

**Volume 9**  
**PLACER COUNTY SERVICE AREA 28, ZONE 55**  
**(CSA 55) LIVOTI**  
**SEWER SYSTEM MANAGEMENT PLAN**

**INTRODUCTION**

**PLACER COUNTY MAINTAINED PUBLIC SEWER SYSTEMS**

The Placer County Department of Facility Services operates and maintains nine separate sanitary sewer collection systems within the County. Eight of these are either Sewer Maintenance Districts (SMDs) or County Service Areas (CSAs) which derive their operating revenue from sewer user fees. Funds do not co-mingle between Districts. The Placer County Board of Supervisors is the governing board of each SMD or CSA. The ninth sewer system serves the Eastern Regional Landfill (ERL) Facility and the property is owned by the County. On May 2, 2006, the State Water Resources Control Board adopted Order 2006-003 Waste Discharge Requirements, which required all public owned sewer systems in the State with more than one mile of collection pipe to develop a Sewer System Management Plan (SSMP). Volume 1 (All Districts), Volume 2 (Appendices) and this volume comprise the SSMP for this District.

**CSA 55 HISTORY AND DESCRIPTION**

The Livoti area was first subdivided in 1946 by the Livoti family. That subdivision, and several after it, created about 234 residential lots of about 10,000 square feet each. A number of homes were built on them and sewage disposal was by leach fields and seepage pits. By the early 1960's, it became obvious that there was a health problem with the soil systems and, in 1964, an assessment district was formed with bonds sold for the design and construction of a sewer system.

All of the area that is now CSA 55 drains south into Sacramento County, which has gravity sewer pipes on their side of the County line. In 1964, an agreement was reached with Sacramento County Sanitation District 1 to accept wastewater generated from the Livoti area. In that agreement, Sacramento County agreed to operate and maintain the sewage collection system in the Livoti (inside Placer County) and collect sewer service charges directly from the homeowners. Over time, additional sewer lines were constructed to serve the parcels of land as they developed. In 1999, Placer County applied for and obtained a Community Development Block Grant to sewer the remaining portion of the Livoti that was on leachfields. This project covered the northeast corner of the Livoti and when it was complete, all existing homes were ordered to abandon their leaching systems and to connect to the new sewer system.

In 1986, Sacramento County informed Placer County that they no longer wished to operate and maintain the sewer pipes within Placer County and wanted to re-negotiate their contract. A new agreement was reached (copy contained in Volume 2, Appendix “F”) and Placer County formed County Service Area 28, Zone 55. Wastewater continued to flow into Sacramento County for treatment and disposal while the CSA began operating the sewer system in Livoti. In the 1980’s and 1990’s, the City of Roseville annexed all of the open land on the north and east of CSA 55 into their city limits. That Roseville area was developed with sewers connecting to the City of Roseville wastewater treatment plant rather than Sacramento County.

Through the CSA, Placer County collects sewer user fees from parcels connected to the sewer system. The County uses the fees to pay for sewer maintenance and to pay Sacramento County to treat the wastewater. A District sewer map is provided in Section 4.1 of this SSMP. It shows the main part of Livoti’s sewers connecting to Sacramento County off Whyte Avenue along with five other short connections (serving only a few lots each) between Mariposa Avenue and Sunrise Avenue. Seventeen lots at the north end of Mariposa Avenue do drain into the City of Roseville’s sewer collection system; however, that portion eventually also flows into Sacramento County for sewer treatment. As of July 2008, CSA 55 has approximately 3 miles of sewer pipe in the ground and 234 EDUs connections.

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## **1.0 GOALS**

### **1.1 Introduction**

Goals are the crux of any plan. They are the defining targets in which more specific objectives of this SSMP are aimed. The SSMP goals are itemized in SSMP Volume 1.

### **1.2 Placer County SSMP Goals**

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Goals” requirements.**

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## **2.0 ORGANIZATION**

### **2.1 Introduction**

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Organization” requirements.**

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## **3.0 LEGAL AUTHORITY**

### **3.1 Introduction**

Of the nine wastewater collection systems owned and maintained by Placer County (see Table Int-1), two have their own wastewater treatment systems and do not rely on other agencies for wastewater treatment. The remaining seven sewer collection systems are satellite collection systems that connect to wastewater treatment plants owned and operated by other public agencies. This makes the legal authority for all nine sewer collection systems and their two satellite systems somewhat complicated. CSA 55 is a satellite collection system. An explanation of the districts legal authority is provided below:

### **3.2 Placer County Code, Articles 13.12 and 13.14**

Every Placer County maintained sewage collection system, whether it has its own wastewater treatment plant or it is a satellite collection system to another agency's treatment plant, is covered by Articles 13.12 and 13.14 of the Placer County Code.

