibly cause a sewer spill were prioritized and placed in the CIP on Capital Improvement Detail forms to indicate the start and completion dates.

– CHAPTER 9 –
MONITORING, MEASUREMENT, AND PROGRAM MODIFICATIONS

Chapter 9 of this SSMP addresses the requirements included in Subsection D.13.(ix) of the Order. The requirements state:

> ***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.*
> *(e) Identify and illustrate SSO trends, including: frequency, location, and volume.*

Section 9.0: Monitoring, Measurement and Program Modifications

9.1 Maintain Relevant Information to Establish and Prioritize SSMP Activities

The City of Arcadia maintains all information on work performed on the sewer system by storing electronic and hard copies of work records. Maintaining all data relevant to work performed allows the City to prioritize appropriate SSMP activities. Primarily, work reports consist of preventative maintenance schedules and work orders. The City cleans all sewer lines annually and adheres to a high priority maintenance schedule that requires additional cleaning.

These activities are documented in daily reports of work performed on the sewer lines to insure that annual and high priority maintenance schedules are met (See Attachment 9.1 Daily Report Sample). These reports are compiled into monthly reports (See Attachment 9.2 Sewer Crew Month Report). Color coded maps show which portions of the sewer lines must be cleaned each month and are compared to daily work reports to insure areas are cleaned at the appropriate schedule (See Attachment 4.1, Color Coded Map and Attachment 9.3 Monthly Footage Totals). All Sewer Spill Overflows (SSOs) are tracked in the City database and also reported online to the State Water Resources Control Board. Storing information on SSO locations allows the City to stay on top of specific areas where sewer spills may potentially reoccur. As necessary, these locations are placed on the high priority maintenance (Hot-Spots) schedule which increases the cleaning frequency for each location. Tracking high priority areas allows the City to work with local restaurants to make sure that grease is properly disposed of and that best management techniques are being practiced to protect the sewer lines.

9.2 SSMP Implementation and Effectiveness

Through performance Indicators, the City of Arcadia can monitor and measure the performance of elements of the SSMP. Performance Indicators can be used to compare the SSMP performance with other city agencies and identify the effectiveness of its program elements. The following is a list

of Performance Indicators that can be reviewed every year to measure the effectiveness of the sewer system management plan:

Yearly Performance Indicators

1. Total number of SSOs:_____
2. Total number of SSOs that were non preventable:_____
3. Total number of SSOs that were preventable:_____
4. Total number of SSOs that were wet weather capacity related:_____
5. Total number of SSOs that Discharged into the waters of the United States: _____
6. What were the causes of the SSOs which occurred this year?
7. What was the percent of scheduled Preventative Maintenance work which was accomplished this year?

9.3 Assess the Success of the Preventative Maintenance Program

The City of Arcadia will consider the preventative program successful when the City has no sewer backups during the year. When the sewer lines are cleaned according to schedule, the preventative maintenance program is successfully working. Records will be kept to insure that the preventative maintenance program is on track. The City has established a goal of zero sewer spills per year and values the preventative maintenance program that is currently in place. Following the preventative maintenance program and the high maintenance schedule, the City will be able to achieve their goal.

9.4 Updating SSMP Program Elements

Based on monitoring and performance evaluations, the program elements of the SSMP will be updated or modified as appropriate. At a minimum, Arcadia will update their SSMP every five years and will include any significant program changes. When the SSMP has been updated, it will be presented to the City Council at a public meeting. If only minor program changes are noted, the SSMP will be submitted on the web for recertification.

9.5 Identify and Illustrate SSO Trends

Arcadia has mapped all sewer lines and can easily identify and illustrate SSO trends, including the frequency, location, and volume. This information is important because it allows City staff to place sewer lines with reoccurring problems on a high priority maintenance list, which will be frequently observed and maintained. Once certain locations have been identified as high priority areas, the City is able to inform customers located near the sewer lines of how to practice best management techniques to assure the sewer lines are being protected.

– CHAPTER 10 –
SSMP PROGRAM AUDITS

Chapter 10 of this SSMP addresses the requirements included in Subsection D.13.(x) of the Order. The requirements state:

> ***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 the subsection (D.13), including identification of any deficiencies in the SSMP and steps to correct them.*

Section 10.0: SSMP Audit

The City of Arcadia will conduct an internal audit and report on the SSMP every two years beginning in 2011. The audit will provide insight on how effectively the SSMP is being implemented and will provide information about the challenges and successes in implementing the SSMP. The audit will involve input from personnel that work within the sanitary sewer system, observations, equipment inspections and reviews. The audit will allow for discussion of deficiencies in the City's SSMP Program and will include steps on how the City plans to correct any issues that are found.

– CHAPTER 11 –
COMMUNICATION PROGRAM

Chapter 11 of this SSMP addresses the requirements included in Subsection D.13.(xi) of the Order. The requirements state:

> ***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.*

Section 11.0: Communication Program

The City of Arcadia will provide all residents and businesses located in the City with status updates on the development and implementation of the SSMP and will consider any comments submitted back in response. Information on the SSMP will be sent either as attachments in water bills, through the City newsletter and brochures, and through the City's web page.

11.1 SSMP Availability

Copies of the SSMP will be maintained in the Public Works Services Department. An electronic copy of the SSMP will be kept in the Public Works File under P:\Sewer\Sewer System Management Plan (SSMP). Hard copies of the Sewer Master Plan or CCTV analysis can be found in the Public Works Services Department and are available for review during regular business hours. The SSMP will be available to the Regional Water Quality Control Board upon request.

CITY OF ARCADIA
SEWER SYSTEM MANAGEMENT PLAN
ATTACHMENTS

Revised November 2014

P:\Sewer\Sewer System Management Plan (SSMP)\Entire SSMP\SSMP Attachments

CHAPTER 4. SEWERS

PART 1. DEFINITIONS

ARTICLE VII. - PUBLIC WORKS
CHAPTER 4. - SEWERS

PART 1. DEFINITIONS

7410. GENERAL.

For the purpose of this Chapter certain words and phrases are hereinafter defined and shall have the meaning ascribed to them by the following subsections.

7410.1. BOILER BLOW-OFF.

Boiler Blow-Off means the condensed steam or hot water from a boiler when "blown off" to remove scale and slime or "blown-down" for cleaning and repair.

7410.2. CESSPOOL.

Cesspool means an excavation in the ground which receives the discharge of a house drain constructed as required by Chapter 2 of Article VIII of this Code.

7410.3. CHIMNEY.

Chimney means a vertical section of a house connection sewer extending either from a vertical tee on the main line or from a long radius ¼ bend set vertically at the curb or property line, and in either case suitably reinforced with concrete.

7410.4. CONDUCTOR OR ROOF LEADER.

Conductor or Roof Leader means any piping which carries storm or rain water from any roof or building, yard or court.

7410.5. DOMESTIC SEWAGE.

Domestic Sewage is sewage derived solely from residences, business buildings or institutions.

7410.6. DOWNSPOUT.

Downspout means the vertical portion of a conductor or roof leader.

7410.7. GREASE INTERCEPTOR.

Grease Interceptor means a device for retaining grease or oil by gravity-differential separation from waste effluent and of a design and capacity approved by the City Engineer.

7410.8. HOUSE CONNECTION SEWER.

House Connection Sewer means that part of the horizontal piping beginning twenty-four (24) inches from the exterior wall of the building or structure and extending to its connection with the public sewer, through which is discharged domestic sewage.

7410.9. INDUSTRIAL CONNECTION SEWER.

Industrial Connection Sewer means a house connection sewer through which is discharged industrial liquid waste or industrial sewage as herein defined.

7410.10. INDUSTRIAL LIQUID WASTE.

Industrial Liquid Waste means any water-borne waste from a manufacturing process or industry, except domestic sewage and uncontaminated cooling water.

7410.11. INDUSTRIAL SEWAGE.

Industrial Sewage is sewage in which industrial wastes predominate.

7410.12. INSTITUTIONAL SEWAGE.

Institutional Sewage is domestic sewage from institutions, such as hospitals, sanitariums, or penal or charitable establishments.

7410.13. INSPECTOR.

Inspector means the authorized inspector, deputy, agent, or representative of the City Engineer.

7410.14. LICENSED CONTRACTOR.

Licensed Contractor means a house connection sewer contractor licensed by the State for such purposes.

7410.15. LOT.

Lot means any piece or parcel of land bounded, defined, or shown upon a plat or deed recorded in the office of the County Recorder which conforms to the boundaries of such lot as shown upon such recorded map, plat or deed; provided, however, that in the event any building or structure covers more area than a lot as herein defined, the term "lot" shall include all such pieces or parcels of land upon which said building or structure is wholly or partly located.

7410.16. MAIN LINE SEWER.

Main Line Sewer means any sewer in which changes of alignment and grade occur only at manholes that provide access for cleaning and inspection. Such sewers are usually eight (8) inches or more in diameter.

ARTICLE VII. - PUBLIC WORKS
CHAPTER 4. - SEWERS

PART 1. DEFINITIONS

7410.17. PUBLIC SEWER.

Public Sewer means the main line sewer, constructed in a street, highway, alley, place or right of way dedicated to public use. Public Sewer does not include house connection sewer.

7410.18. SAND INTERCEPTOR.

Sand Interceptor means a device for retaining sand, silt, grit or other mineral material by gravity differential separation from waste effluent, and of a design and capacity approved by the City Engineer.

7410.19. SEEPAGE HOLE.

Seepage Hole means a hole constructed as required by the provisions of Chapter 2 of Article VIII of this Code.

7410.20. SEPTIC TANK.

Septic Tank means a structure for treating sewage before disposal in a cesspool, seepage hole, or leaching system, constructed as required by the provisions of Chapter 2 of Article VIII of this Code.

7410.21. SEWAGE.

Sewage means the water-borne wastes from dwellings, kitchens, restaurants, institutions, stables, dairies, business buildings, and other similar structures, but excluding any storm water, rainwater, surface water, ground water, roof or yard drainage.

7410.22. SOIL PIPE.

Soil Pipe means any pipe receiving the sewage from one or more water closets or clinic sinks, with or without connection to any other plumbing fixture, but does not include house connection sewers.

7410.23. SPECIAL WASTE PIPE.

Special Waste Pipe means any pipe or fitting designed to eliminate direct connection with the sewer by allowing a free fall of liquid wastes into an approved plumbing fixture or receptacle which is directly connected to a soil waste pipe.

7410.24. STREET PROPERTY LINE.

Street Property Line means right of way line.

7410.25. TEE OR T.

Tee or T means a fitting for a branch on which the spur joins the barrel of the pipe at an angle of approximately 90 degrees.

7410.26. TITLE.

This Chapter shall be known as the Sanitary Sewer Ordinance, and may be cited as such.

7410.27. WASTE PIPE.

Waste Pipe means any pipe receiving the discharge or any plumbing fixture, except a water closet and clinic sink, but including house connection sewers.

7410.28. WYE OR Y.

Wye or Y means a fitting for a branch on which the spur joins the barrel of the pipe at an angle of approximately 45 degrees.

PART 2. SPECIFIC APPLICATIONS

7420. NEW MAIN LINE SEWERS.

New main line sewers shall conform to the requirements of this Chapter unless otherwise specifically excepted.

7421. NEW HOUSE CONNECTION SEWERS.

New house connection sewers shall conform to the requirements of this Chapter unless otherwise specifically excepted.

7422. EXISTING HOUSE CONNECTION SEWERS.

The following requirements shall apply to existing house connection sewers:

(1) If the construction of a new house connection sewer is to include any portion of an existing drain to a cesspool, septic tank or other means of disposal, such construction shall be included and accepted only when it meets all the requirements for new house connection sewers, except that the materials of construction of the existing portions, used and undisturbed, may not be rejected because they are not new.

(2) If an existing house connection sewer is added to or altered because of a change of use, such sewer shall be made to conform to the requirements of this Chapter which apply to new construction.

(3) No inspection and test shall be required for the undisturbed existing portion of a house connection sewer constructed under permit from the office of the City Engineer, but any additions thereto or alterations or extensions thereof, shall in all respects conform to the requirements of this Chapter.

7423. SAND AND GREASE INTERCEPTORS.

Every grease interceptor or sand and grease interceptor or other appurtenance constructed and connected to the public sewer shall conform to the requirements of this Chapter therefor, unless otherwise specifically excepted.

7424. MAINTENANCE OF HOUSE CONNECTION SEWER.

All house connection sewers, industrial connection sewers, and appurtenances thereto, now existing or hereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Chapter for the operation thereof shall be maintained in good working order.

7425. MAINTENANCE OF INTERCEPTORS AND OTHER FACILITIES.

The requirements contained in this Chapter covering the maintenance of sanitary grease interceptors, sand interceptors, sand and grease interceptors, or other appurtenances, shall apply to all such facilities now existing or hereafter constructed. All such facilities shall be maintained by the owners thereof in a safe and sanitary condition, and all devices or safeguards which are required by this Chapter for the operation of such facilities shall be maintained in good working order. This Section shall not be construed as permitting the removal or nonmaintenance of any devices or safeguards on existing facilities unless authorized in writing by the City Engineer.

7426. NON-RESPONSIBILITY OF CITY.

The City shall in no event be responsible for the maintenance or repair of or for removal of obstructions in or to any house connection sewer, industrial connection sewer interceptor or other sanitary sewer facility other than sewer main line.

(Added by Ord. 1130 adopted 7-18-61)

PART 3. PERMITS AND PLANS

7430. PERMIT REQUIRED.

No person, other than persons specifically excepted by this Chapter, shall commence, or do or cause to be done, or construct or cause to be constructed, or use or cause to be used, or alter or cause to be altered, any public sewer or main line sewer, or house connection sewer, or industrial connection sewer, or sand and grease interceptor, or sand interceptor, or grease interceptor, or other similar appurtenance without first obtaining a permit from the City Engineer. Such a permit is not required for installation of a sand and grease interceptor or sand interceptor or grease interceptor, if a permit has been issued for such construction pursuant to the provisions of Chapter 2 of Article VIII of this Code.

7430.1. SAME. NOT TRANSFERABLE.

Permits issued under this Chapter are not transferable from one person to another, and connections shall not be made at any place other than the location specifically designated therein.

7430.2. LIABILITY INSURANCE.

Before a sewer permit is issued pursuant to this Chapter for the excavation of a trench on City property or in a public street or alley, a certificate of insurance coverage naming the City as additional insured and issued by an approved insurance company in accordance with the injury and damage amounts set forth by resolution of the City Council shall be filed with the City Engineer.

(Amended by Ord. 1940 adopted 6-18-91)

7431. SURETY BOND.

Other than a contractor licensed by the State and his employees working under his supervision, every person engaging in or performing sewer or house connection sewer work shall, before procuring a permit for the performance of such work, deposit with the City a cash deposit or a surety bond in accordance with the amount set forth by resolution of the City Council. The cash deposit or bond shall be for the benefit of the City to assure full and faithful compliance with all of the provisions of this Chapter.

(Amended by Ord. 1940 adopted 6-18-91)

7431.1. SAME. DURATION.

Said bond shall be held until the final approval by the City of the house connection sewer work performed. Upon final approval of the work, such cash deposit or so much thereof as still remains unappropriated shall be repaid to the depositor thereof.

7431.2. SAME. USE OF PROCEEDS.

In the event that any sewer or house connection sewer work performed by the depositor of any cash deposit or bond does not fully comply with the provisions of this Chapter, and if upon five (5) days' notice the said depositor fails or neglects to remedy such defective work or noncompliance, the City may have such defective work corrected and out of such cash deposit pay the amount required to remedy such defective work, or in case of a bond, proceed to enforce the provisions thereof.

7431.3. SAME. PENALTY.

In the event that a portion of said cash deposit is used to correct defective work, no additional permit to do sewer or house connection sewer work shall be issued to the depositor thereof until said cash bond is restored to the original amount.

(Amended by Ord. 1940 adopted 6-18-91)

7431.4. SAME. APPROVAL.

The form of any bond required by this Part and the sufficiency of the surety on any such bond shall be subject to the approval of the City Attorney.

7432. TAPPING PUBLIC SEWER.

When in the opinion of the City Engineer it is necessary to connect a house connection sewer to a public sewer at a point where no "Y" or "T" or "Chimney" has been installed in the public sewer, a sewer tapping permit for tapping the public sewer shall be obtained by the applicant before the permit is issued for construction of such house connection sewer.

7432.1. APPLICATION.

Any person requiring a permit under the provisions of this Chapter shall make written application therefor to the City Engineer, giving such information as said City Engineer may require. The City Engineer shall provide printed application forms for the various types of work permitted under this Chapter, indicating thereon the information to be furnished by the applicant. The City Engineer may require, in addition to the information furnished by the printed form, any additional information from the applicant which will enable the City Engineer to determine that the proposed work complies with the provisions of this Chapter.

7432.2. SAME. OWNER PERMIT.

The City Engineer may issue a permit to the owner of any lot used exclusively for residence purposes, to construct his own domestic house connection sewer and appurtenances thereto, provided that the owner shall sign each application for such permit and shall submit therewith a signed statement that no labor will be hired and he will do all the work personally and complete the work as provided in Chapter 2 of Article VIII of this Code and in this Part.

7433. CITY ENGINEER TO ISSUE PERMIT.

If it appears from the application for any permit required by this Chapter that the work to be performed thereunder is to be done according to the provisions of this Chapter, the City Engineer, upon receipt of the fees and deposits hereinafter required, shall issue such permit.

7434.

(Repealed by Ord. 1940 adopted 6-18-91)

7435. MAIN LINE SEWERS.

Before granting a permit for the construction of any main line sewer or industrial connection sewer, with or without house connection sewers, the City Engineer shall check and approve the plans therefor as to their compliance with county, state and other governmental laws or ordinances, and as to conformity with the standards of design hereinafter fixed by this Chapter.

7436. INDUSTRIAL WASTE AND SEWAGE DISPOSAL.

Before granting a permit to any applicant to discharge any industrial liquid waste or industrial sewage into the public sewer, the City Engineer shall determine either that the waste is one which will not damage or destroy the public sewer or cause an unwarranted increase in the cost of maintenance of the public sewer or retard or inhibit the treatment of the sewage or is one that can be made acceptable by pre-treatment.

7437. SPECIAL HOUSE CONNECTIONS.

Permit for a house connection sewer of more than ordinary length or depth, or to be constructed under unusually hazardous conditions in a public street or highway or sanitary sewer right of way, shall be applied for as a main line sewer permit, and plans therefor shall be checked and approved by the City Engineer.

7438. REVOCATION OF PERMITS.

The City Engineer may revoke the permit issued to any person and may disconnect from the public sewer any house or industrial connection sewer which is constructed or connected without permit or which is used contrary to the provisions of this Chapter governing industrial liquid waste or industrial sewage disposal.

7438.1. SAME. NOTICE.

The City Engineer shall make every reasonable effort to notify the owner or occupant of the premises affected by any proposed disconnection and may grant a reasonable time for elimination of the violation. Notification shall be made by delivery of a notice in writing, either to the occupant of the premises or to the record owner of the property as shown upon the last equalized assessment roll for County taxes. Such notice shall be delivered either by first class mail, postage prepaid, or by personal service.

7438.2. EXCEPTION MAY BE GRANTED.

Whenever the City Engineer is permitted by this Chapter to grant an exception to any requirement of this Chapter, he shall do so only if he finds that literal compliance with such provision is impossible or impractical because of peculiar conditions in no way the fault of the person requesting such exception, and that the purposes of this Chapter may be accomplished and public safety secured by an alternative construction or procedure, in which case he may permit such alternative construction or procedure.

PART 4. FEES AND DEPOSITS

7440. ORIGINAL PERMIT FEES.

The City Engineer shall grant no permit for house connection sewer, industrial connection sewer, sand interceptor, grease interceptor, sand and grease interceptor, or other similar appurtenance until the applicant pays to the City a fee in accordance with the amount set forth by resolution of the City Council for each original permit.

(Amended by Ord. 1344 adopted 4-18-67; amended by Ord. 1940 adopted 6-18-91)

7440.1. SADDLE AND WYE FEE.

The City Engineer shall grant no permit to tap the public sewer by saddling or inserting a wye for a house connection sewer until the applicant pays to the City a fee in accordance with the amount set forth by resolution of the City Council.

(Amended by Ord. 1344 adopted 4-18-67; amended by Ord. 1940 adopted 6-18-91)

7440.2. INSPECTION FEES.

To cover the cost of inspection of the work pursuant to this Chapter, an inspection fee shall be paid to the City in accordance with the amount set forth by resolution of the City Council.

ARTICLE VII. - PUBLIC WORKS
CHAPTER 4. - SEWERS

PART 4. FEES AND DEPOSITS

(Amended by Ord. 1940 adopted 6-18-91)

7440.3.

(Repealed by Ord. 1940 adopted 6-18-91)

7441. ALTERATION PERMIT FEE.

Any person desiring to make alterations, additions or repairs to a house connection sewer, industrial connection sewer, sand interceptor, grease interceptor, sand and grease interceptor, other than cleaning and stoppage of leaks shall, after it has been inspected and passed, apply for an additional inspection permit for said alterations, additions or repairs.

7442. RECORD OF FEES.

The City Engineer shall keep in proper books a permanent and accurate account of all fees received under this Chapter, giving the names and addresses of the persons on whose accounts the same were paid, and the date and amount thereof, which books shall be open to public inspection.

7442.1. RECORD OF DEPOSITS.

The City Engineer shall keep a permanent and accurate account of all deposits received under this Chapter, giving the names and addresses of the persons upon whose accounts the same were deposited, the date and amount thereof and the number of the permits granted, if any.

7442.2. RECORDS.

The City Engineer shall keep a permanent record of all applications and a permanent and accurate account of all payments received under Section 7445.

7443. PERMITS EXEMPT FROM FEE.

This Part does not require the payment of any fee where the collection of such fee is prohibited by any State statute.

7444. APPLICATION.

Any person requiring a permit to connect to any trunk sewer or other public sewer which has been constructed at no cost to the abutting land shall make a written application to the City Engineer giving a description of the lot or parcel to be served by the connection and such other information as the City Engineer may require on printed forms to be furnished for that purpose.

7445. CONNECTION CHARGE.

The City Engineer may issue a permit to make such sewer connection upon payment of the fees provided in Section 7440 and, in addition thereto, the payment of an amount computed with reference to the area of the lot, piece, or parcel of land sought to be connected, at the following rates, to wit: At the rate of $2.50 per 100 square feet of the area lying between the front line of said lot, piece or parcel and a line therein parallel with and 150 feet, measured at right angles, from said front line, and at the rate of $0.15 per 100 square feet of the remaining area of said lot, piece or parcel. In the event that any public entity other than the City requires a connection charge or fee for use of a trunk sewer prior to the issuance of a permit by the City, the charge required in this section shall be reduced by the amount of the charge or connection fee made by such other public entity.

7445.1. SAME. COST REIMBURSEMENT.

In addition to the amounts specified in Sections 7440, 7440.1 and 7445, the applicant for a sewer connection permit shall pay to the City prior to the issuance of such sewer connection permit, the cost of the installation or extension by the City of any sewer lateral from a sewer trunk line to the property line of the property to which a sewer connection is to be made, when the reimbursement to the City of the cost of the installation or extension of such sewer lateral has not otherwise been provided for by bond issue or private contract.

7446. PAYMENT IN ADVANCE.

The payment of the charges prescribed by Section 7445 shall be made in advance of the application for permit under Section 7440. Nothing in Section 7445 shall be deemed or construed to apply to the issuing of a permit for the construction of a house connection sewer or an industrial connection sewer if the lot or parcel sought to be connected, although abutting on a trunk sewer, has been duly assessed under special assessment proceedings for a public sewer, unless the sewer connection required provides benefit in addition to the benefit received from the sewer for which the property was previously assessed.

7447. FUTURE ASSESSMENTS.

In the event the lot or parcel specifically described in the application required under Section 7444 receives additional benefit from any public or trunk sewer, Section 7445 shall not relieve the property owner from future payment of connection charges as herein provided, nor shall the property be relieved from the levy of a special assessment under any special assessment statute of the State for such additional benefit.

7448. EXCEPTION.

The provisions of Section 7445 shall not apply to the following:

(1) Any sewer constructed in accordance with Section 11544 of the Business and Professions Code of the State.

(2) Any sewer for which the amount of contribution has been established by resolution in accordance with Section 5837 of the Streets and Highways Code of the State.

PART 5. INSPECTIONS

7450. INSPECTION BY CITY ENGINEER.

All work done under the provisions of this Chapter shall be subject to inspection by and shall meet the approval of the City Engineer; provided, however, that approval by the City Engineer shall not relieve the permittee or any other person from fully complying with all of the applicable provisions of Chapter 2 of Article VIII of this Code and no provision of this Chapter supersedes, affects or modifies in any way the provisions of said Chapter 2 of Article VIII.

7450.1. NOTICE OF INSPECTION.

Immediately after the work is ready for inspection, and at least twenty-four (24) hours before inspection is to be made, the permittee shall request such inspection by the City Engineer.

7450.2. WORK TO BE UNCOVERED.

At the time of the inspection, the permittee shall have all work uncovered and convenient for the City Engineer's examination, and shall give the City Engineer every facility to make a thorough examination and to apply water pressure tests as hereinafter provided.

7451. NOTICE TO REMOVE OBSTRUCTIONS BEFORE INSPECTION.

If any pipes are enclosed or covered in any way so as to tend to obstruct a thorough inspection of the sewer construction or installation and the City Engineer notifies the permittee to remove said obstructions, the City Engineer need not inspect the work until such obstructions are removed.

7452. CORRECTION OF DEFECTS.

Within ten (10) days after the City Engineer notifies the permittee that any work is defective, either in its construction or material, the permittee shall reconstruct or remove such work and make it conform to the provisions of this Chapter.

7452.1. PERMITTEE TO FURNISH LABOR AND EQUIPMENT.

The permittee shall furnish all labor, tools and materials necessary for all tests. No house connection sewer will be inspected unless the required plug and water for test are available on the job when the City Engineer arrives. Plugs shall be those designed for operation from outside the fitting.

7453. CONNECTION OF FIXTURES.

On every lot for which a house connection sewer permit is obtained as required by this Chapter, every plumbing fixture requiring drainage shall be connected to the public sewer, and the City Engineer shall be given opportunity to ascertain that all said fixtures are connected. If, however, there be inadequate grade or fall to allow any such fixture to drain to the public sewer, then the permittee shall, in lieu of such connection, obtain permission in writing from the City Engineer to dispose of said drainage in a sanitary and acceptable manner.

7453.1. COMPLIANCE WITH STANDARD SPECIFICATIONS.

All material used in any work done under provisions of this Chapter shall be new, first-class material and shall conform to, and the manner of construction shall meet all the requirements prescribed by this Chapter or by the specifications for public sewers designated as "Standard Specifications for the Construction of Sanitary Sewers" on file in the office of the City Engineer and hereby adopted as the standard specifications for construction, installation and alteration of both public and house connection sewers, and all such work shall be approved by the City Engineer before a certificate of final inspection will be issued. The City Engineer may order tests of any material at the expense of the permittee, to determine whether such materials meet said specifications.

7453.2. PRIOR CONNECTION OF FACILITIES.

If a house connection sewer, industrial connection sewer, grease interceptor, sand interceptor, sand and grease interceptor, or other similar appurtenance is placed in use and fails

to pass inspection, the permittee shall make the construction conform to the requirements of this Chapter within ten (10) days.

7454. NEW PERMIT ON DISAPPROVAL.

In the event that the house connection sewer, grease interceptor, sand interceptor, sand and grease interceptor, or other similar appurtenance fails to pass inspection or if the alterations or additions as provided in Section 7441 are not completed, the person who obtained the permit shall obtain an additional inspection permit within ten (10) days of the date of such failure to pass inspection. Nothing in this Section shall require or be deemed to require the application for or the issuance of an additional inspection permit for the purpose of removing stoppages or repairing a leak in any public or house connection sewer, except when it is necessary to replace any part or all of such sewer with other or different materials.

7454.1. TIME LIMIT ON SECOND INSPECTION PERMIT.

If an inspection is not requested on an additional inspection permit within sixty (60) days from the date of its issuance, such permit shall thenceforth be cancelled and shall be null and void and a new additional inspection permit shall be applied for.

7454.2. OVERALL TIME LIMIT.

All work authorized by an original permit, irrespective of the number of additional inspection permits issued, shall be completed to the satisfaction of the City Engineer within one hundred twenty (120) days from the date of the original permit.

7455. MAINTENANCE INSPECTIONS.

The City Engineer may inspect, as often as he deems necessary, every industrial connection sewer, house connection sewer, sand interceptor, grease interceptor, sand and grease interceptor, back water trap or valve, or other similar appurtenances, to ascertain whether such facilities are maintained and operated in accordance with the provisions of this Chapter.

7455.1. INTERFERENCE PROHIBITED.

No person shall prevent the City Engineer from having access to all such facilities at all reasonable times.

PART 6. DESIGN STANDARDS

7460. CONFORMANCE OF WORK AND PLANS.

All plans required under the provisions of this Chapter for the construction of main line and house connection sewers shall conform to the standards of design prescribed by this Chapter. Plans required for all other sewer construction or installation under the provisions of this Chapter shall conform to the standards of design on file in the office of the City Engineer.

7461. SIZE OF MAIN LINE SEWER.

Main line sewer pipe shall have an inside diameter of not less than eight (8) inches and shall have sufficient capacity to carry sewage from the area tributary thereto when computed upon the following basis:

(1) For residential areas, per acre—0.004 cu. ft. per sec

(2) For light industrial areas, per acre—0.016 cu. ft. per sec

(3) For heavy industrial areas, per acre—0.021 cu. ft. per sec

(4) Individual plant capacities shall be the determining factor where they exceed the above coefficients.

The City Engineer shall determine the classifications set forth in subparagraphs (1), (2), (3) and (4) of this Section, and shall approve any modification thereof.

7461.1. VELOCITY.

A main line sewer shall be designed to provide a minimum velocity of two (2) feet per second for pipes flowing half full, except that the City Engineer may approve a lower velocity if he finds that such a gradient is unobtainable.

7461.2. GRADES.

The slope of the sewer shall be shown on the plans in feet of fall per l00 feet of horizontal distance expressed as a percentage. Slopes used expressed in percentages shall be divisible, without remainder, by four (4) in the hundredth column. For example, 0.16% complies with this subsection.

7461.3. DEPTH OF SEWER.

The standard depth for main line sewers in residential districts shall be seven and one-half (7-½) feet and in business districts shall be sufficient to provide a house connection depth of ten and one-half (10-½) feet for areas where no ground water is present. Standard depth for six (6) inch house connection shall be six (6) feet in residential districts, and ten and one-half (10-½) feet in business or apartment house districts respectively, below the curb grade at the curb or property line. Where ground water is present the depth for residential main line sewers shall be sufficient to provide for a house connection with a minimum depth of at least five (5) feet below the curb grade at the property line. Exceptions to the above minimum may be made only on approval by the City Engineer.

7462. MANHOLES.

Manhole structures shall be placed in the main line sewer at all changes of alignment and gradient. The maximum distance between structures shall be not more than three hundred fifty (350) feet. All structures shall be designed according to the standard drawings for structures on file in the office of the City Engineer.

7463. LOCATION.

Main line sewers shall be located on the center lines of streets or alleys except on major highways where separate sewers shall be located in the roadway six (6) feet from either curb line. Exceptions to these standard locations may be made only upon approval of the City Engineer.

7463.1. LOCATION OF END STRUCTURES.

End structures shall be located ten (10) feet up grade from the down grade lot line of the last lot served, unless greater length is necessary to serve the property.

7464. HOUSE CONNECTION SEWERS SERVICE.

Six (6) inch house connection sewer service shall be provided in the street for each lot, and the depth shall be sufficient to provide a connection to the lowest and farthest point of the lot with a cover of one foot and a grade of not less than two percent (2%). Any exception to this requirement may be had only upon approval of the City Engineer.

7465. PIPE STRENGTH.

Pipe used for sewers shall be as follows:

(1) Standard strength for sewers not more than ten (10) feet in depth from the surface to invert.

(2) Extra strength for sewers more than ten (10) feet and not more than twenty (20) feet in depth.

(3) Reinforced with concrete cradle or concrete encasement for sewers more than twenty (20) feet in depth.

(4) Encased in concrete or placed inside of steel pipe backfilled with sand for sewers under railways.

(5) Reinforced as required by the City Engineer for sewers under large conduits or other structures.

7466. SOIL CONDITIONS.

Soil conditions, particularly in areas known to have high ground water tables, rock, or filled ground, shall be prospected and the results shown on the profile.

7466.1. SUBSTRUCTURES.

All substructures which will be encountered in the construction or which will be installed as part of the improvement shall be shown and designated on the plan. Large substructures which require special treatment in the design of the sewer shall also be shown on the profile. The permittee shall submit to the City Engineer a statement from each utility company having substructures in the affected area, certifying that the location and size of such structures, as shown on the plans, are the same as shown upon their records.

7467. BENCH MARKS.

A system of bench marks on U.S.G.S. datum and adequate to construct the work shall be shown on the profile.

PART 7. REGULATIONS

7470. ENFORCEMENT.

In enforcing the provisions of this Chapter, the City Engineer shall have the powers of a peace officer.

7471. CONNECTIONS IN UNDEDICATED STREET.

No person shall connect or cause to be connected any sewer which has been or may hereafter be constructed in any street, highway, alley, right of way or other public place prior to the dedication and acceptance of such street, alley, right of way or other public place by the Council on behalf of the public, with any public sewer of the City, unless such sewer first mentioned shall have been laid under the supervision and to the satisfaction of the City Engineer or of the Chief Engineer of the County Sanitation District in which said sewer is located and in accordance with all the provisions of this Chapter.

7471.1. CONNECTION THROUGH ADJOINING PROPERTY.

No connection from any building or other structure shall hereafter be made to any public sewer, if such connection or any portion thereof be in, under or upon any lot other than the lot upon which building or structure is located, except a bungalow court as defined in Section 9220.14. If a lot or parcel of land requiring a sewer connection is so situated that access to the public sewer is not possible except across some other lot or parcel of land, a sewer connection may be placed in a recorded easement which includes the right to lay and maintain such connection and is appurtenant to the lot or parcel of land to be served by such sewer connection.

7472. LIMITATIONS ON USE.

Except as provided by Subsection 7472.2, no person shall place, throw or deposit, or cause or permit to be placed, thrown or deposited in any public or house connection sewer, any dead animal, offal, garbage, fish, fruit or vegetable waste, or other solid matters or materials or obstructions of any kind whatever of such nature as shall clog, obstruct or fill such sewer, or which shall interfere with or prevent the effective use or operation thereof. No person shall cause or permit to be deposited or discharged into any such sewer, any water or sewage or liquid waste of any kind containing chemicals, grease, oils, tars or other matters in solution or suspension, which may, by reason of chemical reaction or precipitation, clog, obstruct or fill the same, or which may in any way damage or interfere with or prevent the effective use thereof, or which may necessitate or require frequent repair, cleaning out or flushing of such sewer to render the same operative, or which may obstruct or cause an unwarranted increase in the cost of treatment of the sewage.

7472.1. COOLING WATER TO STORM DRAIN.

No person shall discharge into the public sewer uncontaminated cooling water or clear wash water that is non-septic or incapable of becoming a public nuisance, where it is possible, as determined by the City Engineer, to dispose of such wastes into a stream channel or storm drain under the provisions of pertinent County ordinances and the regulations of the County Flood Control District. For the purpose of this subsection "storm drain" also includes a storm drain under the jurisdiction of the City.

7472.2. DISCHARGING GARBAGE INTO SEWER.

Garbage resulting from the preparation of any food or drink prepared and served or proposed to be served on the premises may be ground and discharged into the public sewer upon approval of the City Engineer as to the fineness of content determined by an analysis made with United States Standard sieves and based on wet drained weights in accordance with the following:

(1) Not less than 40% shall pass a No. 8 sieve.

(2) Not less than 65% shall pass a No. 3 sieve.

(3) Not less than l00% shall pass a ½-inch screen.

The method of discharge permitted under this Section shall be by flushing with water directly into a trapped outlet into the house plumbing leading to the public sewer.

7472.2.1. SAME. MARKET REFUSE PROHIBITED.

Disposal of ground garbage into the sewer system shall be limited to buildings where garbage is produced by the preparation of food and drink on the premises. No food "plant waste" or "market refuse" shall be ground and disposed of into the sewer system.

7472.2.2. SAME. APPROVAL BY CITY ENGINEER.

Before a permit is issued to connect a garbage grinder to the plumbing system of any building, the applicant must satisfy the City Engineer that the grinder meets the specifications and requirements herein established.

7472.3. WASH RACK WASTE.

No person owning or operating a private or public automobile wash rack shall permit any water or effluent therefrom to flow into any public sewer or house connection sewer unless such wash rack is roofed over and is equipped with a standard sand and grease interceptor approved by the City Engineer.

7472.4. CELLAR AND SHOWER DRAINAGE.

Any cellar drain or any shower in a basement or roofed shower in a yard shall be protected to prevent the admission of sand, detritus, and storm or surface water into the sewer. When necessary in the opinion of the City Engineer, a person shall trap such appurtenances by a sand interceptor constructed in accordance with the provisions of this Chapter.

7472.5. SPECIAL WASTE PIPE CONNECTION.

No person shall connect any special waste pipe from any establishment directly to any public sewer or to any house connection sewer leading thereto. Such special waste pipe shall

discharge into a water supplied sink or similar plumbing fixture, which may in turn be connected to the sewer.

7472.6. STEAM EXHAUST AND BOILER BLOW-OFF.

No person shall cause or permit the exhaust from any steam engine or the blow-off from any boiler to be discharged directly into any public sewer or to any house connection sewer leading thereto. Such exhaust or blow-off shall first be discharged into a water-tight sump which may in turn be connected to the public sewer.

7472.7. CONNECTING CESSPOOLS OR SEPTIC TANKS.

No person shall connect or cause to be connected any cesspool or septic tank to any public sewer or to any house connection sewer leading thereto.

7472.8. BACKWATER TRAPS AND VALVES.

In every case where a plumbing outlet or plumbing fixture is installed or located below the elevation of the curb or property line, an approved type of backwater trap or an approved type of backwater sewer valve shall be installed between the outlet and the public sewer in such a manner as to prevent sewage from flowing back or backing up into any such outlet or plumbing fixture. Every such trap or valve be installed in the basement, or in a box or man-hole of concrete, cast iron, or other material approved by the City Engineer, so that it will be readily accessible at all times. The trap or valve shall be placed only in the drain line serving the fixtures that are located below the elevation of the above mentioned curb or property line and no drainage from fixtures located above this elevation shall pass through such trap or valve.

7472.9. TEMPERATURE OF EFFLUENT.

No person shall discharge into the public sewer effluent of a temperature exceeding one hundred forty (140) degrees fahrenheit.

7472.10. CONTROL OF PH AND BIOCHEMICAL OXYGEN DEMAND.

No person shall discharge alkalis, acids or other corrosive or harmful wastes into the public sewer, unless the Biochemical Oxygen Demand is reduced and the PH is controlled to the extent which the City Engineer finds adequate.

7472.11. TOXIC SUBSTANCES.

All toxic chemical substances shall be retained or rendered acceptable before discharge into the public sewer.

7472.12. PETROLEUM PRODUCTS.

No person shall discharge any petroleum products into the public sewer.

7472.13. DILUTION OF WASTES.

Wastes shall be diluted when and in such amounts as required by the City Engineer.

7472.14. SURFACE WATER PROHIBITED.

No person shall connect or cause or permit to be connected any roof conductor, yard drain or other conduit used for carrying off rain or surface water, with any public sewer or house connection sewer leading thereto. No person shall cause or permit any indirect connection to the public sewer or house connection sewer leading thereto by means of which rain or surface waters are permitted to enter said sewer.

7473. INJURY TO SEWER.

No person shall remove or cause to be removed, or injure or cause to be injured, any portion of the public sewer, or use or cause to be used, or take or cause to be taken, any water from any flushing apparatus for any use whatever.

7473.1. OPENING MANHOLES.

No person shall open or enter, or cause to be opened or entered, any manhole in any public sewer, to dispose of garbage or other deleterious substances or storm or surface waters, or for any other like purpose.

7474. PREVENTION OF OVERFLOW.

Whenever sewage is overflowing from any plumbing fixture due to the backing up of sewage in the public sewer, or due to pressure in the public sewer, or due to any cause whatsoever except a temporary stoppage, the City Engineer may order and require such plumbing fixture to be disconnected and removed and the outlet thereto to be plugged up or capped, or may require that a backwater trap or backwater sewer valve be required to prevent such overflow.

7475. REIMBURSEMENT FOR DAMAGE.

Whenever an industrial sewer connection permittee, by reason of violation of Section 7472 hereof, or any person by reason of violation of Section 7473, causes obstruction, damage or destruction of a public sewer, he shall reimburse the City for the cost of flushing, cleaning, repairing and reconstruction of such sewer made necessary by such violation within thirty (30) days after the City shall render an invoice for same.