Article 13.12 is a comprehensive sewer ordinance that has been in use over 40 years and governs operation and maintenance of the County's sewer collection system. It also contains the user fee, annexation fee and connection fee schedule for the nine sewer systems (excluding Cabin Creek). This ordinance has been updated many times and will continue to be updated as conditions warrant.

Article 13.14 is the Placer County Industrial Pretreatment Ordinance. While this article primarily regulates industry to protect the District wastewater treatment systems, it also regulates many industrial types of discharges that could have adverse effects on collection systems.

Section 3, of the State WDRs, directs that legal authority cover a minimum of five items. Those five items and their location in the Placer County Code are summarized in the following table.

**Table 3-1, WDR Legal Authority Requirements**

Requirement	Code Location
Prevent illicit discharges	Section 13.12.020 Section 13.12.070 Section 13.12.100 Section 13.12.140 Section 13.14.050
Require proper design and construction	Section 13.12.210 and 220
Ensure access for maintenance/repairs	Section 13.14.180
Limit FOG discharges	Section 13.14.050
Enforce violations	Section 13.12.190 and 330

The Placer County Department of Facility Services periodically publishes a booklet containing current copies of Sections 13.12 and 13.14 of the County Code together with copies of the applicable City of Roseville Sewer Codes (see Sub-Section 3.2 of this Section). That booklet is contained in **Appendix “B”** of Volume 2 and a separate copy can be obtained at the Facility Service’s front counter. It is titled “Rules and Regulations of Placer County Operated Sewer and Water Systems”. A current copy of the Placer County Code can also be found on the County web site at <http://qcode.us/codes/placercounty/view.php?&frames=on> .

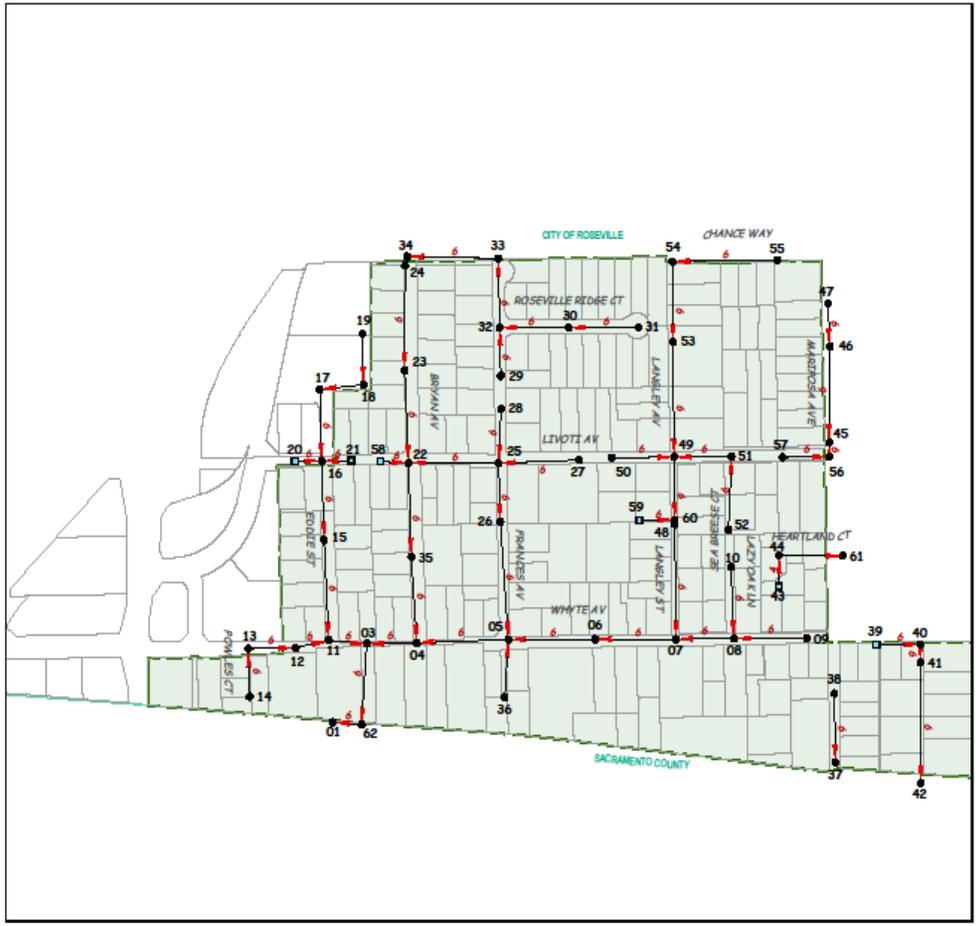
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**4.0 OPERATIONS AND  
MAINTENANCE PROGRAM**