PART 8. HOUSE AND INDUSTRIAL CONNECTION SEWER CONSTRUCTION

7480. CONFORMANCE REQUIRED.

Every connection with a public sewer shall be made in the manner and with such materials as are prescribed by this Part.

7481. KIND AND SIZE OF PIPE.

All pipe shall be either clay or cast iron. All clay pipe six (6) inches or more in diameter shall be first class vitrified glazed or unglazed. All clay pipe four (4) inches in diameter shall be first class vitrified clay pipe ceramic glazed in the inside. All cast iron pipe six (6) inches in diameter or less shall be standard cast iron soil pipe. That portion of the pipe extending from the public sewer to the property line shall be not less than six (6) inches in internal diameter. That portion extending from the property line to the house or building, shall be not less than four (4) inches in internal diameter, for house connection sewers laid on a grade of ¼ inch per foot or more and serving one hundred eighty (180) fixture units or less, as shown in the following table:

FIXTURE UNIT EQUIVALENTS	
Kind of Fixture	Units
Drinking Fountains	1
Wash Basins	1
Sinks	2
Bath or Shower	2
Laundry Tubs	2
Wall Urinals	2
Floor Drain	2
Trough Urinal	4
Pedestal Urinal	6
Water Closets or Clinic Sinks	6
Sand Interceptor	6

and not less than six (6) inches in internal diameter for all portions of house connection sewer serving more than one hundred eighty (180) fixture units, with the following exceptions:

(1) For waste lines only, two (2) inch cast iron pipe, not to exceed twenty-five (25) feet in length, may be used to receive the discharge from a vented waste pipe sized two (2) inches or less.

7481.1. REDUCER AND REDUCER TEE.

A six (6) inch by (4) inch reducer shall be inserted in the sewer just inside the property line when the pipe size is changed from six (6) inch to four (4) inch. A six (6) inch by four (4) inch by four (4) inch reducer tee may be used at this location to serve as reducer, test tee and clean-out.

7481.2. CLEAN-OUTS.

Clean-outs shall be placed in every house connection sewer at the junction with the soil pipe at the building; at the junction with the main line sewer, or at the junction of the reducer and the four (4) inch pipe at the property line; at all changes in alignment and grade, above or below the point of change; and at intervals of not to exceed fifty (50) feet in straight runs. Clean-outs in straight runs longer than fifty (50) feet shall be uniformly spaced.

7481.3. CLEAN-OUTS IN VITRIFIED CLAY PIPE.

The clean-out in vitrified clay pipe house connection sewer shall be made by inserting either a "T" or "Y" branch in the line with the clean-out hub placed vertically above the flow line of the pipe. A cap of the same material shall be tightly sealed in the bell of the access or vertical outlet.

7481.4. CLEAN-OUTS IN CAST IRON PIPE.

A clean-out in a cast iron soil pipe house connection sewer shall be made by inserting a single cast iron soil pipe standard "T" or "Y" branch in the line with the cleanout hub placed vertically above the flow line of the pipe. A cast iron ferrule threaded for a three and one-half (3-½) inch plug shall be lead jointed into the bell of the access or vertical outlet. A brass plug three and one half (3-½) inches in diameter having eight (8) threads per inch and weighing approximately two (2) pounds, eight (8) ounces shall be securely screwed into the ferrule.

7481.5. ADAPTER.

Where a cast iron pipe smaller than four (4) inches connects to the four (4) inch house connection pipe, a suitable adapter shall be inserted in the line.

7482. LAYING PIPE.

All pipe shall be laid up grade on an unyielding foundation, true to line and grade and with a uniform bearing under the full length of the barrel of the pipe. Bell and spigot pipe shall be laid with sockets up grade. Suitable excavations shall be made to receive the bells or collars of the pipe. All adjustments to bring the pipe to line and grade shall be made by scraping away or filling in under the body of the proper and not be wedging or blocking.

7482.1. PLACING VITRIFIED CLAY PIPE.

Vitrified clay piping shall not be placed closer than two (2) feet to the exterior wall of any building or closer than twelve (12) inches to the surface of the ground at any point in its course.

7483. DIRECT CONNECTION WITH TRUNK SEWER.

Whenever a house connection sewer is connected directly to a trunk sewer, either through a "Y", "T", saddle, house lateral, or manhole thereof, a "side hand hole trap" (running trap with clean-out of the same size) shall be inserted at the point or points of connection to the house plumbing one (1) foot inside property line, and the required "Y" or "T" clean-out shall be inserted in the line just below the trap.

7484. GRADE OF HOUSE CONNECTION SEWER OUTSIDE PROPERTY.

The alignment and grade of a house connection sewer shall be straight from the public sewer to the street property line and shall be constructed at right angles to said main line sewer, except at cul-de-sacs and other special locations where exceptions may be granted by the City Engineer.

7484.1. GRADE OF HOUSE CONNECTION SEWER INSIDE PROPERTY.

The grade of the house connection sewer inside the property shall be straight from the property line to the last or upper connection, and shall have a fall of not less than ¼ inch per foot, except where otherwise permitted in writing by the City Engineer.

7484.2. UNNECESSARY BENDS OR FITTINGS.

All house connection sewers shall be laid by the most direct route feasible, free of pinched joints, changes of grade or unnecessary bends or fittings.

7485. EXCAVATIONS.

All excavations shall have sufficient width to allow proper workmanship and permit adequate inspection, and shall be supported in the manner set forth in the rules, orders and regulations prescribed by the Industrial Accident Commission of the State. Sheet piling and other timbers shall be withdrawn in such a manner as to prevent caving of the walls of the excavation or disturbance of the sewer pipe.

7485.1. EXCAVATION TUNNELS.

Where sufficient depth is available to permit, tunnels may be used between open cut trenches. Tunnels shall have a clean height of two (2) feet above the pipe, and shall be limited in length to one-half (½) the depth of the trench, but with a maximum length of eight (8) feet.

7485.2. WET OR SOFT GROUND.

Before laying any sewer pipe in an excavation in soft, wet or spongy soil, sufficient gravel or crushed rock to stabilize the subgrade shall be placed in the bottom of the trench.

7485.3. AVOIDANCE OF TREES.

Where any portion of the sewer line other than cast iron soil pipe is located within ten (10) feet of any tree or hedge, the joints of the pipe shall be entirely encased in four (4) inches of Class "A" concrete or 1:2 mortar.

7485.4. DISPOSAL OF EXCAVATED MATERIAL.

Materials excavated in streets and roadways shall be laid alongside of the excavation and kept trimmed up so as to cause as little inconvenience as possible to public travel. Free access must be provided to all fire hydrants, water gates, meters, and private drives, and means shall be provided whereby storm and wastewater can flow in the gutters uninterruptedly. All material excavated in streets and roadways, not required for backfilling, shall be immediately removed and disposed of by the permittee.

7486. WALKING ON OR DISTURBING PIPE.

No person shall walk upon or disturb the pipe in any manner after the joints have been made.

7487. PIPE JOINTS.

All cast iron pipe joints shall be caulked and jointed with pig lead to the satisfaction of the City Engineer. All clay pipe joints shall be made with approved joint materials, to the satisfaction of the City Engineer.

7487.1. TAPPING PUBLIC SEWER.

Whenever it becomes necessary to connect a house connection sewer to a public sewer at a point where no "Y" or "T" branch has been installed in the public sewer, the connection shall be made in accordance with this Part by a Registered Sewer Contractor and in the presence of an inspector.

7487.2. "Y" AND "T" SADDLES.

The "Y" and "T" saddle shall be installed by cutting a hole in the main line sewer pipe and fitting the saddle snugly in place with heavy twelve (12) gauge galvanized, asphalt painted iron wire bound around the main line pipe and the flange of the saddle. The "Y" saddle shall be placed in the side of the main line pipe with the "Y" branch upward at approximately forty-five (45) degrees from the horizontal and so pointed as to direct the flow from the house connection

sewer down stream in the public sewer. The "T" saddle shall be placed in the top of the main line sewer pipe. "T" saddles shall be used only for the construction of chimney pipe.

7487.3. CONCRETE AROUND SADDLE.

After the saddle is in place an imbedment of cement concrete shall be placed under and around the main line sewer pipe and saddle as required for a standard chimney pipe. The inside of the point between the pipe and saddle shall be pointed with 1:2 cement mortar.

7487.4. WORK SHALL BE WATER TIGHT.

Every house connection sewer shall be constructed in such a manner as to withstand, when filled with water, a pressure of not less than two (2) pounds per square inch without leaking at any point.

7487.5. WATER TEST.

Every house connection sewer shall be tested before being approved, in that portion extending from the property line to upper terminus thereof by a static water pressure test, which shall consist of filling the line or lines with water and carrying the level of the column of such water to a height sufficient to develop a pressure of two (2) pounds per square inch at the lower terminus thereof, and in no event to a height of less than four (4) inches above the top of the upper terminal end of such sewer; or, in lieu of such static water pressure test, by a pump test which shall consist of filling such line or lines with water, capping or sealing each upper terminus thereof, and applying an air pump at the property line in such a manner as to furnish an aggregate pressure of two (2) pounds per square inch in the sewer at the lower terminus.

7487.6. TESTING IN SECTIONS.

If by reason of excessive fall in any such house connection sewer, the pressure in a static water pressure test exceeds four (4) pounds per square inch, such sewer may be tested in sections of such length that no such section or any portion thereof will be subjected to a pressure greater than four (4) pounds per square inch.

7487.7. TESTING CEMENT JOINTS.

In the event that any joints of any house connection sewer are cemented with Portland cement mortar, no water tests shall be made thereof until the expiration of not less than twenty-four (24) hours after such joints are made.

7487.8. TESTING COMPOUND JOINTS.

All compound pipe joints shall not be water tested until the expiration of not less than one hour after pouring.

7487.9. CONNECTION MUST MEET TEST.

No house connection sewer shall be approved if any portion thereof, including any fitting, material, work or construction, fails to withstand the test herein provided for by leaking at any point.

PART 9. INTERCEPTORS

7490. RESTAURANT SINKS AND DISHWASHERS.

Every dishwashing sink, dishwashing machine, or other device intended or used for washing dishes and cooking utensils in any establishment serving 100 or more meals per day, shall be connected to the house connection sewer through a grease interceptor as hereinafter provided.

7491. INDUSTRIAL SAND AND GREASE INTERCEPTORS REQUIRED.

Every fowl or animal slaughter house and every meat packing or meat curing establishment and every sausage casing plant and all equipment in any soap factory, tallow rendering, wool pulling, hide tanning or hide curing establishment or other industry from which any considerable

amounts of grease or sand and grease are to be discharged, shall be connected with the public sewer through a grease interceptor or sand and grease interceptor as hereinafter provided.

7491.1. SAME. EXCEPTION.

The provisions of this Part requiring grease interceptors or sand and grease interceptors shall not apply to any private living quarters nor to any eating establishment not equipped to serve one hundred (100) or more meals per day, nor to any establishment or equipment which will not discharge appreciable amounts of grease or sand into the public sewer as determined by the City Engineer.

7491.2. SAME. CAPACITY DETERMINATION.

Capacity to serve one hundred (100) or more meals per day shall be based on a serving or seating capacity of fifteen (15) or more persons or patrons at any one time, determined as follows:

(1) If the entire space that can be used for serving meals or lunches is occupied by tables or by a counter or both, each ordinary table shall be considered as having a capacity for two (2) persons; and each counter having fixed stools in front of each two (2) feet or less of length thereof, shall be considered as having a capacity of one (1) person for each twenty-four (24) inches of length.

(2) If any practicable space that can be used for serving meals or lunches is not occupied by tables or a counter, such space shall be considered as having a capacity of one (1) person for each fifteen (15) square feet of floor area; provided, however, that for drive-in eating places, the frontage where cars can be parked for service shall be considered as having a service or seating capacity of three (3) persons for each eight (8) feet of such frontage.

7492. MINIMUM PERFORMANCE OF GREASE INTERCEPTORS.

No grease interceptor shall be connected with the public sewer which has a rate of flow of less than sixteen (16) gallons per minute and a grease retention capacity of less than eighteen (18) pounds as determined by tests therefor as in this Part provided.

7492.1. MAXIMUM FLOW IN GREASE INTERCEPTORS.

No grease interceptor shall be connected with the public sewer except upon approval by the City Engineer. This restriction shall not apply to a combination sand and grease interceptor designed to serve any establishment of the kind mentioned in Section 7491 or having a floor area exceeding five thousand (5000) square feet.

7492.2. STANDARD PERFORMANCE OF GREASE INTERCEPTORS.

Every grease interceptor required by this Part shall have a rate of flow and a grease retention capacity which are not less than those given in the following table for the total number of fixtures discharging thereinto, to wit:

Total No. of Fixtures	Required Rate of flow	Required Grease Retention Capacity
1	14 Gallons	28 Pounds
2	20 Gallons	40 Pounds
3	25 Gallons	50 Pounds
4	40 Gallons	80 Pounds
Dishwashers With Tank Capacity Over 16 Gals.	25 Gallons	50 Pounds

Provided, however, that any grease interceptor installed in such a manner that the inlet thereto is more than four (4) feet from the nearest outlet of any fixture discharging into such grease interceptor, measured along the pipe carrying the waste, shall have a rate of flow not less than fifty (50) percent greater than that given in the foregoing table.

7493. ONE INTERCEPTOR TO FOUR FIXTURES.

Not to exceed four (4) separate fixtures shall be connected to or discharged into any grease interceptor. For the purpose of this Part the term "fixture" shall mean and include each plumbing fixture, appliance, apparatus or equipment required to be connected or discharged into a grease interceptor by any provision of this Part. A double compartment sink shall be considered one (1) fixture.

7493.1. DISTANCE BETWEEN INTERCEPTOR AND FIXTURE.

No grease interceptor shall be installed farther than twenty (20) feet from any fixture, appliance or equipment discharging thereinto, measured along the pipe carrying the waste to such grease interceptor.

7493.2. GREASE INTERCEPTOR MATERIALS AND COVERS.

Every grease interceptor shall be constructed of cast iron, cast brass, aluminum or other material satisfactory to the City Engineer, and shall have a removable cover of like material. The cover shall be of the same size as and fit snugly into that portion of the grease interceptor in which the grease is collected, and shall be easily removable. No cover shall be fastened in place with any screw, bolt, or nut.

7493.3. WATER JACKETS PROHIBITED.

No water jacketed grease interceptor shall be approved or installed.

7493.4. ACCESSIBILITY OF INTERCEPTORS.

Every interceptor shall be so installed and connected as to be easily accessible for inspection and cleaning, with the cleaning outlet above the level of the weir crest.

7493.5. WATER SEAL.

Every grease interceptor or sand and grease interceptor shall have a water seal of not less than the following depth or amount based on the maximum diameter of standard weight steel or iron pipe which can be screwed into the outlet of the interceptor, to wit:

Diameter of Inlet in Inches	Depth of Water Seal
2 or less	1-½ inches
Over 2 and not over 3	2 inches
Over 3 and not over 4	3 inches
Over 4	4 inches

7494. CLEANING INTERCEPTORS.

Every grease interceptor or sand and grease interceptor shall be cleaned by the operator thereof at least once each day when in use, except as otherwise permitted by the City Engineer.

7494.1. CAPACITY OF SAND AND GREASE INTERCEPTORS.

Every sand interceptor, grease interceptor or sand and grease interceptor shall be of proper design and of adequate size to prevent sand or grease, or sand and grease, from entering the sewer. The size and design shall be as approved by the City Engineer.

7494.2. VENTING INTERCEPTORS.

Every grease interceptor or sand and grease interceptor shall be vented in accordance with provisions of Chapter 2 of Article VIII of this Code.

7495. SAND AND GREASE INTERCEPTOR CONSTRUCTION.

Every sand and grease interceptor shall be constructed of Class "A" cement concrete or other materials approved by the City Engineer. The inside dimensions and thickness of bottom,

side and end walls of such interceptor shall be not less in thickness than approved by the City Engineer.

7495.1. SAND AND GREASE INTERCEPTOR COVER.

Every sand and grease interceptor with a rated flow of more than fifty-five (55) gallons per minute shall have a sectional removable top or cover, capable of sustaining a live load of not less than one hundred (100) pounds per square foot of its entire area.

7496. CELLAR AND SHOWER INTERCEPTORS.

The walls and floor of every sand trap for a cellar drain or shower shall be not less than three (3) inches thick, and each trap shall have a cast iron frame and removable grate cover. The water seal of such trap shall consist of a cast iron soil pipe elbow set vertically downward inside the trap and connected to its waste pipe. A water seal of at least four (4) inches shall be provided and the minimum size of the waste pipe shall be four (4) inches where the trap is not vented. Such sand traps shall be cleaned as often as necessary for their efficient operation and shall be supplied with fresh water to maintain proper seal.

7496.1. RESIDUUM RETENTION.

Every interceptor shall be so constructed and arranged that flowing waste will not wash out or carry away any of the grease or sand previously collected in such interceptor.

7497. TESTING INTERCEPTORS.

The City Engineer may adopt, in writing, such test requirements as he finds necessary to determine the collecting efficiency of various types and kinds of interceptors and to establish the rate and flow, grease or sand retention capacity, or other rating hereof. He shall keep on file in his office open to public inspection by any person a copy of every such requirement. The City Engineer may revise such test requirements from time to time as he deems necessary.

CHAPTER 10. INDUSTRIAL WASTE CONTROL

PART 1. GENERAL PROVISIONS

7000. AUTHORIZATION.

This Chapter is enacted pursuant to the authorization of Article 1, Chapter 5, Division 7, Title 1, of the California Government Code sections 54739 et seq., the Clean Water Act (33 U.S.C. 1251 et seq.) and the General Pretreatment Regulations (40 C.F.R. 403).

7001. PURPOSE.

The purposes of this title are:

(a) To prevent the introduction of pollutants into the public sewer system which may harm or cause interference with the operation of the public sewer system or any publicly owned treatment works;

(b) To prevent the introduction of pollutants to the public sewer system which may not be amenable to treatment and/or may pass through the public sewer system into a natural watercourse, natural body of water, or the atmosphere.

7002. APPLICABILITY.

This Chapter shall apply to all industrial discharges to the public sewer system and shall be interpreted in accordance with the definitions set forth in this Part. If any conflicting provisions regulating industrial discharges are contained in any existing City ordinance, the provisions in this Chapter shall control.

7003. TIME LIMITS.

Any time limit provided in any written notice or in any provision of this title may be extended only by written approval of the City.

7004. FALSIFYING INFORMATION.

No person shall knowingly make false statements, representations, or certifications in any application, record, report, plan or other document provided to the City or required to be maintained pursuant to this Chapter or a permit, or falsify, tamper with, or knowingly render inaccurate any monitoring device or method required under this Chapter. The reports and other documents required to be submitted or maintained by this Chapter shall be subject to the provisions of 18 U.S.C. Section 1001 relating to fraud and false statements, Section 309(c)(4) of the Clean Water Act governing false statements, representations or certifications, and Section 309(c)(6) of the Clean Water Act regarding authorized representatives.

7005. VALIDITY.

If any section of this Chapter is held invalid, the invalidity of that section shall not affect the validity of any other section of this Chapter.

7006. DEFINITIONS.

The following words and phrases, when used in this Chapter, shall have the meaning ascribed to them by this Section unless it is apparent from the context that another meaning is intended:

(a) "Act" means the Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 U.S.C. 1251, et seq.

(b) "Council" means the City Council of the City of Arcadia, California.

(c) "City" means the City of Arcadia.

(d) "County Health Officer" means the Director of Health Services of the County of Los Angeles, or his authorized deputy, agent, representative or inspector.

(e) "Deposit" means the injection, dumping, spilling, leaking or placing of an industrial waste or pollutant placed into or on any land within the boundaries of the City.

(f) "Director" means the Director of Public Works Services of the City of Arcadia, or his authorized deputy, agent, representative or inspector.

(g) "Discharge" or "indirect discharge" means the introduction of pollutants into the public sewer system or a POTW from any nondomestic source regulated under Section 307(b), (c) or (d) of the Act.

(h) "Effluent" means the liquid flowing out of any treatment plant or facility constructed and operated for the partial or complete treatment of wastewater.

(i) "EPA" means the United States Environmental Protection Agency.

(j) "Industrial building" means any building, structure or works which is, or which is designed to be used for the manufacture, processing or distribution of materials, equipment, supplies, food or commodities of any description; or which is used or designed to be used as a school, sanitarium, hospital, penal institution or charitable

institution, together with all appurtenances thereto and the surrounding premises under the same ownership or control.

(k) "Industrial user" or "user" means a source of a discharge.

(l) "Industrial waste" means any and all waste substances, liquid or solid, except domestic wastewater, and includes among other things radioactive wastes and explosive, noxious or toxic gas when present in the wastewater system.