**4.1 Collection System Mapping**

**4.1.1 Introduction**

As described in detail in Section 4 of Volume 1 (all districts SSMP), Placer County uses a GIS mapping system to produce sewer maps of each of the nine sewer systems it maintains. The mapping system produces wall size maps (1"=400') of the boundary of each district and also produces 11"x17" map book pages placed in map books and used by maintenance personnel. An example of the index map and an individual map page for CSA 55 are contained in the following two pages. Wall maps of the entire sewer district are available for public review at the Environmental Engineering Offices located at 11476 C Avenue, Auburn, CA 95603 and upon request at (530) 886-4900.



HA1	HA2
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**LIVOTI**  
 CSA 28 - ZONE 55  
 SANITARY SEWER

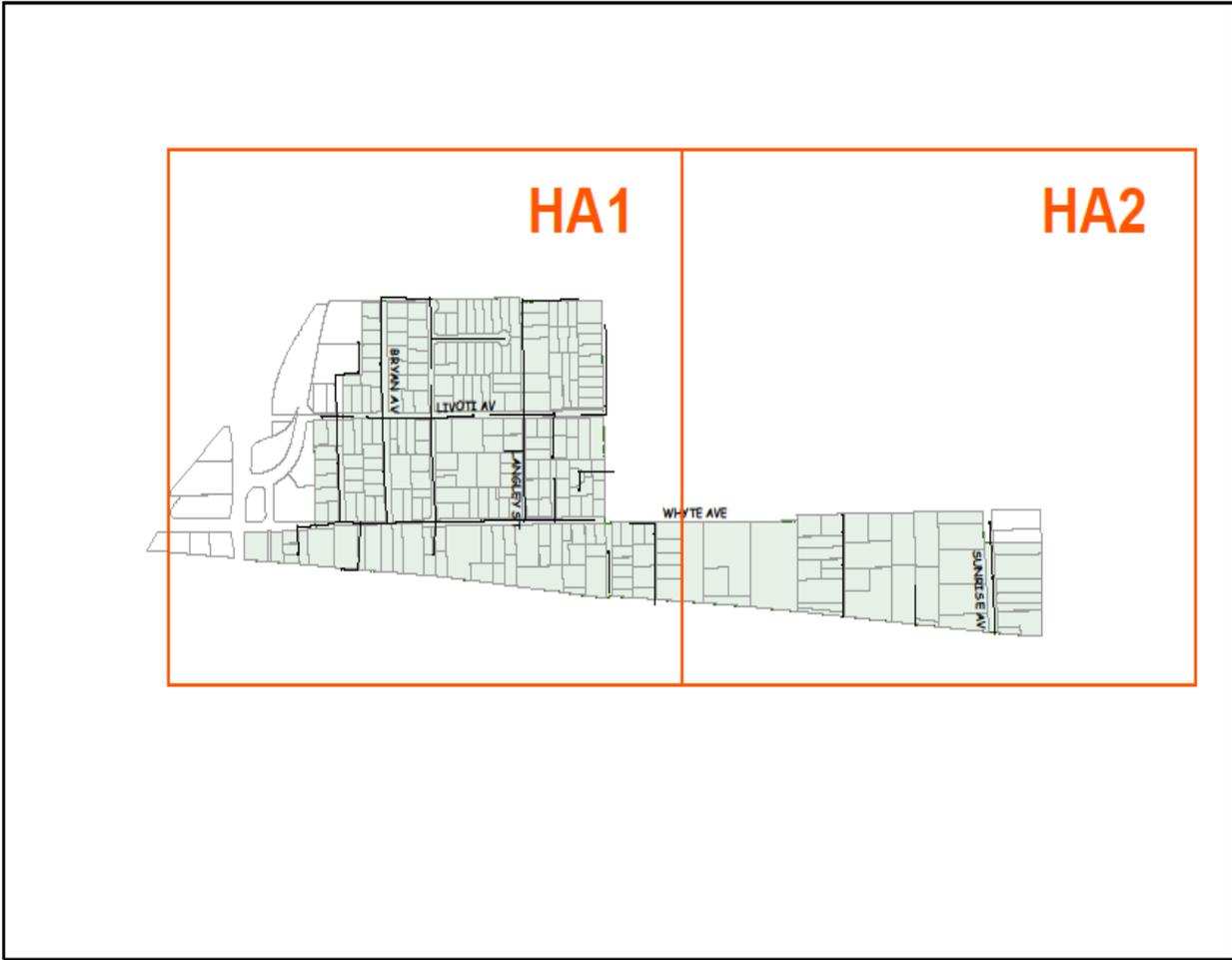
THIS MAP IS FOR INFORMATION ONLY AND IS NOT TO BE USED FOR DESIGN PURPOSES. PLACER COUNTY DOES NOT GUARANTEE ACCURACY OR CURRENTNESS OF THE INFORMATION. PERMITS ARE REQUIRED FOR EXCAVATION IN COUNTY RIGHTS OF WAY OR PUBLIC UTILITY EASEMENTS.