(m) "Industrial waste pretreatment facility" means any works or device for the treatment, storage or control of industrial waste within a site prior to disposal.

(n) "Interceptor" means a device designed and installed so as to separate and retain deleterious, hazardous or undesirable matter from wastes.

(o) "Interference" means a discharge which, alone or in conjunction with a discharge or discharges from other sources:

(1) Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and

(2) Causes a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of wastewater sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent state or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including the state regulations contained in any sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, and the Marine Protection, Research and Sanctuaries Act.

(p) "National Categorical Pretreatment Standard" or "pretreatment standard," means any regulations containing pollutant discharge limits promulgated by the EPA in accordance with Sections 307 (b) and (c) of the Clean Water Act which apply to a specific category of user and which appear in Title 40 CFR Chapter I, Subchapter N, Parts 405-471.

(q) "New source" means any building, structure, facility or installation from which there is or may be a discharge of pollutants, the construction of which commenced after the publication of proposed pretreatment standards under Section 307(c) of the Act applicable to such source.

(r) "NPDES permit," means a National Pollution Discharge Elimination System permit issued pursuant to Section 402 of the Act.

(s) "Off-site disposal" means the disposal or removal of industrial wastes or other materials regulated by this Chapter to a site other than the premises where the wastes were generated, whether or not such site is under the control of the industrial waste disposal permittee.

(t) "On-site disposal" means the management, treatment, control or disposal, other than to the public sewer system, of industrial wastes or other materials within the premises named in an industrial waste disposal permit, whether or not the wastes were generated at the permitted site or by the permittee.

(u) "Ordinance" means an ordinance of the City of Arcadia.

(v) "Pass through" means a discharge which exits the POTW into the waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation.)

(w) "Permit" means an industrial waste discharge permit issued pursuant to Part 3 of this Chapter.

(x) "Permittee" means the person to whom a permit has been issued.

(y) "Pollutant" means something that causes pollution, including but not limited to dredged spoil solid waste, incinerator residue, wastewater, screenings, sludge, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, and industrial, municipal, agricultural garbage, or any substance regulated under this Chapter.

(z) "Pollution of underground or surface waters" means affecting the chemical, physical, biological and radiological integrity of such waters by man-made or man-induced activities.

(aa) "Publicly-owned treatment works" or "POTW" means a treatment works as defined by Section 212 of the Act, which is owned by a state or municipality (as defined by Section 502(4) of the Act). This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of wastewater. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW treatment plant. For the purpose of this Division, "POTW" shall also include any sewers that convey wastewaters to the POTW from outside the municipality by contract.

(bb) "Public sewer system" means all facilities owned, controlled or operated by City for the purpose of collecting and conducting wastewater to a POTW for treatment and disposal, including: collector sewers conducting wastewater from the individual laterals serving the originating premises; trunk sewers owned, controlled, or operated by the County of Los Angeles within the boundaries of the City that convey wastewater from tributary collector sewers; and any facilities appurtenant to the foregoing.

(cc) "Pretreatment" means the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater to a less harmful state prior to or in lieu of discharging or otherwise introducing such pollutants into a POTW or other disposal facility. The reduction or alteration can be obtained by physical, chemical or biological processes or process changes by use of an industrial waste treatment facility or other means, except as prohibited by 40 CFR Section 403.6(d).

(dd) "Rainwater diversion system" means any device designated to prevent the entry of stormwaters into the public sewer system or other waste disposal or treatment systems, and to redirect storm flows to appropriate areas.

(ee) "Seepage pit" means an excavation in the ground which receives the discharge of a septic tank, so designed as to permit the effluent from the septic tank to seep through its bottom and sides.

(ff) "Sewer disposal" means the disposal of industrial wastes or other materials into the public sewer system by means of a direct connection to the public sewer system from the premises named in an industrial waste disposal permit.

(gg) "Sewage pumping plant" means any works or device used to raise wastewater from a lower to a higher level or to overcome friction in a pipeline.

(hh) "Standard Industrial Classification" or "SIC" means a classification pursuant to the Standard Industrial Classification Manual issued by the Executive Office of the President, Office of Management and Budget, 1972, as amended.

(ii) "Trunk sewer" means a sewer under the jurisdiction of a public entity other than the City of Arcadia.

(jj) "Uncontrolled discharge" means any discharge, intentional or accidental, occurring in such a manner that the discharger is unable to determine or regulate the quantity, quality or effects of the discharge.

(kk) "Waste disposal facility" means any dump, solid waste disposal site, transfer station, sanitary landfill, land reclamation project, incinerator (except household incinerators and wood refuse to be burned in a suitable furnace), or other similar site or facility which is used or intended to be used for the acceptance for transfer, salvage or disposal of rubbish, garbage or industrial waste, whether liquid or solid.

(ll) "Wastewater" means any liquid or water-borne pollutants including, but not limited to, domestic waste, nondomestic waste, sanitary waste or industrial waste.

(mm) "Water pollution control plant" means any works or device for treating wastewater except any industrial waste pretreatment facility, and except any private wastewater disposal system covered by the Plumbing Code set out at Chapter 2 of Article VIII of this Code.

PART 2. INDUSTRIAL DISCHARGE PROHIBITIONS

7007. DISCHARGE OF OFFENSIVE OR DAMAGING SUBSTANCES PROHIBITED.

A person shall not discharge or deposit or cause or suffer to be discharged or deposited at any time or allow the continued existence of a deposit of any material which may create a public nuisance, or menace to the public health or safety, or which may pollute underground or surface waters, or which may cause damage to the public sewer system or any storm-drain channel or public or private property.

7008. DEPOSIT OF CERTAIN SUBSTANCES PROHIBITED.

A person shall not place, throw or deposit, or cause or permit to be placed, thrown or deposited in the public sewer system any dead animal, offal, or garbage, fish, fruit or vegetable waste, or other solid matters, or materials or obstructions of any kind whatever of such nature as shall clog, obstruct or fill the public sewer system, or which shall interfere with or prevent the effective use or operation thereof. A person shall not cause or permit to be deposited or discharged into the public sewer system any water or wastewater, or liquid waste of any kind containing chemicals, greases, oils, tars or other matters in solution or suspension, which may clog, obstruct or fill the same, or which may in any way damage or interfere with or prevent the effective use thereof, or which may necessitate or require frequent repair, cleaning out or flushing of the public sewer system to render the same operative, or which may obstruct or

cause an unwarranted increase in the cost of treatment of the wastewater, or which may introduce into a POTW any pollutant(s) which cause pass through or interference.

7009. NATIONAL CATEGORICAL PRETREATMENT STANDARDS. COMPLIANCE REQUIRED.

Upon the promulgation of mandatory National Categorical Pretreatment Standards (NCPS) for any industrial subcategory, the NCPS, if more restrictive than limitations imposed by this division, shall apply to all industrial users. The Director may impose a phased compliance schedule to insure that affected industrial users meet the NCPS. Failure to meet the phased compliance schedule may result in permit suspension or revocation as provided in this Chapter. Those dischargers subject to NCPS shall comply with all reporting requirements in accordance with the General Pretreatment Regulations for Existing and New Sources of Pollution (Title 40, Code of Federal Regulations, Part 403). Facilities subject to this division and regulated by joint permits issued in conjunction with other agencies may meet the requirements of this Section as set forth in such joint permit and by furnishing such evidence of compliance as may be required by the Director.

7010. LOCAL PRETREATMENT STANDARDS.

The Director may establish uniform minimum standards, and criteria for the application of such standards, for pretreatment of specific industrial waste discharges. The provision of this Section shall not prohibit the Director from requiring additional pretreatment to accomplish the objectives of this Chapter.

7011. LOCAL LIMITS ESTABLISHED BY POTW.

No person shall introduce or cause to be introduced wastewater to the public sewer system or a POTW that exceeds specific local limits which have been developed by the receiving POTW. Such local limits shall not apply where more restrictive limitations are imposed by permit or National Categorical Pretreatment Standards.

7012. DILUTION PROHIBITED.

No person shall discharge or cause to be discharged any water or other substance added for the purpose of diluting any industrial waste to achieve compliance with limitations imposed by the provisions of this Chapter.

7013. TOXIC SUBSTANCES.

All toxic chemical substances shall be retained or rendered acceptable before discharge into the public sewer system.

7014. CONTROL OF pH.

No person shall discharge acids or alkali materials into the public sewer system until the pH has been controlled to a level not less than 6.0 nor at or higher than a level which the Director finds excessive. No discharge shall have any corrosive or detrimental characteristics that may cause injury to wastewater treatment, inspection or maintenance personnel or may cause damage to structures, equipment or other physical facilities of the public sewer system.

7015. TEMPERATURE RESTRICTIONS.

A person shall not discharge into the public sewer system effluent exceeding a temperature of 140 degrees Fahrenheit or which will exceed 104 degrees Fahrenheit at the point of entry into the POTW treatment plant.

7016. COOLING WATER.

No uncontaminated cooling water shall be discharged into the public sewer system.

7017. GROUND GARBAGE.

Garbage resulting from the preparation of food may be discharged into the public sewer system if ground to a fineness sufficient to pass through a three-eighths-inch (3/8″) screen. Excessive or unnecessarily large quantities of water shall not be used to flush ground garbage into the public sewer system.

7018. CONSTRUCTION OF NEW INDUSTRIAL BUILDINGS. INFORMATION REQUIRED.

Every person applying for a permit pursuant to the provisions of the Building Code, for construction of a new industrial building, or for an addition or alteration to an existing industrial building, shall furnish to the Director such plans, information, data, statements or affidavits as the Director may require for determination of the nature and quantity of industrial waste involved and the facilities to be provided for the proper disposal thereof, including discharges to the public sewer system.

7019. SAME. BUILDING PERMIT ISSUANCE PREREQUISITES.

An application for a permit pursuant to the Building Code to construct a new industrial building or for an addition or alteration to an existing industrial building will not be approved until provision has been made for the installation of such pretreatment facilities and disposal methods or both as, in the opinion of the Director, are necessary to carry out the provisions and intent of this Chapter.

7020. RAINWATER DIVERSION SYSTEMS. AUTHORIZED.

Stormwater runoff shall not be discharged into the public sewer system unless authorized by the Director. The Director may authorize the installation of a rainwater diversion system in

lieu of roofing to prevent the discharge of stormwaters to the public sewer system where roofing is impractical, in conflict with existing laws or regulations, may create a hazardous or unsafe working condition, or may cause undue hardship on the applicant, providing the Director finds that:

(a) The applicant has applied for an industrial waste discharge permit and has submitted all plans and specifications of the proposed system;

(b) The system provides for continuous twenty-four (24) hour protection to the public sewer system;

(c) The system meets minimum operational and component standards as may be established pursuant to this Chapter; and

(d) Pollution of underground or surface waters, nor damage to any streets, gutters, storm drains, channels or any public or private property will not be caused by the diverted storm flows.

PART 3. INDUSTRIAL WASTE DISCHARGE PERMITS

7021. PERMIT REQUIRED. INDUSTRIAL WASTE DEPOSITS OR DISCHARGES.

A person shall not maintain a deposit of industrial waste, or discharge or deposit or cause or suffer to be discharged or deposited, except as otherwise provided in this Chapter, any industrial waste or effluent in or upon any incorporated area of the City, the public sewer system, or into streams or bodies of surface or subsurface water, or storm drains, or flood control channels, where the same is deposited upon or may be carried through or upon any incorporated area of the City without first securing, in the manner provided in this Part, a permit from the Director to do so, and at all times having a valid permit therefore, unless otherwise exempted by the provisions of this Part. A separate permit shall be required for each connection discharging industrial wastes to the public sewer system.

7022. MAINTENANCE OF EXISTING, UNUSED FACILITY FOR INDUSTRIAL WASTE DEPOSIT, DISCHARGE, OR STORAGE.

A person shall obtain a permit from the Director to maintain an existing but unused facility designed or formerly used for the deposit, discharge or storage of industrial wastes. The annual inspection fee for such permit shall be the same as that for Inspection Fee Class A.

7023. USE OF PUBLIC PROPERTY. PERMIT REQUIRED.

Whenever facilities for the discharge of industrial waste connect to structures, or encroach on the property or rights-of-way owned or controlled by a public agency, the Director may either:

(a) Require that the applicant obtain a property-use permit, license, easement or other right to use such properties prior to the issuance of a permit to dispose of industrial waste; or

(b) Issue such permit subject to the execution of a property-use permit, license, easement or other right to use such properties.

7024. PERMIT. NOT REQUIRED.

No permit shall be required for the disposal of waste which consists only of domestic wastewater into septic tanks, cesspools or seepage pits constructed pursuant to the provisions of the City Plumbing Code. No permit shall be required for discharges resulting from garbage grinders powered by motors of one horsepower or less.

7025. APPLICATION. INFORMATION REQUIRED.

Any person requiring a permit under the provisions of this Part shall make written application therefore to the Director, giving such information as the Director may require. The Director may require from the applicant, in addition to the information furnished on the printed form, any additional information including detailed plans and specifications which will enable the Director to determine that the proposed discharge or deposit and plan of operation complies with the provisions of this Chapter and other applicable laws and ordinances.

(a) The Director shall provide printed application forms for the permit required by this Part, indicating thereon the information to be furnished by the applicant. In conjunction therewith, the applicant may be required to furnish the following:

(1) The name and address of the applicant;

(2) The name and address of the discharger;

(3) The address or location of the premises where the discharge will take place;

(4) The Standard Industrial Classification (SIC) of the discharger;

(5) Information with respect to constituents and characteristics of wastewater proposed to be discharged, including but not limited to those referred to in this Chapter. Sampling and analysis shall be performed in accordance with procedures established by the EPA pursuant to Section 304(g) of the Act and contained in 40

CFR, Part 136, as amended, and by laboratories certified by the State of California. In the absence of a State certification process, the Director may certify a laboratory to perform necessary sampling and analysis;

(6) Time and duration of the proposed discharge or discharges;

(7) Average daily and five-minute peak wastewater flow rates, including daily, monthly and seasonal variation, if any;

(8) Each byproduct waste of the discharges by type, amount and rate of production;

(9) Site plans, floor plans, mechanical and plumbing plans and details to show all sewers, storm drains, connections and appurtenances by their size, location and elevation;

(10) Description of activities, facilities and plant processes on the applicant's premises, including all pollutants which could be discharged;

(11) Detailed plans showing pretreatment facilities, sampling facilities, uncontrolled discharge containment facilities and operating procedures;

(12) Identification of the nature and concentration of any pollutant located at the premises of the discharger (and/or applicant if different) if that pollutant is prohibited from discharge under this Chapter, or any proposed discharge which is regulated by any applicable local limit, plus a statement specifying whether the specific limitations set forth in such local limits are being met, and, if not, what operation and maintenance (O&M) or pretreatment is proposed by the discharger to cause compliance;

(13) The shortest time scheduled by which the discharger shall provide the necessary additional pretreatment or O&M, if additional pretreatment or O&M will be required to meet the regulations in this Chapter. Any completion date in such a proposed schedule shall not be later than the compliance date established by the applicable regulations. The schedule shall provide for reporting increments in progress in the form of dates for commencement and completion of major events leading to the construction and operation of additional pretreatment necessary for the discharger to meet the applicable regulation (e.g., hiring an engineer, completing preliminary and final plans, executing contract for major components, commencing construction, completing construction);

(14) Each product of the discharger by type, amount and rate of production;

(15) Type and amount of raw materials processed by the discharger (average and maximum per day);

(16) Number of employees, hours of operation of plant and hours of operation of the proposed pretreatment system;

(17) Copies of any current NPDES permit, South Coast Air Quality Management District permit, Regional Water Quality Control Board permit, Fire Department business plan, Health Department license and State Department of Health Services permit for the subject premises;

(18) The name, business address and motor vehicle driver's license number of the authorized representative;

(19) Any other information deemed by the Director to be necessary to evaluate the permit application. The application shall be signed under penalty of perjury by the authorized representative of the discharger.

(b) The Director may require that an application for a permit to dispose of industrial waste shall be accompanied by suitable plans showing the proposed method of collection, treatment and disposal, and a permit will not be issued until such plans or required modification thereof have been checked and approved by the Director.

(c) The Director may submit the application or plans, or both, to any department of the City or any other public agency for comment or recommendation.

(d) For the purpose of this Section, the Director may utilize a joint permit application form under agreement established with the County Sanitation Districts of Los Angeles County.

7026. EXPIRATION OF APPLICATION.

An application for an industrial waste disposal permit for which no permit is issued within one hundred and eighty (180) days following the date of application submittal shall expire by limitation. The application and other information submitted may thereafter be returned to the applicant or destroyed. The Director may extend the time for action by the applicant for a period not to exceed one hundred eighty (180) days upon written request by the applicant showing that circumstances directly related to the processing of the application but beyond the control of the applicant have prevented action from being taken. In order to renew action on an application after expiration, the applicant shall resubmit all necessary application forms and other data and pay a new application fee and plan review fee. No application shall be extended more than once.

7027. PERMIT. ISSUANCE CONDITIONS.

If it appears from the application and supporting information submitted for any permit required by this Part that the proposed disposal, discharge, or storage of industrial waste complies with the provisions of this Chapter and all other applicable laws and ordinances, the Director, upon receipt of the fees hereinafter required, shall issue a permit to the applicant if all the following conditions have been satisfied:

(a) Sufficient capacity exists in the public sewer system to accommodate the proposed discharge of industrial waste;

(b) All fees or deposits required by this Chapter have been paid;

(c) Recommendations and conditions of City departments or other public agencies, as contained in their reports, if any, have been met. The Director may waive this provision except as to the requirements of required by the County Health Officer;

(d) The material to be discharged or deposited does not or will not, in the opinion of the County Health Officer, constitute a potential public nuisance or menace to the public health and safety, and will not violate other provisions of the Health and Safety Code of the State of California or of the Act;

(e) The material to be discharged or deposited does not or will not involve disposal of any toxic materials or chemicals in such manner as to cause pollution of any stream, watercourse, lake or other body of water, or underground or surface water storage reservoir, either natural or artificial;

(f) The material to be discharged or deposited does not or will not damage or adversely affect the public sewer system, or any storm drain, channel, or public or private property;

(g) Under existing circumstances and conditions it is necessary and reasonable so to dispose of such waste matter.

7028. PERMIT CONTENTS.

(a) The Director may issue a permit containing limitations or conditions, or both, or may modify an existing permit by the addition of or elimination of such conditions and limitations as may be necessary to accomplish the purposes of this Chapter.

(b) Permits for the discharge of industrial wastes to the public sewer system shall state the maximum permissible rate of discharge.

(c) The Director may impose a permit expiration date not to exceed a term of five (5) years where the Director determines such a date is necessary to ensure compliance with all applicable laws and regulations governing the disposal of industrial wastes. Application for renewal of such a permit shall be made no later than one hundred and eighty (180) days prior to the expiration date of the existing permit.

7029. GRANT OR DENIAL. NOTICE TO APPLICANT.

(a) The Director shall either grant or deny a permit within thirty (30) days after all fees, as provided in this Chapter, have been paid and upon the receipt of the application complete with all supplemental data.

(b) The Director shall immediately notify the applicant whenever he grants a permit, denies a permit, grants a permit subject to special conditions or limitations, or adds to or eliminates any conditions or limitations of an existing permit.

7030. HEARING. TIME LIMIT FOR REQUEST.

Within thirty (30) days after receipt of notice of denial of a permit, granting of a permit subject to conditions or limitations, or the addition of conditions or limitations to an existing permit, the applicant or permittee may file with the City Council a written demand for a public hearing. If he does not do so, he shall be deemed to have consented to the action of the Director, and such action shall be final.

7031. NOTICE REQUIREMENTS.

Within thirty (30) days after an applicant has requested a public hearing pursuant to this Part, the City Clerk shall give notice of the time and place of the public hearing to the applicant,

the Director, and the County Health Officer when matters pertaining to public health are involved, at least ten (10) days in advance of the date set for such hearing.

7032. HEARING. CITY COUNCIL DETERMINATION.

After a public hearing under this Part, at which the applicant is entitled to present evidence, the City Council may take one of the following actions:

(a) Confirm the action of the Director in denying a permit or issuance of a permit subject to special conditions and limitations;

(b) Instruct the Director to issue a permit without conditions or limitations, or with such special conditions and limitations as the Council may designate.

7033. FAILURE TO OBTAIN PERMIT DEEMED VIOLATION.

A person who is required to, but does not have a permit and who has been notified by the Director that he is required to obtain a permit pursuant to the provisions of this Chapter shall immediately submit to the Director an application and fee as required by this Chapter for such permit, and shall rectify and cure all such violations. Failure to do so shall constitute a wilful violation of this Chapter.

7034. CHANGE OF FACTS. NOTIFICATION TO DIRECTOR.

Every person having a permit issued pursuant to this Chapter shall within five (5) days notify the Director in writing of any change in any facts which are required to be stated in an application for a permit.

7035. REVISED PERMIT. APPLICATION REQUIRED.

A permittee shall submit to the Director an application for a revised industrial waste disposal permit and obtain approval prior to effecting any of the following waste discharge conditions:

(a) Change in method of disposal;

(b) Change in disposal point for nonsewered discharge;

(c) Change in discharge volume affecting treatment or storage facilities; or

(d) Change in character of the wastewater discharge.

7036. SUCCESSOR-IN-INTEREST. NEW PERMIT REQUIRED.

The successor in title or interest of a premises for which a permit has been previously granted, shall file with the Director a new permit application, in accordance with the provisions of this Chapter, within thirty (30) days after assumption of such title or interest, and shall furnish plans and data as may be required by the Director. If it appears from the application and data that the succeeding operation and disposal practices comply with the provisions of this Chapter, the Director, upon receipt of the fees hereinafter required, shall issue a permit.

7037. INTERIM PERMIT. ONGOING DISCHARGE.

Upon receipt of an application for a permit for an ongoing discharge, an interim permit may be issued by the Director to allow the continuation of such discharge during the application review period, subject to conditions to be imposed by the Director, where the Director determines that the continuation of such discharge does not appear to be detrimental to the public health and safety.

7038. PERMIT NOT TRANSFERABLE FROM ONE LOCATION TO ANOTHER.

Permits issued under this Chapter are not transferable from one location to another, and discharge of wastes shall be made strictly in accordance with all provisions contained in the permit, at the location specifically designated therein.

7039. MONITORING AND SAMPLING. PRENOTIFICATION.

Any permittee required by the Director, by permit or otherwise, to engage in periodic monitoring or sampling of a discharge shall notify the Director by telephone at least forty-eight (48) hours in advance of any monitoring or sampling to be done. Prior to the commencement of any sampling or monitoring, the Director may request that the permittee furnish the Director a split sample and all supporting data. Each permittee shall submit to the Director, certified under penalty of perjury by the permittee, its monitoring and sampling reports or other requested data.

7040. CANCELLATION OF PERMIT. CONDITIONS.

(a) A person owning or operating premises containing industrial waste treatment or disposal facilities operated under a valid permit issued under the provisions of this Chapter may file a written request with the Director to cancel such permit upon termination of operations. Upon receipt of such a request, the Director shall investigate and cancel the permit if he determines that:

  (1) All industrial-waste producing operations have ceased;

  (2) Any industrial waste treatment facilities have been rendered inoperable to prevent further use;

  (3) All permits to abandon or disconnect, as may be required by the Plumbing Code, have been obtained;

  (4) Any industrial wastes remaining on the premises have been removed to a legal point of disposal;

  (5) All fees required by this Chapter due up to the date of request for cancellation have been paid.

(b) Should the Director deny a request for a permit cancellation, the owner or operator of any facilities required by the permit shall maintain these facilities in good operating condition and pay all fees required by this Chapter to maintain a valid permit.

PART 4. ENFORCEMENT

7041. INVESTIGATION OF COMPLAINTS. CORRECTION OF VIOLATIONS.

Notwithstanding any exception mentioned in this Chapter, the Director shall promptly investigate every complaint charging violation of any of the provisions of this Chapter, and shall take action to correct any violation discovered.

7042. DEPOSITS CREATING MENACE TO PUBLIC HEALTH. NOTICE.

When the Director finds that industrial waste or effluent, or any other material, is being discharged or deposited in such manner as to create a menace to the public health, he may serve notice of violation upon the person owning or operating the premises, describing the conditions, and requiring the prompt correction thereof.

7043. NOTICE OF VIOLATION.

(a) The Director may serve notice of violation upon the person owning or operating premises describing the conditions and requiring prompt correction thereof, when he finds that:

(1) Industrial waste, effluent or any other material is being maintained, discharged or deposited in such a manner as to create, or if allowed to continue will create, any one or more of the following conditions:

(A) A public nuisance,

(B) A menace to the public safety,

(C) Pollution of underground or surface waters,

(D) Adverse effect or damage to the public sewer system, or any storm drain, channel, or public or private property; or that:

(2) The permittee has failed to conform with conditions or limitations of any permit issued in accordance with this Chapter;

(3) The industrial waste disposal permit was issued in error, or on the basis of incorrect information supplied, or in violation of any ordinance, law or regulation.

(b) Failure to comply with such notice shall constitute a wilful violation of this Chapter.

7044. SUSPENSION OF PERMIT. CONDITIONS.

When the conditions described in Section 7043 are so aggravated that immediate cessation of operation is necessary and the Director so finds, he shall suspend the permit. He shall serve notice of such suspension on the permittee. The Director may also suspend a permit if objectionable conditions listed in a notice to correct, served in accordance with Section 7043, are not corrected within the time specified in such notice.

7045. SUSPENSION OF PERMIT. NOTICE.

The Director shall immediately notify the permittee of suspension of permit or make a recommendation to the City Council that such permit be revoked, or both.

7046. DISCONTINUANCE OF DISCHARGE OR DEPOSIT REQUIRED.

A person whose permit has been suspended or revoked, or who has been notified of violation, as provided in this Chapter, shall immediately discontinue the deposit or discharge of industrial waste, wastewater or effluent, or use of any described facility, and shall not resume such deposit or discharge, or use of the described facility, until the permit has been modified or reinstated, or both, by the Director or Council as hereinafter provided. Failure so to do shall constitute wilful violation of this Chapter.

7047. RIGHTS OF PERMITTEE. NOTICE OF VIOLATION OR SUSPENSION.

Within the time specified in the notice of violation or suspension, the permittee shall:

(a) Correct and remedy the conditions so specified, to the satisfaction of the Director; or

(b) File with the Council a denial that all of the conditions so specified exist, request a public hearing, and correct the conditions which the permittee admits do exist; or

(c) File with the Council a denial that any of the conditions so specified exist and request a public hearing.

7048. REINSTATEMENT OF SUSPENDED PERMIT.

The Director shall reinstate a suspended permit when all violations are corrected and all fees required by this Chapter have been paid.

7049. NOTICE REQUIREMENTS.

Within thirty (30) days after a permittee has requested a public hearing pursuant to this Part, the City Clerk shall give notice of the time and place of the public hearing to the permittee, the Director and the County Health Officer when matters pertaining to public health are involved, at least ten (10) days in advance of the date set for such hearing.

7050. HEARING BY CITY COUNCIL.

After a public hearing under this Part, at which the permittee may present evidence, the City Council may take any of the following actions:

(a) Continue the suspension of the permit pending correction of objectionable conditions by the permittee;

(b) Reinstate the permit conditioned upon the correction of objectionable conditions by the permittee within a specific time;

(c) Deny that objectionable conditions exist and reinstate the suspended permit;

(d) Revoke the suspended permit on any of the following grounds:

(1) Failure of the permittee to correct conditions as required by the Director,

(2) Conditions which would justify the denial of a permit,

(3) Fraud or deceit was employed in the obtaining of a permit,

(4) Any other violation of this Chapter or of any permit, license or exception granted hereunder.

7051. DISCONNECTION FOLLOWING PERMIT REVOCATIONS.

If a permit is revoked, the Director may disconnect from the public sewer system any connection for the discharge of industrial waste that was connected to the public sewer system pursuant to such permit.

7052. PUBLIC NOTIFICATION OF SIGNIFICANT VIOLATIONS.

At least annually, the Director may provide public notification, in the largest daily newspaper published in the municipality in which a POTW is located, of industrial users of the POTW which, during the previous twelve (12) months, were significantly violating applicable pretreatment standards or other pretreatment requirements, as provided in 40 CFR 403.8. The Director need not provide such notification if a notice meeting all applicable EPA requirements has been published by the POTW operator. The cost of such public notification shall be collected by the Director from the discharger causing such violation and/or notification.

PART 5. FEES AND CHARGES

7053. INDUSTRIAL WASTE AND DISPOSAL PERMIT. APPLICATION FEE. SCHEDULE.

The Director shall collect a permit application fee, as set and established by resolution of the City Council, for each industrial waste disposal permit application received. Such fee shall be separate and apart from any fee or deposit collected for industrial waste plan review or imposed under provisions of the Plumbing Code, or other City ordinance or regulation, or by reason of any license, agreement or contract between the applicant and other public agency. Such application fee shall not be refundable.

7054. INDUSTRIAL WASTE PLAN REVIEW. FEE SCHEDULE.

The Director shall collect a plan review fee, as set and established by resolution of the board, for each set of plans received for any single site or location. Such fee shall be separate and apart from any fee or deposit collected for any permit or inspection or imposed by any other City ordinance or regulation. Such plan review fee shall be applied to any submittal required by the Director pursuant to this Chapter and shall not be refundable even though the submittal is rejected or the project terminated.

7055. ANNUAL INSPECTION FEE. SCHEDULING AND BILLING.

For each industrial waste disposal permit issued by the Director, an annual inspection fee as established and determined by the City Council, shall be due and payable to the Director annually, in advance, on a billing date to be determined by the Director.

7056. CLASSES OF BUSINESSES, PROCESSES AND INDUSTRIES FOR PLAN REVIEW AND INSPECTION FEE.

Plan review and inspection classes shall be established by resolution of the City Council. The classes for any business, process, industry or residential use not specifically established by the City Council shall be determined by the Director using the City Council's class determinations as a guide.

ARTICLE VII. - PUBLIC WORKS
CHAPTER 10. - INDUSTRIAL WASTE CONTROL

PART 5. FEES AND CHARGES

7057. WASTE WATER SAMPLING AND ANALYSIS FEE.

The Director may charge the discharger a fee as established by resolution of the City Council for each analysis performed by or on behalf of the Director on wastewater samples taken from the discharger.

7058. SAME. ANNUAL INSPECTION FEES AND MISCELLANEOUS SERVICE FEE. PAYMENT TIME. PENALTIES FOR DELINQUENCY.

All inspection fees, wastewater sampling and analysis fees, and applicable miscellaneous fees required by this Part shall be due and payable by the due date indicated on any invoices issued. Fees not paid within thirty (30) calendar days from the billing date shall be considered delinquent. Delinquent fees shall be subject to a penalty fee as established by resolution of the board. Permits for which the inspection fee is delinquent for ninety (90) days or more are subject to suspension as provided for in this Chapter.

PART 6. INDUSTRIAL WASTE PRETREATMENT

7059. INSTALLATION REQUIRED.

Industrial waste pretreatment facilities shall be installed whenever the Director finds as a fact that such facilities are required to safeguard the public health; prevent pollution of streams or bodies of surface or underground water; prevent pollution of water wells or storage reservoirs, either natural or artificial; prevent damage or increased maintenance costs in the public sewer system; prevent damage to public or private property; prevent a public nuisance; or to comply with applicable regulations of any other public agency.

7060. PRETREATMENT. STANDARDS AND CRITERIA.

The Director may establish uniform minimum standards and criteria for the application of such standards for pretreatment of specific industrial waste discharges. The provisions of this section shall not prohibit the Director from requiring additional pretreatment to accomplish the objectives of this Chapter.

7061. FACILITIES REQUIRED.

Installation of industrial waste treatment facilities may not be required if the Director determines that:

(a) The industrial waste is prohibited from being discharged to the public sewer system by this Chapter or other applicable ordinances or regulations;

(b) The affected industry has guaranteed to separately dispose of any objectionable waste to legal points of disposal;

(c) Adequate facilities are to be provided for the collection and containment of the prohibited industrial wastes, and that provisions have been made to prevent intentional or accidental discharge of such wastes to the public sewer system, ground surface,

surface or underground water supplies, rivers, channels, storm drains, public streets or gutters;

(d) An application for industrial waste disposal permit has been filed in accordance with this Chapter; and

(e) All fees required by this Chapter have been paid.

7062. INSTALLATION. ACCESS OF INSPECTION AND MAINTENANCE.

Interceptors or other industrial waste pretreatment facilities shall be so installed and constructed that they shall be at all times easily accessible for inspection and maintenance.

7063. SEPARATION OF DOMESTIC AND INDUSTRIAL WASTES.

All domestic wastes from restrooms, showers, drinking fountains, etc., shall be kept separate from all industrial wastes until the industrial wastes have passed through any required industrial waste pretreatment facilities.

7064. OPERATION AND MAINTENANCE.

All industrial waste pretreatment facilities or water pollution control plants, and all appurtenances thereto, under jurisdiction of this Part shall be maintained, by the owner or person having jurisdiction of the property affected, in good operating condition and in a safe and sanitary condition at all times. All devices and safeguards which are required by this Part for the operation thereof, and all records of such operation, shall be maintained in good order.

7065. INSPECTION AND TESTING.

The Director may make tests of industrial wastes, periodic inspections of water pollution control plants and industrial waste pretreatment facilities to determine whether such treatment plants or facilities are maintained in accordance with the requirements of this Part. The Director may also make periodic tests on samples of wastewater, industrial waste or effluents obtained at the point of discharge or deposit to determine whether such discharges or deposits are made in accordance with the provisions of this Chapter.

7066. RIGHT OF ENTRY FOR INSPECTION AUTHORIZED.

(a) The Director shall be permitted at all reasonable hours to inspect water pollution control plants and industrial waste pretreatment facilities, and to enter and inspect the place, enclosure or structure where industrial wastes or effluent are discharged or deposited.

(b) A person shall not refuse to permit, and shall not hinder or obstruct in any way, any reasonable inspection or investigation by the Director of such industrial waste pretreatment facilities or any industrial waste deposits, discharges or effluent.

ARTICLE VII. - PUBLIC WORKS
CHAPTER 10. - INDUSTRIAL WASTE CONTROL

PART 5. FEES AND CHARGES

7067. TEST MANHOLES OR OTHER STRUCTURES.

The Director may require the installation of a test manhole or other structure through which all industrial waste shall pass. Such structure shall be so designed that flows may be measured and samples readily obtained therefrom.

(Chapter 10 added by Ord. 2129 adopted by 9-19-00)

ATTACHMENT 4.1

COLOR CODED MAP

7422. EXISTING HOUSE CONNECTION SEWERS.

The following requirements shall apply to existing house connection sewers:

(1) If the construction of a new house connection sewer is to include any portion of an existing drain to a cesspool, septic tank or other means of disposal, such construction shall be included and accepted only when it meets all the requirements for new house connection sewers, except that the materials of construction of the existing portions, used and undisturbed, may not be rejected because they are not new.

(2) If an existing house connection sewer is added to or altered because of a change of use, such sewer shall be made to conform to the requirements of this Chapter which apply to new construction.

(3) No inspection and test shall be required for the undisturbed existing portion of a house connection sewer constructed under permit from the office of the City Engineer, but any additions thereto or alterations or extensions thereof, shall in all respects conform to the requirements of this Chapter.

7423. SAND AND GREASE INTERCEPTORS.

Every grease interceptor or sand and grease interceptor or other appurtenance constructed and connected to the public sewer shall conform to the requirements of this Chapter therefor, unless otherwise specifically excepted.

7424. MAINTENANCE OF HOUSE CONNECTION SEWER.

All house connection sewers, industrial connection sewers, and appurtenances thereto, now existing or hereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Chapter for the operation thereof shall be maintained in good working order.

7425. MAINTENANCE OF INTERCEPTORS AND OTHER FACILITIES.

The requirements contained in this Chapter covering the maintenance of sanitary grease interceptors, sand interceptors, sand and grease interceptors, or other appurtenances, shall apply to all such facilities now existing or hereafter constructed. All such facilities shall be maintained by the owners thereof in a safe and sanitary condition, and all devices or safeguards which are required by this Chapter for the operation of such facilities shall be maintained in good working order. This Section shall not be construed as permitting the removal or nonmaintenance of any devices or safeguards on existing facilities unless authorized in writing by the City Engineer.

7426. NON-RESPONSIBILITY OF CITY.

The City shall in no event be responsible for the maintenance or repair of or for removal of obstructions in or to any house connection sewer, industrial connection sewer interceptor or other sanitary sewer facility other than sewer main line. (Added by Ord. 1130 adopted 7-18-61)

PART 3.
PERMITS AND PLANS

7430. PERMIT REQUIRED.

No person, other than persons specifically excepted by this Chapter, shall commence, or do or cause to be done, or construct or cause to be constructed, or use or cause to be used, or alter or cause to be altered, any public sewer or main line sewer, or house connection sewer, or industrial connection sewer, or sand and grease interceptor, or sand interceptor, or grease interceptor, or other similar appurtenance without first obtaining a permit from the City Engineer. Such a permit is not required for installation of a sand and grease interceptor or sand interceptor or grease interceptor, if a permit has

ATTACHMENT 4.3

30, 90 AND 180 DAY PRIORITY MAINTENANCE LIST

Oct-14

30 DAY HOT SPOTS PRIORITY MAINTENANCE LIST

FOOTHILL SIPHON	306MH010-011	INSPECT/FLUSH	2X8"X108'
HUNT. DR/CITY HALL SIPHON	508MH015-016	INSPECT/FLUSH	2X10"X120'
HUNT. DR/HOSP. SIPHON	SIPHON/DROP 409MH007-006	INSPECT/FLUSH	2X12"X270'
COLORADO/ SAN JUAN SIPHON		INSPECT/FLUSH	2X10"X90'
EL MONTE / NAOMI SIPHON		INSPECT/FLUSH	1X10"X255'
OLD RANCH/HUNT. DR		RELIEF LINE INSPECT	
ELKINS/HIGHLAND OAKS	DROP 603MH007	INSPECT/FLUSH	
ARCADIA/BALDWIN	DROP 310MH028-016 340', 028--027 301'		
GATEWAY/HUNT. DR	608MH031 - 025 355', 025 - 060 121',031-030 222',030-029 58', 608MH031-032 144',032-033 70', 033-034 254'		
FOOTHILL (EAST OF SAN CARLOS)			

30, 90 AND 180 DAY PRIORITY MAINTENANCE LIST

90 DAY HOT SPOTS PRIORITY MAINTENANCE LIST

LIVE OAK/SANTA ANITA	**FROM 514MH033-E TO 614MH002, W TO 514MH028, N TO 514MH031, S TO 514MH034**		
SANTA ANITA/HUNT. DR	**508MH028[DROP] N TO 508MH027, S TO 508MH029, W TO 508MH023**		
SECOND/HUNT. DR	**608MH042 S TO 608MH043, NW TO 608MH024, NE TO 608MH026, INSPECT 608MH027,028,041**		
GATEWAY/HUNT. DR	**608MH031-[DRO] N TO 608MH060, W TO 608MH026, E TO 608MH034**		
SANTA ANITA/DUARTE RD	**510MH043-036, 510MH036 DROP TO 035-034 SOL, 510MH 036-033 SOL**		
HUNTINGTON	**508MH018-028**	**1373'**	
SANTA ANITA	**508MH028-030**	**606'**	
SANTA ANITA	**514MH031-034**	**687'**	
LIVE OAK	**514MH028-614MH022**	**762'**	
SECOND	**608MH004-009MH030**	**2055'**	
HUNTINGTON	**608MH042-036**	**1406'**	
GATEWAY	**608MH024-031**	**476'**	

30, 90 AND 180 DAY PRIORITY MAINTENANCE LIST

180 DAY HOT SPOTS PRIORITY MAINTENANCE LIST

SUNSET/HUNTINGTON (SEASEMENT)	209MH005-006	606'	
FAIRVIEW	210MH005-009	753'	
ARCADIA	210MH007-011	730'	
ARCADIA	210MH022-310MH028 (DROP)	2867'	
GOLDEN WEST	210MH025-032	423'	
FOOTHILL	306MH006-010	1080'	
FOOTHILL/BALDWIN	300MH014-016	150'	
ARBOLADA/FOOTHILL	**406MH007-006**	**245'**	
BALDWIN	**310MH030-311MH026**	**130'**	
BALDWIN (W/ ALLEY)	**310MH042-311MH023 (DROP)**	**504'**	
CAMINO REAL	311MH026-411MH005	2827'	
LAS TUNAS	314MH017-414MH004	2041'	
NAOMI	411MH002-004	659'	
LEMON	412MH007-008	310'	
LEMON	412MH031-032	350'	
LONGDEN (HOLLY AVE TO BALDWIN)	412MH011-056	381'	
ROSEMARIE	413MH010-006	234'	
WOODRUFF	413MH022-019	324'	
OAKVIEW	508MH004-010	1360'	
SIERRA MADRE	504MH017-025	715'	
HYLAND	505MH007-006	289'	
RANCHO	**506MH007-(DROP)**	**550'**	
WHEELER	508MH033-608MH003	893'	
FOOTHILL	606MH026-028	592'	
SECOND	606MH028-040	1017'	
S/O FOOTHILL ALLEY (GREASE)	606MH049-053	1318'	
S/O FLORAL ALLEY	606MH059-063	1300'	
FIFTH (GREASE)	606MH008-058	501'	

30, 90 AND 180 DAY PRIORITY MAINTENANCE LIST

FIFTH	608MH036-609MH054	3297'	
DUARTE	609MH054-610MH090	582'	
DUARTE	610MH006-003	846'	
SIXTH	710MH001-711MH011	2998'	
EIGHTH	710MH022-046	1713'	
TENTH (DROP)	710MH052-711MH050	2140'	
EL SUR	710MH055-810MH009	957'	
EIGHTH	710MH019-032	761'	
CAMINO REAL	711MH027-025	245'	
SIXTH	712MH010-713MH006	268'	
SIXTH	713MH026-030	410'	
SIXTH	713MH031-024	350'	
LIVE OAK	713MH029-028	320'	
MAYFLOWER	810MH002-010	1422'	
SHORT	810MH007-005	475'	
FALLEN LEAF	306MH006-005-001, 306MH004	600', Drop 150'	
Live Oak/ Baldwin (Inspections) new manhole			
Live Oak/ Second	614MH009-009-007	800'	
Live Oak-Colorado Way to El Monte			
Golden West-Hunt. Dr to Fairview			
Oakview to Clark			

LEGEND:
BOLD FONT = EARLY START

INDEMNIFICATION AGREEMENT
BETWEEN
THE CITY OF ARCADIA
AND
ARCADIA UNIFIED SCHOOL DISTRICT

1. PARTIES AND DATE.

This Indemnification Agreement ("Agreement") is made this 7th day of June, 2011, by and between the the City of Arcadia (the "City"), a California municipal corporation and Arcadia Unified School District (the "District"), a California public school district duly organized and existing under Chapter 1 of Division 3 of Title 2 of the Education Code of the State of California. The City and the District are sometimes hereinafter referred to collectively as the "Parties."