REV: 05/01/05



SCALE: 1" = 400'





# MAP INDEX

## LIVOTTI

CSA 28 - ZONE 55  
SANITARY SEWER

THIS MAP IS FOR INFORMATION ONLY AND IS NOT TO BE USED FOR DESIGN PURPOSES. PLACER COUNTY DOES NOT GUARANTEE ACCURACY OR CURRENTNESS OF THE INFORMATION. PERMITS ARE REQUIRED FOR EXCAVATION IN COUNTY RIGHTS OF WAY OR PUBLIC UTILITY EASEMENTS.



NOT TO SCALE

PLACER COUNTY



FACILITY SERVICES

## **4.2 Preventive Operation and Maintenance**

### **4.2.1 Introduction**

As mentioned in the introduction to this SSMP, a number of the requirements or sections of the SSMP provide data pertaining to all nine of the Placer County maintained public sewer systems and there is no reason to duplicate that information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Preventive Operation and Maintenance” requirements.**

## **4.3 Rehabilitation and Replacement Plan**

### **4.3.1 Introduction**

As noted in Volume 1, “All districts SSMP”, Section 4.3.0, in order to develop a Rehabilitation and Replacement (R & R) plan for a sewer collection system, a condition assessment of the sewer system must be completed. Methods of doing a condition assessment are detailed in Section 4.3.0. **Before proceeding with this section of this SSMP, the reader should review Section 4.3.0 of Volume 1 to better understand the methods chosen to evaluate this sewer system.**

### **4.3.2 Condition Assessment, Rehabilitation, and Replacement Plan**

As noted in Section 4.3.0, before R&R plans can be developed, a condition assessment of a sewer system must be made. That condition assessment usually consists of the following:

- Television inspection of gravity sewer lines.
- Smoke testing sewer lines.
- Hydro cleaning sewer lines.
- Visual inspection of manholes.
- Complete inspection of sewage pump stations.

The nine sewer districts maintained by Placer County vary in size from 0.5 miles to 118 miles of pipe and have 42 sewage pump stations between them. Therefore, a condition assessment can be relatively easy to complete for the small districts and difficult for the large districts. For the large districts, conducting a condition assessment of the entire district at one time can be cumbersome and inefficient due to the volume of work to be completed and analyzed. In those districts, dividing the sewer districts into small sections is a feasible way of completing the project over a number of years rather than all at once.

In the case of CSA 55, the following information is available:

- The CSA has approximately 3 miles of sewer pipe and no sewage pump stations.
- Some TV work and smoke testing has been done in recent years.
- No sewer system overflows have been recorded in the last 5 years.
- No Condition Assessment or R&R plans have been developed.

Therefore, it is recommended that the sewer system and manholes be inspected, smoke tested and a condition assessment be completed prior to the preparation of a R&R plan.

### 4.3.3 CSA 55 Rehabilitation and Replacement Schedule

The proposed schedule for completion of the above noted work is as follows:

Proposed Project	Completion Year
CCTV Sewers	2021*
Pump Station Evaluation	2021*
Condition Assessment Report	2022*
Capacity Analysis	2022*
Capital Improvement Program	2023*

\*The District operates under an ongoing Preventative Maintenance program that schedules portions of these Projects each year to ensure that each of the Projects are completed every ten years. Completion years for the current Project cycles are presented above.

## 4.4 Training

### 4.4.1 Introduction

As mentioned in the introduction to this SSMP, a number of the requirements or sections of the SSMP provide data pertaining to all nine of the Placer County maintained public sewer systems and there is no reason to duplicate that information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Training” requirements.**

## **4.5 Contingency Equipment and Replacement Inventories**

### **4.5.1 Introduction**

As mentioned in the introduction to this SSMP, a number of the requirements or sections of the SSMP provide data pertaining to all nine County maintained public sewer systems and there is no reason to duplicate that information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Contingency Equipment and Replacement Inventories” requirements.**

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## **5.0 DESIGN AND PERFORMANCE PROVISIONS**

### **5.1 Standards for Installation, Rehabilitation, and Repair**

#### **5.1.1 Introduction**

As mentioned in the introduction to this SSMP, a number of the requirements or sections of the SSMP provide data pertaining to all nine of the Placer County maintained public sewer systems and there is no reason to duplicate that information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Design and Performance Standards” requirements.**

### **5.2 Standards for Inspection and Testing of New, Rehabilitated, and Repaired Facilities**

For new sewer construction, the County follows the General Specifications (see Appendix J of Volume 2) and design criteria for the Land Development Manual (see Appendix I of Volume 2). The County General Specifications are currently being revised.