2. RECITALS.

WHEREAS, on August 18, 1953, City has reserved and accepted unto itself an easement (the "Easement") at any time, or from time to time, to construct, operate, maintain, repair, replace, remove, or renew, sanitary sewers and storm drains and necessary structures pertinent thereto, in, on, upon, over and across real property formerly known as El Monte Avenue and lying Northerly of a line 50 feet North measured at right angles and parallel to the center line of Duarte Road and lying Southerly of a line 50 feet South measured at right angles and parallel to the center line of Campus Drive (formerly known as Huntington Place) and lying 80 feet across which is currently part of the campus of Arcadia High School (the "Property") as depicted in Exhibit A attached hereto and incorporated herein; and

WHEREAS, the City previously constructed a sewer line on the Property ("Sewer Line"); and

WHEREAS, effective August 18, 1953, the District has held and maintained fee simple ownership of the Property, with the City retaining its easement rights on the Property; and

WHEREAS, several decades ago, the District constructed buildings ("District Buildings") on the Property and over a portion of the Sewer Line; and

WHEREAS, both Parties recognize the potentially negative effects from building structures over a sewer line such as this Sewer Line, such as potential damage to the buildings resulting from the location of the Sewer Line underneath structures and the use of the Sewer Line easement by the City, and potential damage to any accompanying infrastructure and the Sewer Line itself; and

WHEREAS, the District now wishes to construct another building ("Student Services Building") on the Property and over the Sewer Line. In order to accommodate the construction of the Student Services Building, and to increase the integrity of the Sewer Line, District has, with the City's approval, removed a portion of the existing Sewer Line and replaced it with approximately one hundred (100) feet of Class 2 Ductile Iron Pipe with Mechanical Joints ("District Installed Pipe") under what will be the new Student Services Building ("Project"); and

WHEREAS, the City is willing to allow the construction of the Student Services Building on, the Property in consideration for the District providing certain assurances and indemnities to the City concerning the Sewer Line and the City's Easement.

NOW, THEREFORE, in consideration of the promises and covenants set forth below, the Parties agree as follows:

3. TERMS.

3.1 Scope of Indemnification. The District shall, at it own expense, and with legal counsel mutually selected by the City and the District, fully defend, indemnify and hold harmless the City, its officials, officers, employees, volunteers and agents, from and against any and all claims, suits, causes of action, fines, penalties, proceedings, damages, injuries or losses of any name, kind or description, and specifically including, without limitation, attorneys' fees, ("Liabilities"), arising in any way out of the location of the Student Services Building over the District Installed Pipe and over the City's Easement, to the extent such rights are impaired by the location of the Student Services Building over the Sewer Line. The District's indemnification obligation shall include, but not be limited to, actions to attack, set aside, void, or annul the City's sewer right and easement, arising as a result of the location of the Student Services Building and associated infrastructure over the District Installed Pipe and over the City's Easement. The City shall promptly notify the District of any such claim, action or proceeding, and shall cooperate fully in the defense of such claim, action, or proceeding. The District hereby waives any potential claim it might otherwise assert against the City for any damage or injuries caused to the District's Buildings, property, real property, employees, students, volunteers, contractors, agents, and invitees resulting from the location of the Student Service Buildings over the Sewer Line unless caused by the City's active negligence. The District's obligations under this Section 3.1 shall not be limited to the amount of insurance coverage that may be available to the District, and shall not otherwise be restricted or confined by the presence or absence of any policy of insurance held by the City or the District. The District shall also, at its own expense, fully reimburse the City for any damages or losses of any name, kind or description to the Sewer Line or injuries incurred in the process of repairing the Sewer Line caused by any action taken by the District, or by any employee, student, contractor, volunteer, invitee or agent of the District or any damage to the Sewer Line caused by the

location of the Student Services Building and associated infrastructure over the Sewer Line.

3.2 Sewer Line Repairs and Maintenance. Nothing in this Agreement limits in any way, and the District acknowledges, the City's rights with respect to the Easement and access to the Sewer Line under the Property in order to, among other things, provide service to and repair the Sewer Line at any time. The City shall maintain the Sewer Line by providing, at a minimum, annual cleaning to the pipe. The City shall also provide a video inspection of the Sewer Line, commonly referred to as a Closed Circuit Television (CCTV) Inspection, at a minimum of every two years. The annual cleaning and CCTV inspection shall be at no cost to the District except to the extent damages are caused directly or indirectly by the District's buildings or accompanying structures. The District shall reimburse the City, at the District's own expense and in full, for all costs, both direct and indirect, incurred by the City in making necessary repairs to the Sewer Line caused by any action taken by the District or by any employee, student, contractor, volunteer, invitee or agent of the District or any damage either directly or indirectly caused by the District's buildings and accompanying infrastructure, either those presently located on the Sewer Line or those that will be located on the Sewer Line in the future. The District shall not be responsible for direct or indirect costs that arise from other uses unrelated to District's use or caused by the District's other buildings and accompanying infrastructure. Repairs shall be deemed necessary in the City's sole and absolute discretion and costs shall be borne based on joint determination by the City and District of responsibility as shown by investigation and CCTV pictures. The City will promptly inform the District about the need for repairs and their required date of completion. The District shall then, at its own expense, provide the necessary access for the City to reach the Sewer Line, if access is impaired due to the location of District Buildings. The District shall provide reasonable access to the Easement and Sewer Line for reasonable Sewer Line maintenance, repair and replacement with sufficient notice from the City. The City shall determine, in its sole and absolute reasonable discretion, if the District has provided sufficient access to the Sewer Line. Nothing in this Agreement limits in any way, and the City acknowledges the District's rights with respect to the Property,

3.3. District Installed Pipe. The District Installed Pipe is cut into a one-hundred (100) foot section of existing clay pipe sewer line. This District Installed Pipe, which has been installed by the District, with the approval and inspection of the City, and located underneath the Project as described or depicted in Exhibit B and Exhibit C attached hereto and incorporated herein, consists of one-hundred (100) feet of Class 2 Ductile Iron Pipe with Mechanical Joints. The District shall be responsible for the repair of only the District Installed Pipe due to breakage caused by the location of the Student Services Building, and for no other portion of the Sewer Line. Repairs shall be deemed necessary in the District's sole and absolute reasonable discretion. In no event shall the District have the responsibility to remove clogs from, or maintain any portion of, the Sewer Line, including the District Installed Pipe.

3.4. Future Sewer Line Tie-ins Prohibited. The City is prohibited from allowing any increased use of the existing Sewer Line in any manner, and, especially, the City is prohibited from allowing tie-in to any existing sewers which connect to the Sewer Line. This includes, but is not limited to, any future development north of Campus Drive. This development will not be allowed to tie-in to the Sewer Line, but, instead, will be required to construct a new sewer line.

3.5 Survival. The District's obligations, as set forth above, shall survive the completion or abandonment of construction of the new building and other improvements by the District or the issuance of a certificate of occupancy with respect thereto. Such obligations shall be perpetual in duration and shall continue until such time as the Indemnified Parties are no longer at risk for any one or more of the liabilities.

3.6 Interpretation. The provisions of this Agreement are intended by the Parties to be interpreted and construed to provide the fullest protection possible under the law to the each of the parties hereto. Further, all obligations and liabilities under this Agreement are to be paid by the District as they are incurred.

3.7 Attorneys' Fees and Costs. In the event any action or suit is brought by a party against another party by reason of the breach of any of the covenants or agreements set forth in this Agreement, or any other dispute between the parties concerning the Easement, each party shall be responsible for its own attorney's fees and costs.

3.8 Entire Agreement. Except for the easement dated August 18, 1953, this written document contains the entire agreement of the Parties and supersedes any prior oral or written statements or agreements between the Parties. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing by the Parties.

3.9 Notices. All notices required or necessary under this Agreement shall be given in writing to the following addresses or such other addresses as the parties may designate by written notice:

To City: City of Arcadia
240 W. Huntington Drive
Arcadia, CA 91007
Attention: City Manager

To District: Arcadia Unified School District
234 Campus Drive
Arcadia, CA 91007
Attention: Superintendent

All notices shall be considered effective 72 hours after placement in the U.S. Mail, first class, postage pre-paid.

3.10 Waiver. No waiver of any default shall constitute a waiver of any other breach or default, whether of the same or of any other covenant or condition. No waiver, benefit, privilege or service voluntarily given or performed by either party shall give the other Party any contractual right by custom, estoppel or otherwise.

3.11 No Assignment. This Agreement shall not be voluntarily assigned by either Party hereto.

3.12 Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original and which collectively shall constitute one instrument.

3.13 Captions. The captions of the various articles and paragraphs of this Agreement are for convenience and ease of reference only, and do not define, limit, augment, or describe the scope, content, or intent of this Agreement or any part or parts of this Agreement.

3.14 Incorporation of Recitals. The Recitals constitute a material part of this Agreement and are incorporated by this reference as though fully set forth herein.

3.15 Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be an original but all of which shall constitute one and the same instrument.

3.16 Authority. Each of the undersigned represents and warrants that he or she is duly authorized to execute and deliver this Agreement and that such execution is binding upon the entity of which he or she is executing this document.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, this Agreement has been executed by the Parties as of the date first written above.

CITY OF ARCADIA

By: _____
Donald Penman
City Manager

Attest:

By: _____
City Clerk

Approved as to Form:

By: _____
Stephen P. Deitsch
City Attorney

ARCADIA UNIFIED SCHOOL DISTRICT

By: _____
Christina Aragon
Assistant Superintendent,
Business Services

Board Approval: 06/14/11

Date signed: 06/22/11

EXHIBIT A

(Description or Depiction of District Installed Pipe)

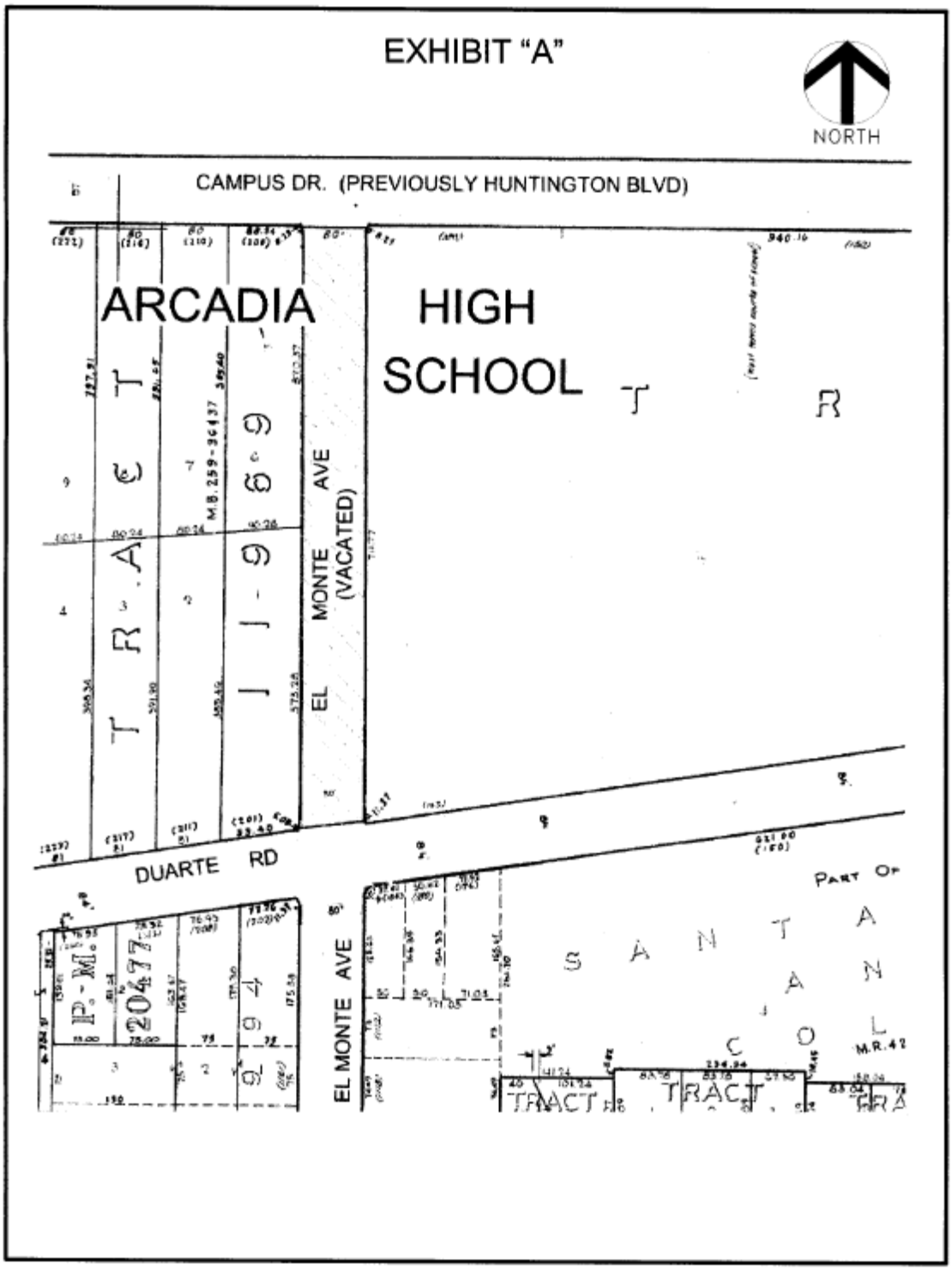
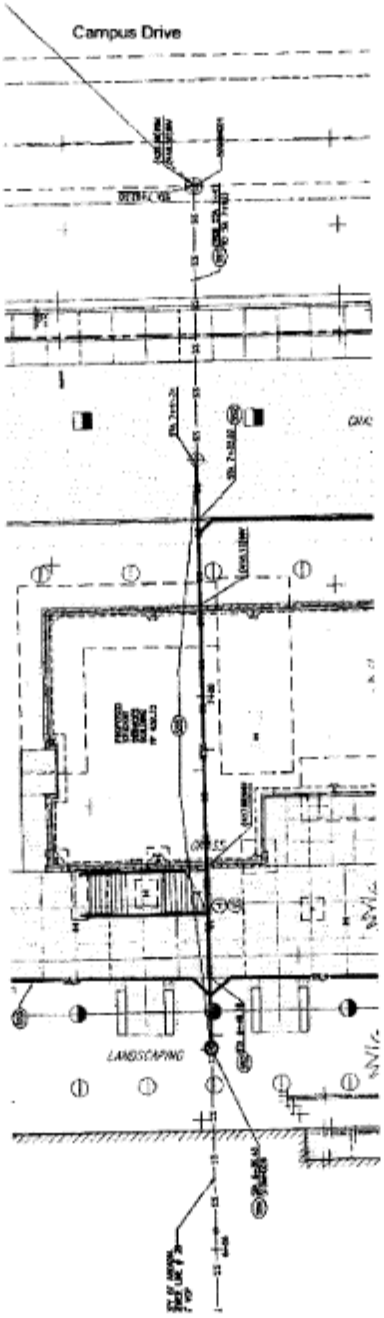


EXHIBIT "A"
NORTH
CAMPUS DR. (PREVIOUSLY HUNTINGTON BLVD)
ARCADIA
HIGH
SCHOOL
TRACT 9969
M.B. 259-36/37
EL MONTE AVE (VACATED)
DUARTE RD
P.M. 20477
EL MONTE AVE
PART OF
SANTA ANITA COLONY
M.R. 42
TRACT
TRACT

EXHIBIT B

(Sewer Construction Plan)

EXHIBIT "B"



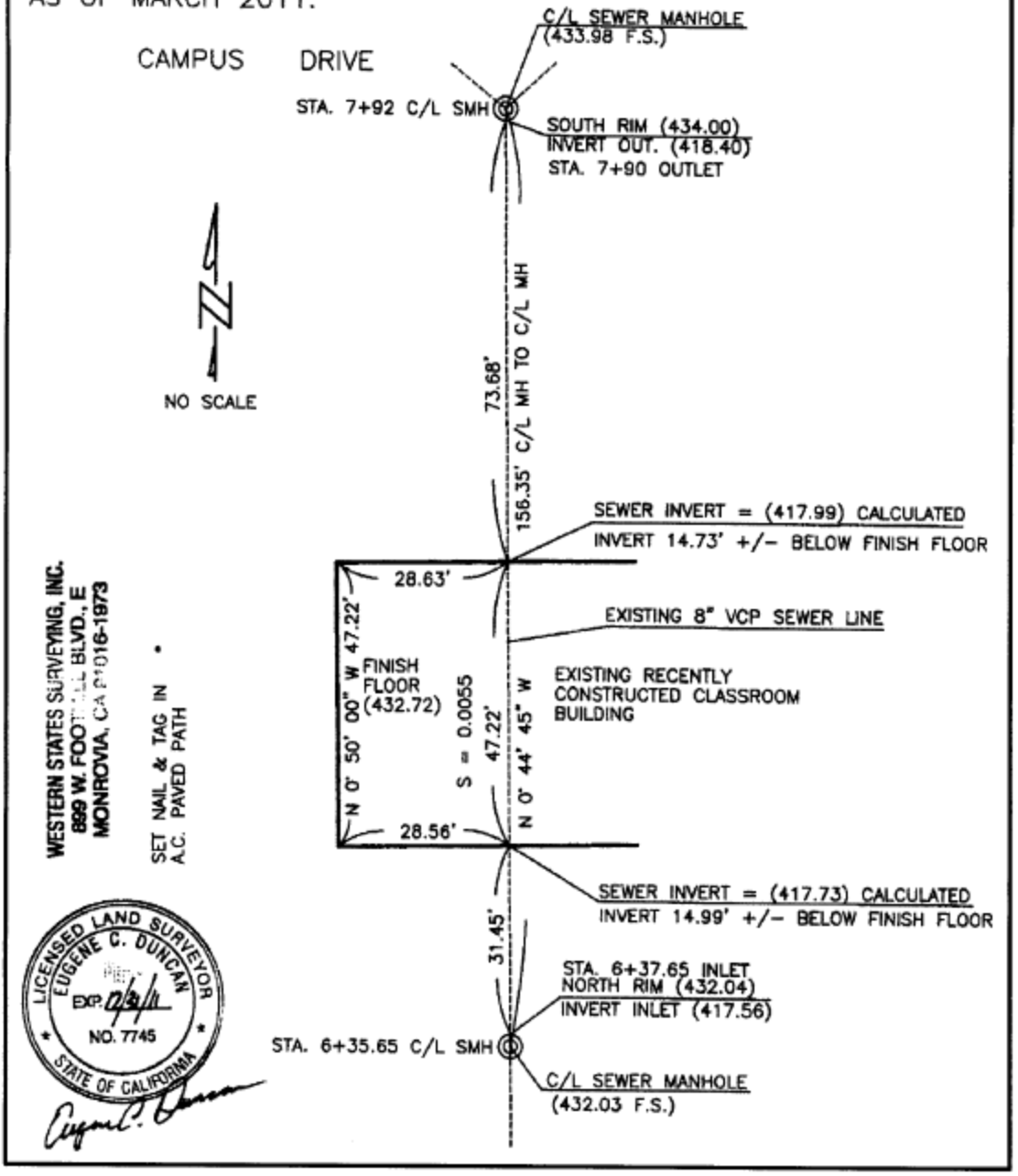
NORTH

EXHIBIT C

(Sewer Line Survey)

EXHIBIT "C"

"AS–BUILT" OF EXISTING SEWER LINE IN RELATION TO RECENTLY CONSTRUCTED CLASSROOM BUILDING AT ARCADIA HIGH SCHOOL, AS OF MARCH 2011.



ATTACHMENT 4.5

VEHICLES AND EQUIPMENT PARTS

	Equipment and Parts	Quantity	Amount Needed
3/4 Ton Chevy Pick Up Truck	Sand Bags	10	
#80022	Roll of Plastic	1	
	Miscellaneous Hand Tools	-	As needed
	Caution Tape	1	
	2" Trash Pump	1	
	Intake Hose	1	
	Discharge Hose	1	
	P.P.E	-	As needed
	Gloves	10	
	Eye Wear	2	
	Safety Vest	2	
	Hard Hat	1	
	Ear Plugs	10	
	Sanitizer	2	
	Fire Extinguisher	1	
	Cones	7	
	Map Book	1	
Small Trailor (Single Axle)	3" Trash Pump	1	
At Service Center	15' Intake Hose	1	
	150' Discharge Hose	1	
	Sand Bags- filled	40	
	Roll of Plastic	1	
	2" x 10" planks	2	
Gas Powered Easement	300' Hose	1	
Machine on Trailor	100' Hose	1	
#80101	Hand Rodding Machine on Trailor	1	
	300' of Rods attached to hand rodding machine	1	
	Miscellaneous Cutting Heads	-	As needed

VEHICLES AND EQUIPMENT PARTS

Supplies in Shop	600' of Lateral Main Line Hose	1	
	Portable Honda Generator	1	
	20' Lead Hose	3	
	80' Extension Hoses	2	
	Hudson Sprayers for Sanitizing	1	
	4 Galllon of Sanitzer	1	
	Assorted Shovels and Brooms		
	2" Sump Pump	1	
	Large Two Axle Emergency Response Trailor At Orange Resevoir	1	
Notes			
Home Lite Generators (3 total, each one contains the following)	3" Trash Pump with Discharge and intake hoses	1	
	2" Trash Pump with Discharge and intake hoses	1	
	25' Extra Aluminum Ladders	2	
	Filled Sandbags	100	
	Bale Unfilled Sandbags	1	
	Portable Flood Lights	6	
	Round Point Shovels	7	
	Square Point Shovels	7	
	Folding Chairs	17	
	25' Extension Cords	2	
	Portable Heater	1	
	6' Tables	2	
	Fire Extinguishers	2	

3/4 Ford Pick Up Truck	3" Trash Pump	1	
#80067	20' Intake Hose	1	
	400' at 3" Discharge hose	1	
	Stihl Leaf Blower	1	
	Chain Saw	1	
	Fire Extinguisher	1	
	Truck Flashlight (continued charging)	1	
	P.P.E	-	As needed
	Hard Hat	1	
	Safety Vest	2	
	Rubber Boots	2	
	Leather Gloves	2	
	Eye Protection	2	
	Ear Plugs	10	
	First Aid Kit	1	
	3 Gallon Disinfectant	3	
	Spray Cans Green Paint	1	
	Glass Cleaner	1	
	Hand Tools: Screw Driver, wrench, bolt cutters	-	As needed
	Shovels	1	
	Broom	1	
	Pribar	2	
	Cones	8	
	Debrit Grabber	1	
	Hook	1	
	Hose Release	1	

VEHICLES AND EQUIPMENT PARTS

Vac-Con #80229	Combination Sewer Jetter Vacuum Truck	1	
	700' Hose	1	
	Sand Bags	20	
	Plastic	1	
	Map Book	1	
	P.P.E	1	

Vac-Con #80105	Combination Sewer Jetter Vacuum Truck	1	
	700' Hose	1	
	Sand Bags	20	
	Plastic	1	
	Map Book	1	
	P.P.E	1	

7460. - CONFORMANCE OF WORK AND PLANS.

All plans required under the provisions of this Chapter for the construction of main line and house connection sewers shall conform to the standards of design prescribed by this Chapter. Plans required for all other sewer construction or installation under the provisions of this Chapter shall conform to the standards of design on file in the office of the City Engineer.

7461. - SIZE OF MAIN LINE SEWER.

Main line sewer pipe shall have an inside diameter of not less than eight (8) inches and shall have sufficient capacity to carry sewage from the area tributary thereto when computed upon the following basis:

(1) For residential areas, per acre—0.004 cu. ft. per sec

(2) For light industrial areas, per acre—0.016 cu. ft. per sec

(3) For heavy industrial areas, per acre—0.021 cu. ft. per sec

(4) Individual plant capacities shall be the determining factor where they exceed the above coefficients.

The City Engineer shall determine the classifications set forth in subparagraphs (1), (2), (3) and (4) of this Section, and shall approve any modification thereof.

7461.1. - VELOCITY.

A main line sewer shall be designed to provide a minimum velocity of two (2) feet per second for pipes flowing half full, except that the City Engineer may approve a lower velocity if he finds that such a gradient is unobtainable.

7461.2. - GRADES.

The slope of the sewer shall be shown on the plans in feet of fall per l00 feet of horizontal distance expressed as a percentage. Slopes used expressed in percentages shall be divisible, without remainder, by four (4) in the hundredth column. For example, 0.16% complies with this subsection.

7461.3. - DEPTH OF SEWER.

The standard depth for main line sewers in residential districts shall be seven and one-half (7-½) feet and in business districts shall be sufficient to provide a house connection depth

of ten and one-half (10-½) feet for areas where no ground water is present. Standard depth for six (6) inch house connection shall be six (6) feet in residential districts, and ten and one-half (10-½) feet in business or apartment house districts respectively, below the curb grade at the curb or property line. Where ground water is present the depth for residential main line sewers shall be sufficient to provide for a house connection with a minimum depth of at least five (5) feet below the curb grade at the property line. Exceptions to the above minimum may be made only on approval by the City Engineer.

7462. - MANHOLES.

Manhole structures shall be placed in the main line sewer at all changes of alignment and gradient. The maximum distance between structures shall be not more than three hundred fifty (350) feet. All structures shall be designed according to the standard drawings for structures on file in the office of the City Engineer.

7463. - LOCATION.

Main line sewers shall be located on the center lines of streets or alleys except on major highways where separate sewers shall be located in the roadway six (6) feet from either curb line. Exceptions to these standard locations may be made only upon approval of the City Engineer.

7463.1. - LOCATION OF END STRUCTURES.

End structures shall be located ten (10) feet up grade from the down grade lot line of the last lot served, unless greater length is necessary to serve the property.

7464. - HOUSE CONNECTION SEWERS SERVICE.

Six (6) inch house connection sewer service shall be provided in the street for each lot, and the depth shall be sufficient to provide a connection to the lowest and farthest point of the lot with a cover of one foot and a grade of not less than two percent (2%). Any exception to this requirement may be had only upon approval of the City Engineer.

7465. - PIPE STRENGTH.

Pipe used for sewers shall be as follows:

(1)
Standard strength for sewers not more than ten (10) feet in depth from the surface to invert.

(2)
Extra strength for sewers more than ten (10) feet and not more than twenty (20) feet in depth.

(3)

Reinforced with concrete cradle or concrete encasement for sewers more than twenty (20) feet in depth.

(4)

Encased in concrete or placed inside of steel pipe backfilled with sand for sewers under railways.

(5)

Reinforced as required by the City Engineer for sewers under large conduits or other structures.

7466. - SOIL CONDITIONS.

Soil conditions, particularly in areas known to have high ground water tables, rock, or filled ground, shall be prospected and the results shown on the profile.

7466.1. - SUBSTRUCTURES.

All substructures which will be encountered in the construction or which will be installed as part of the improvement shall be shown and designated on the plan. Large substructures which require special treatment in the design of the sewer shall also be shown on the profile. The permittee shall submit to the City Engineer a statement from each utility company having substructures in the affected area, certifying that the location and size of such structures, as shown on the plans, are the same as shown upon their records.

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 information[2] 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/malhaz.nsf/$defaultview and http://w3.calema.ca.gov/operational/malhaz.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 CIWQS[3] 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 Program[4] 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

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 **any volume** resulting from an enrollee's sanitary sewer system failure or flow condition that: • 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 **1,000 gallons or greater** resulting from an enrollee's sanitary sewer system failure or flow condition that **do not** 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 **within a privately owned sewer lateral** connected to the enrollee's sanitary sewer system or from other private sewer assets. PLSDs that the enrollee becomes aware of may be voluntarily 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)	• 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)	• 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)	• 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)	• 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

MUTUAL AID / EMERGENCY CONTACTS

City of Monrovia
Contact: Utility Supervisor – Shawn Igoe Phone Number: (626) 256-8292

City of Sierra Madre
Deputy Public Works Director – Chris Cimino Phone Number: (626) 335-6615

ATTACHMENT 6.3

CALCULATING SPILLS

For spill volume calculations, use the following examples or call a Public Works Services Engineer for assistance.

The purpose of this report is to take the mystery out of calculating spills. Ninety-eight percent of all spills can be calculated using the two examples discussed in this section.

I use the orifice equation when I try to figure out the volume of a spill. Understanding the orifice equation is not as complex as it may sound. If you know the diameter of the hole (i.e., pick hole or annular space between the ring and cover) and the height at which the fluid is coming out of the hole, then you can figure the flow out of that hole.

The equation is: Install Equation Editor a
click here to view equat

Where Q = flow of fluid from the hole
C = coefficient of discharge,
a = area of the hole (measured in ft),
g = gravity (32.2 ft/sec),
h = height of fluid above the cover (measured in ft).

Coefficient of discharge C is the product of the velocity (C_v) multiplied by the coefficient of contraction (C_c). $C = C_v \times C_c$
The values for C_v have been found to vary from 0.954 for 3/4 inch orifices to 0.991 for 2.5 inch orifices.
The value for C_c have been found to vary from 0.67 for 3/4 inch orifices to 0.614 for 2.5 inch orifices.

Example 1

You receive a report of a spill occurring at 12 noon. Your crews respond to the spill and relieve the spill at 2:30 p.m. In addition, they inform you that the flow was coming from 3/4 inch pick holes in the manhole cover, and when they arrived on the scene the flow appeared to be coming out of the holes approximately four inches above the lid. What is the total flow that you are to report to the regional board?

Assumptions for Example 1 spill:

1. Flow started at noon and was stopped at 2:30 p.m.
   Total time of spill was 2.5 hours (150 minutes).

2. Flow was coming from two - 3/4 inch pick holes.

The area of each 3/4 inch hole is 0.44179 in^2.
To convert in^2 to ft^2 multiply by 0.006944.
Therefore, a = 0.44179 in^2 x 0.006944 = 0.0031 ft^2 for each hole

3. Flow was coming out of each hole at a height of four inches.

To convert inches to feet, multiply by (Install Equation Editor and double-click here to view equation.)

Therefore, Install Equation Editor and double-click here to view equation.

4. The coefficient of discharge, $C = C_v \times C_c$. For 3/4 inch hole $C_v = 0.954$, $C_c = 0.67$
Therefore, $C = 0.954 \times 0.67 = 0.639$

5. Using the orifice equation Install Equation Editor and double-click here to view equation. the flow from each hole is:

Install Equation Editor and double-click here to view equation.
Install Equation Editor and double-click here to view equation.

6. Total flow. $Qt = Q$ x number of holes x length of spill (minutes)
Install Equation Editor and double-click here to view equation.

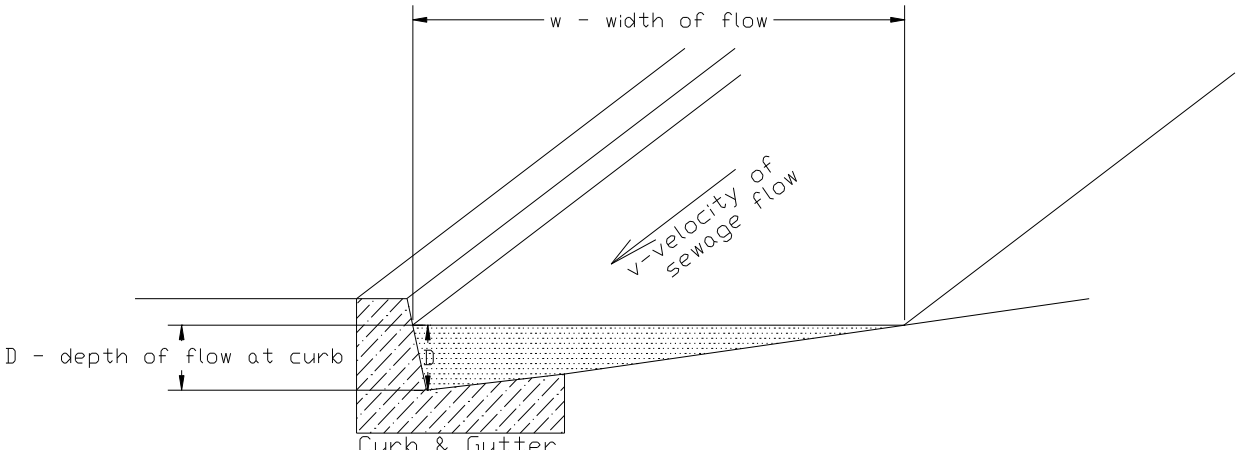
Measurements for calculating spills:

Height of sewage flow above the cover	h	_____ ft.
How many holes		
Size of holes (diameter)	d	_____ Inch
Height of sewage flow around the ring (annular space)	h_a	_____ ft.
Width of gap between the ring and cover (annular space width)	d_a	_____ Inch
Was lid lifted out of ring? ___ yes, ___ no. If yes, how high?		_____ Inch
When was spill reported?	_____ am	_____ pm
When did we stop it?	_____ am	_____ pm
Location: _____ , Operator:	Date:	

CALCULATING SPILLS

Example 2

Estimating quantity of sewer spill by measuring flow in gutter.



Measurements needed to calculate **Q** of the spill:
D-depth of flow at curb in feet
w-width of flow in feet
v-velocity of flow in feet per minute
Total flow **Q = ½ Dwv** (ft^3/min) = **½ Dwv** 7.48(G.P.M.)
In order to measure **v** velocity of sewage flow, throw a piece of paper in the middle of sewage flow and measure distance in feet how far the paper gets in 60 seconds. Use this number as **v**.

Note: **D, w, v** must be measured at the same location!

Assumptions for example 2:

1) Total time of spill was 3.5 hours
2) Measurements of flow were as follows:
   D= 6 inches = 0.5 feet
   w=4.5 feet
   v= 3.5 feet per minute
   Q= ½ **Dwv** x 7.48= ½ x 0.5 x 4.5 x 3.5 x 7.48 = 30 G.P.M.

Total spill amount = 30 G.P.M. x 210 Min. = 6300 gallons

MEASURING GAUGE METHOD

In order to measure the volume of spillage from an overflowing manhole, follow the steps below:

1. Remove the inspection hole cover.

2. Place the measuring device over the inspection hole, making sure that the device extends fully over the opening.

3. Place downward pressure on the measuring device to insure that the rubber seal on the bottom minimizes escaping flow.

4. Ask a co-worker to read the flow rate which is established by noting the highest point in which the flow escapes the device. The rate noted on the device is measured as flow per minute. Compare with the flow rate table on page A-9.

   IMPORTANT:

   A. ANY SPILLAGE EXCEEDING 1000 GALLONS FROM BEGINNING TO END MUST BE REPORTED TO THE LOS ANGELES DEPARTMENT OF HEALTH SERVICES.... REFER TO ATTACHMENT "B", PAGE A-3 OUTSIDE AGENCIES NOTIFICATION NUMBERS.

   B. REMEMBER THAT CONTAINMENT IS OUR FIRST PRIORITY. PROTECT STORM DRAIN SYSTEMS AND ATTEMPT TO DIRECT SPILLAGE INTO AN AREA THAT CAN BE REMOVED LATER.

5. Take photos of the measuring device in order to document the flow volume for our records. Make a note on the photo listing; rate of flow per minute, date, time, names of employees involved in measuring the flow rate and total spillage.

MEASURING GAUGE METHOD

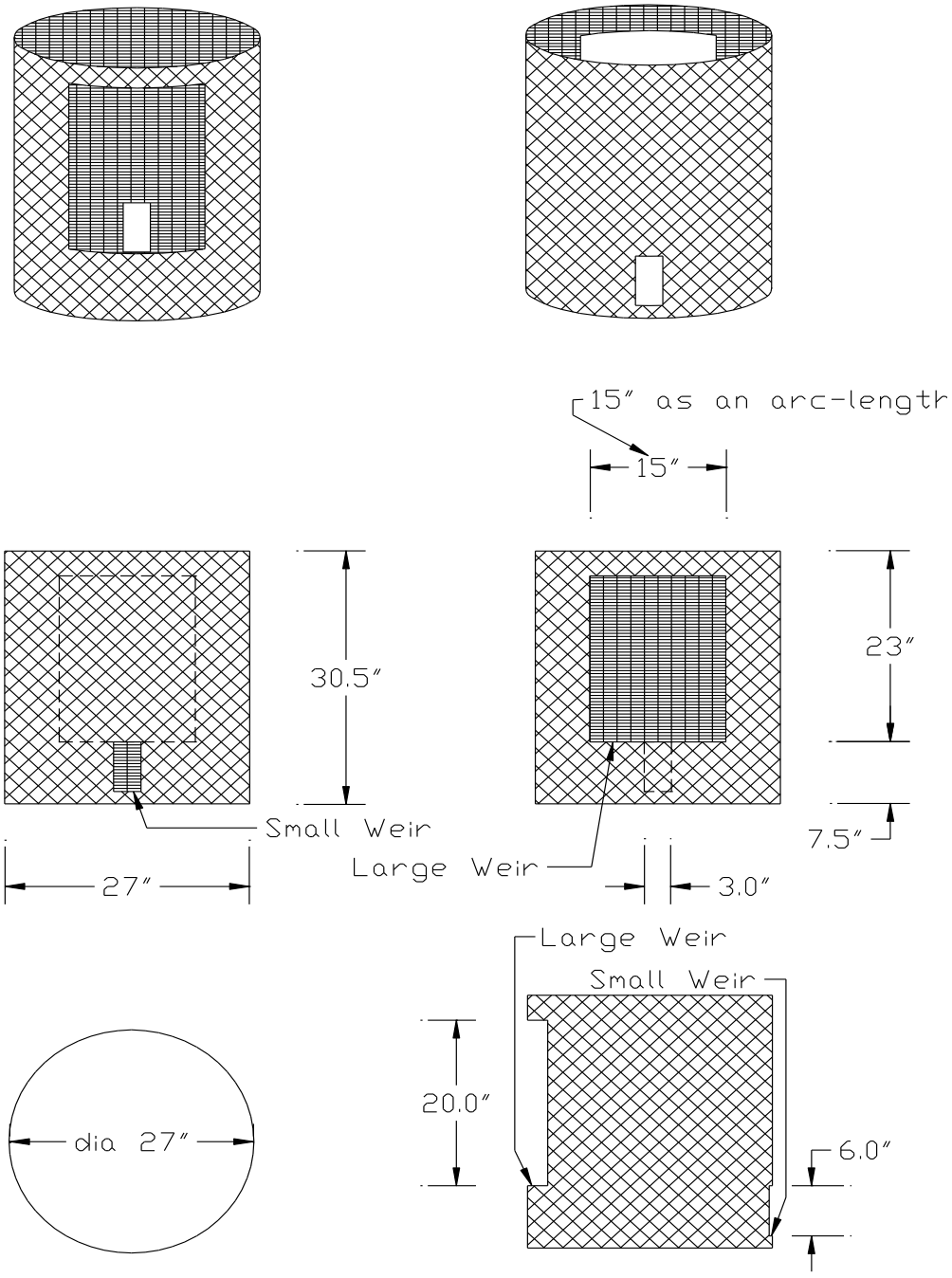
Flow Rate vs. Height for Small Weir (6"x 3")

Height (In.)	Height (Ft.)	Length (Ft.)	Flow Rate ($Ft.^3/s$)	Flow Rate (GPM)
0.68	0.05	0.25	0.01	5.00
1.04	0.09	0.25	0.02	10.00
1.37	0.11	0.25	0.03	15.00
1.68	0.14	0.25	0.04	20.00
1.92	0.16	0.25	0.06	25.00
3.05	0.25	0.25	0.11	50.00
4.00	0.33	0.25	0.17	75.00
4.84	0.40	0.25	0.22	100.00

Flow Rate vs. Height for Large Weir (15"x 20")

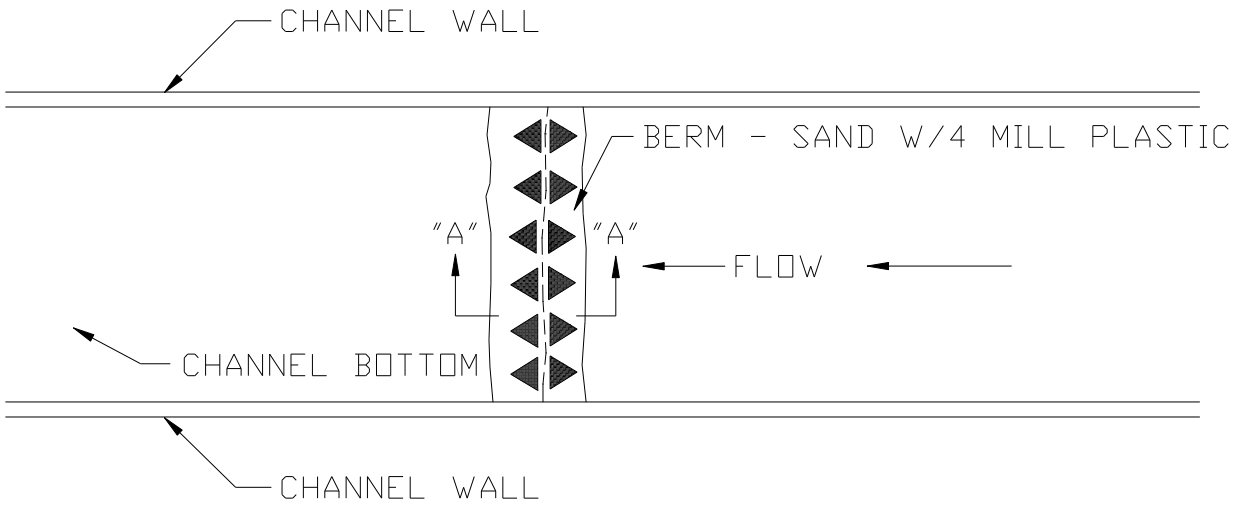
Height (In.)	Height (Ft.)	Length (Ft.)	Flow Rate ($Ft.^3/s$)	Flow Rate (GPM)
0.00	0.00	1.25	0.31	138
0.60	0.05	1.25	0.58	260
1.20	0.10	1.25	0.76	342
1.80	0.15	1.25	0.95	426
2.40	0.20	1.25	1.14	514
3.00	0.25	1.25	1.35	607
3.60	0.30	1.25	1.57	705
4.20	0.35	1.25	1.80	808
4.80	0.40	1.25	2.04	916
5.40	0.45	1.25	2.29	1029
6.00	0.50	1.25	2.55	1146
6.60	0.55	1.25	2.82	1268
7.20	0.60	1.25	3.10	1393
7.80	0.65	1.25	3.39	1523
8.40	0.70	1.25	3.69	1657
9.00	0.75	1.25	4.00	1795
9.60	0.80	1.25	4.32	1939
10.20	0.85	1.25	4.64	2082
10.80	0.90	1.25	4.97	2231
11.40	0.95	1.25	5.31	2383
12.00	1.00	1.25	5.66	2539
12.60	1.05	1.25	6.01	2698
13.20	1.10	1.25	6.37	2880
13.80	1.15	1.25	6.74	3027
14.40	1.20	1.25	7.12	3196
15.00	1.25	1.25	7.50	3368
15.60	1.30	1.25	7.89	3543
16.20	1.35	1.25	8.29	3721
16.80	1.40	1.25	8.69	3902
17.40	1.45	1.25	9.11	4086
18.00	1.50	1.25	9.52	4273
18.60	1.55	1.25	9.94	4463
19.20	1.60	1.25	10.37	4656
19.80	1.65	1.25	10.81	4851

MEASURING GAUGE METHOD
OVERFLOW MEASURING GAUGE

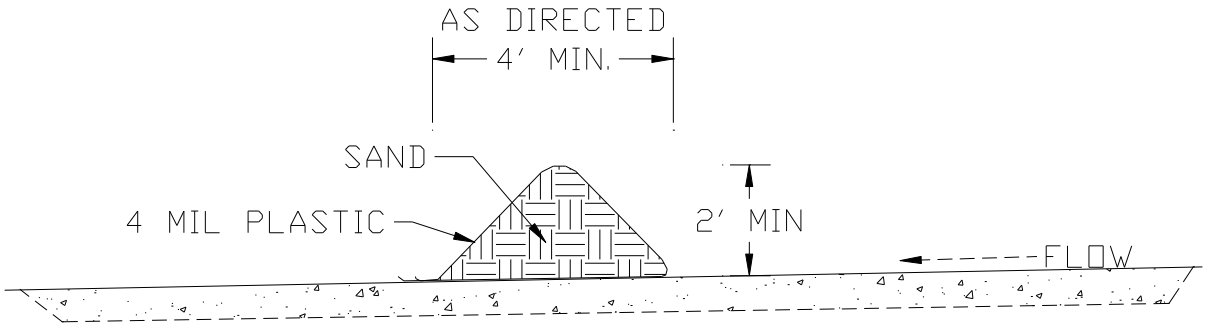


MEASURING GAUGE METHOD
OVERFLOW MEASURING GAUGE

EXHIBIT "B"
Sand Berm - Hard Bottom Channel



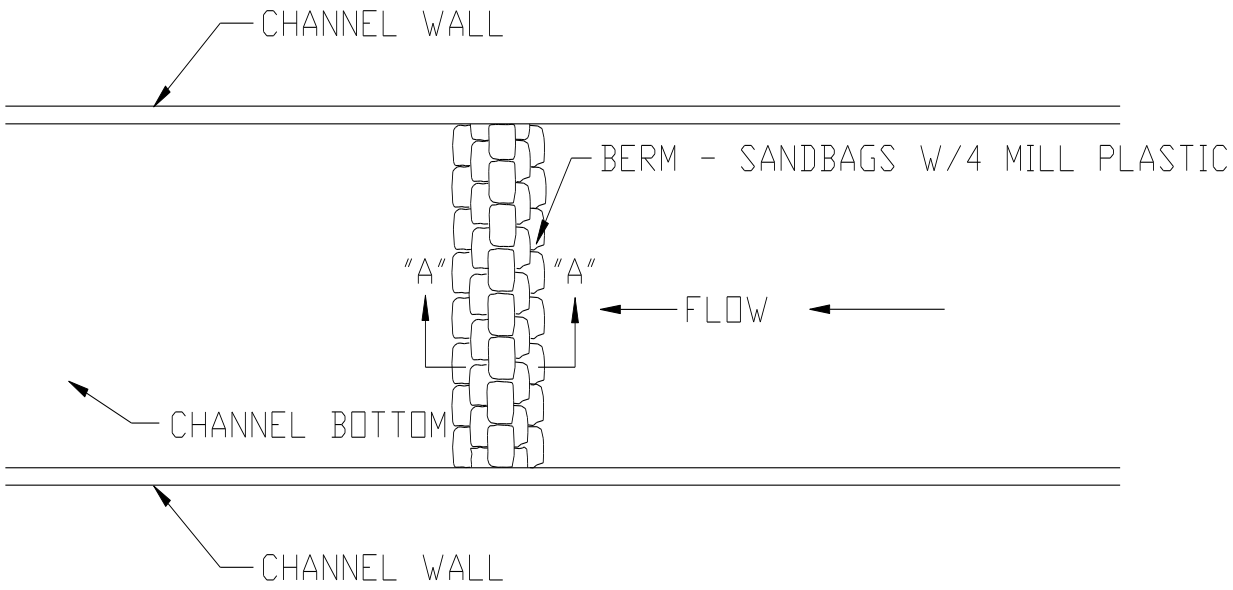
PLAN VIEW (not to scale)



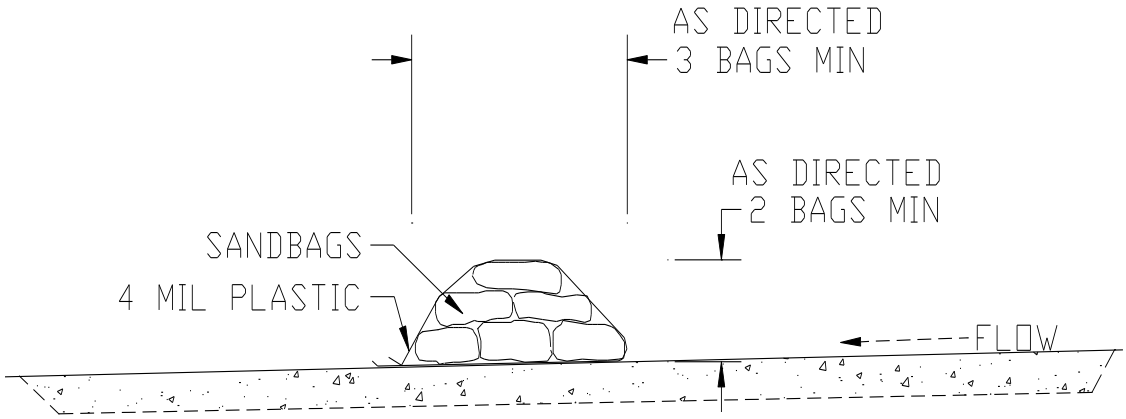
SECTION "A" - "A" (not to scale)

ATTACHMENT 6.4

MEASURING GAUGE METHOD
OVERFLOW MEASURING GAUGE



PLAN VIEW (not to scale)



SECTION "A" - "A" (not to scale)

ATTACHMENT 6.5

ENVIRONMENTAL RESPONSE COMPANIES AND CITY CONTACT NUMBERS

Environmental Restoration Companies

1.	Emergency Services Restoration P.O. Box 2567 Redondo Beach, CA 90278	Contact	Dispatch (800) 540-5532
2.	Romero Restoration 2528 Cherry Pl Ontario, CA 91761	Contact	Dispatch (909) 938-7685

Risk Management: Pending Claim

City Attorney Office	Phone:	(626) 574-5407 Office

Environmental Consultant

John L. Hunter & Associates	Phone:	(562) 802-7880
6131 Orangethorpe Ave, Suite 350	Fax:	(562) 802-2297
Buena Park, CA 90620	24-hr Cell #	(310) 344-8650

ATTACHMENT 7.1

FOG BROCHURE

* A new version is currently being developed.

& DO'S & DON'TS

Do install a grease trap and keep it clean. There should be only the slightest layer of grease on the outlet side.
Clean as needed more frequent clean outs will reduce bad smell of grease trap.

Note: Commercial additives, including detergents, that claim to dissolve grease may pass grease down the line and cause problems in other areas.

Do scrape grease off dishes & pots. Put grease in trash.

Don't clean hood filters in the sink. Use a commercial service instead. Some enterprising restaurateurs have even taken their dirty grease hoods to the self-serve car washes to be cleaned.

Don't use hot water to wash grease down the disposal. Grease liquefies in hot water and hardens once reaching the cold water in the sewers.

Don't pour greases and oils down any drains.

Recycle Waste Grease

Don't Let This Happen

visit www.calfog.org

City of Arcadia
Department of Public Works Services
For more information, please call
(626) 256-6554

Developed by John L. Hunter & Associates 2009

GREASE-FREE SEWER

A RESTAURANT GUIDE TO HELP PREVENT SEWER STOPPAGES

MEASURING GAUGE METHOD

TODAY'S LEADING CAUSE OF SEWER STOPPAGES IS GREASE FROM RESTAURANTS!

Once the sewer is almost blocked, the untreated sewage has nowhere to go but up into homes, restaurants, streets, or storm drains. When this happens, it can result in expensive property damages, clean up cost, and environmental pollution.

Sewage backups and overflows not only damage property interiors, it threatens the environment as well.

Most grease is a byproduct of food preparation such as:

- Cooking oil
- Meat fats
- Dairy products
- Baking goods
- Butter & margarine
- Shortening
- Sauces
- Food scraps
- Lard

Too often fats, oils and grease are washed into the plumbing system through kitchen sinks and floor drains in food preparation areas. Grease sticks to the insides of sewer pipes, and over time the grease can build up and block the entire pipe.

Most sewer stoppages occur when grease builds up on the sides of sewer lines buried under the street.

The normal flow of the sewer system is enough to keep small amounts of grease from sticking.

When too much grease is added to the sewer system, grease starts to build up on the sides of the sewer, causing a blockage.

WHAT ARE THE EFFECTS OF SEWER BLOCKAGE?

On your business

- Potential contact with disease-causing organisms.
- Sewage and food particles that accumulate while your sewer pipes back up can attract insects and other vermin.
- Property damage resulting from sewer blockage or back ups will lead to expensive plumbing repairs and clean up.
- Violations of the health code might lead to closure of your business.
- Severe fines to you from regulatory agencies.

On the environment

- Clogged sewers result in overflows.
- Sewage overflow may get onto city streets, and then flow into storm drains which lead to our rivers and beaches.
- Health risks to swimmers and marine life can cause beach closures.

On the city

- Increased sewer blockages lead to costly maintenance.
- Increased sewer fees!

& FINES & PENALTIES

If your restaurant causes a blockage, you could

1. Be closed down until the blockage is repaired.
2. Be liable for the cost of the clean up.
3. Be subject for the cost of any resulting property damage.
4. Be liable for fines from State or local agencies. Sewer spill can become expensive - both in efforts for remediation and from possible fines. The cost can add up very quickly!

DAILY REPORT SAMPLE

City of Arcadia

Maintenance Services Department

Daily Sewer Cleaning Record

Date 4/1/14 Tues.
Start Time 6:45 am
Finishing Time 4:15 pm.
Equipment # 80290 + 80229

Foreman K. Tobin
Crew Member A. Sornoza
Crew Member M. Sanchez VAC/OH
D. Dominguez, C. Diaz - WATERING

180 DAY HOT SPOTS

Street	MH#-MH#	LF Cleaned	Diameter	Note
Fairview Av.	210MH 010 - 009	500	8"	LT Roots
" "	210MH 005 - 010	460'	"	" "
Arcadia Av	S.O.C. 210MH 012 - 011	365'	8	" "
" "	210MH 007 - 012	450	"	" "
" "	S.O.C. 210MH 023 - 022	388'	8	Roots
" "	210MH 024 - 023	400'	"	Roots/Grease
" "	210MH 025 - 024	400'	"	LT Roots
Golden West Av	S.O.C. 210MH 025 - 032	423'	8"	" "
Arcadia Av.	310MH 013 - 210MH 025	350'	8"	" "
" "	310MH 014 - 013	400'	8"	" "
" "	310MH 015 - 014	400'	"	" "
" "	310MH 016 - 015	400'	8	" "
" "	310MH 016 - Drop 028	345'	8"	" "
El Vista Cir.	504MH 041 - 040	208'	8"	Roots
" " "	504MH 043 - 041	340'	"	"
	TOTAL	6671		

C:\WP_LUBO\SWRMAINT\SWRINSP2.FRM

SEWER CREW MONTHLY REPORT

NOTES:

Month August

LOCATION	Footage	REMARKS/CONDITION	Date
Hunt. Dr. / 2ND Intersection; Elmonte Siphon	1,672'		8/1 Fri.
enth Ave, Dexcel Dr., El Norte, Mayflower, Altavista, Short	5208'	W.O. #94684 Cockroaches; City Hall (Powered) Roots	8/4 Mon.
Bungalow, Loganrita, Magnolia Ln, Mayflower, Alster, Jefferies	5209'	Roots	8/5
Campus, Colorado Pl., Chelsea Rd., Easement, Oakhurst Ln, Harvard Dr.	4,580'		8/6
Santa Anita Av., La Porte St., Campus Dr.	4,055'		8/7 Thurs.
Colorado Pl., San Juan Dr., Duarte Rd.	4,511'		8/11 Mon.
Standish Pl., Loganrita Av., Camino Real Av., Jefferies, Eisenhower Park lateral	4,136'	W.O. 94737 Cockroaches; Powered manholes	8/12
Altern St., Mayflower, Shrode St., Encino Dr., Encino Ct., Encino	5,655'	Roots Hit 90'; W.O. 94833 Spray manholes (Slurry Inspection)	8/13
San Rafael, Hunt. Dr., Colorado, Santa Anita, Tiffany, Nicholas Ln, 8th, 9th	5394'		8/14
Rodyn Pl., Santa Anita Av., Santa Clara St.	2134'	WASHRACK / Table Top Response Training	8/15 Fri.
Duarte Rd / El Monte, 3rd, 4th	4974'	5 Gals Debris; 3 Gals Debris	8/18 Mon.
Camino Grove, Kathryn, Pamela Cir & Ct., 5th Av, Connie Way, La Sierra, Leda, Rosalee, Robbins, 5th	5313		8/18
7th Av, Scott Pl., Patricia Wy, Hunt. Dr., La Sierra Dr., Elena	5127'		8/19
5th Av., Hunt. Dr., Leda Ln., Ellen Wy, 3rd, Leland Wy	5013		8/19
Magna Vista Av, 3rd Av, La Sierra, Altern Av., Camelia Rd., 4th Av., Christina St., (Foothill Bl.)	6098'	Finished Slurry list.	8/20
City Hall Main Lines, Hunt. Dr., Fourth Av., Leda Ln.	5064'	On front Lawn Sludge	8/21 Thurs.
Camelia Rd., Santa Anita Terr., Louise, Altern St., Wy, Crystal Ct., Magna Vista Av, Greenfield Av.	2164'	(9509) Paint spill on 800 Blk Singingwood	8/25 Mon.
Camino Real Av, Louise Av, 5th Av	3982	(9509, paint spill)	8/25
Camino Real, 8th Av., Winnie Wy., Sixth Ave, Fourth Av.	5478'	D.O.T. Random Drug Test (805)	8/26
Greenfield, Pamela Rd., Magna Vista, La Sierra Dr., e Dr, 7th Pl, 7th Av, Norman, 8th Av	5426'		8/26
Camino Real Av., 3rd Av, 2nd Av, Santa Anita Av, Woodruff Av, Bishop Ct., Rodell Pl, Palm Dr.	5562'	Lt. Debris	8/27
lip Ln, 8th Av, Santa Anita Av., Palm Dr., Longden	5447'	Easement Shelve Repair 5th Av [illegible]	8/27
3rd, Longden Av., 7th, 6th Ave., 5th, Santa Anita Av.	5334'	WO [illegible] Grate apply Root Powder; Lt. Debris	8/28
8th Av., 6th Av., Norman	4130'		8/28
30 Day Hot Spots & Foothill, Colorado Dr. x2 Siphons, Santa Clara, Santa Anita, Morlan, Elkins, Old Ranch	3139'		8/29 Fri.
TOTAL	114,725	0 S.S.O.'s; Lat. Backups	

MONTHLY FOOTAGE TOTALS

MONTH	YEAR	FOOTAGE	S.S.O	HOTSPOTS	COMMENTS
JANUARY	2014	95954	0	30/90	1 LAT.BACKUP
FEBRUARY	2014	101596	0	30	1LAT.BACKUP
MARCH	2014	112725	0	30	1 lat.BACKUP[washrack]
APRIL	2014	122195	0	30/90/180	1 lat. @mall private property
MAY	2014	76716	0	30	2 lat.back up
JUNE	2014	101113	0	30	2 lat.back up
JULY	2014	113737	0	30/90	2 lat.back up
AUGUST	2014	114725	0	30	0 lat.back up reported
SEPTEMBER	2014	104481	1	30	2 lat.back up
OCTOBER	2014				
NOVEMBER	2014				
DECEMBER	2014				
TOTAL	2014	943242			
JANUARY	2015				
FEBRUARY	2015				
MARCH	2015				
APRIL	2015				
MAY	2015				
JUNE	2015				
JULY	2015				
AUGUST	2015				
SEPTEMBER	2015				
OCTOBER	2015				
NOVEMBER	2015				
DECEMBER	2015				
TOTAL	2015	0			
JANUARY	2016				
FEBRUARY	2016				
MARCH	2016				
APRIL	2016				
MAY	2016				
JUNE	2016				
JULY	2016				
AUGUST	2016				
SEPTEMBER	2016				

MONTHLY FOOTAGE TOTALS

OCTOBER	2016				
NOVEMBER	2016				
DECEMBER	2016				
TOTAL	2016	0			

ATTACHMENT