The County implements a Preventative Maintenance (PM) Program that uses NASSCO ratings to prioritize rehab and repair projects. County staff performs interior point repairs and smaller excavation projects to fix structural and I&I related problems. The County routinely contracts Cured in Place Pipe (CIPP) and manhole lining work based upon the results of the PM program.

#### **5.2.1 Introduction**

As mentioned in the introduction to this SSMP, a number of the requirements or sections of the SSMP provide data pertaining to all nine of the Placer County maintained public sewer collection systems and there is no reason to duplicate that information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Standards for Inspection and Testing” requirements.**

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**6.0 OVERFLOW EMERGENCY  
RESPONSE PLAN**

**6.1 Introduction**

As mentioned in the introduction to this SSMP, a number of the requirements or sections of the SSMP provide data pertaining to all nine of the Placer County maintained public sewer systems and there is no reason to duplicate that information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Overflow Emergency Response Plan” requirement.**

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## **7.0 FATS, OILS, AND GREASE (FOG) CONTROL PROGRAM**

### **7.1 Introduction**

There are a number of ways a FOG Control and Public Outreach Program can be developed for an existing sewer system depending on its size and type of connections. Those methods are summarized in Volume 1, “All districts SSMP”, Section 7. **Before proceeding with this section of the CSA 55 SSMP, the reader should review Section 7 of Volume 1 to better understand the methods chosen to control FOG in the CSA 55 Sewer System.**

### **7.2 Existing CSA 55 Sewer System**

See the “Introduction” of this SSMP, CSA 55 History and Description, for a summary of the district sewer system. As noted at that location, the existing sewer system Livoti has approximately 3 miles of gravity sewer and primarily consists of residential connections. The only non-residential connections include a beauty college and two churches which do not produce FOG.

### **7.3 Selected FOG Source Control and Public Education Outreach Program**

Due to the conditions noted above, the most appropriate FOG Source Control and Public Education Outreach Program (see Section 7.6, Volume 1) would be “Program A”. There are 3 non-residential connections to the sewer system and a Public Education Outreach Program is sufficient.

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## **8.0 SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN**

### **8.1 Introduction**

There are a number of ways a System Evaluation and Capacity Assurance Plan can be developed for an existing sewer system depending on its size and age. Those methods are summarized in Volume 1, “All Districts SSMP”, Section 8. **Before proceeding with this section of the CSA 55 SSMP, the reader should review Section 8 of Volume 1 to better understand the methods chosen to evaluate the CSA 55 sewer system.**

### **8.2 Existing CSA 55 Sewer System**

See the “Introduction” of this SSMP, CSA 23 History and Description, for a summary of the district sewer collection system. As noted at that location, the existing sewer system at Livoti is small in size with approximately 3 miles of pipe. There are no sewage pump stations and all of the wastewater flows into Sacramento County for treatment and disposal in that facility. Although excessive peak wet weather flows have not been seen by maintenance crews, wet weather flow monitoring has never been completed in the district.

### **8.3 Selected Capacity Analysis Type**

Due to the conditions noted above, the most appropriate Capacity Analysis Type (see Section 8.3, Volume 1) would be “Type B”.

### **8.4 Capital Improvement Program and Funding**

Based on the results of the proposed Capacity Analysis in Section 8.3, if improvements are needed to the CSA 55 Sewer System, a Capital Improvement Program (CIP) and funding program will be developed to meet those needs. However, at this time, the capacity analysis has not been completed and, therefore, the CIP and funding program cannot be presented.

## 8.5 CIP Schedule

The proposed schedule for the above noted work is as follows:

<b>Proposed Project</b>	<b>Completion Year</b>
CCTV Sewers	2021*
Pump Station Evaluation	2021*
Condition Assessment Report	2022*
Capacity Analysis	2022*
Capital Improvement Program	2023*

\*The District operates under an ongoing Preventative Maintenance program that schedules portions of these Projects each year to ensure that each of the Projects are completed every ten years. Completion years for the current Project cycles are presented above.

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## **9.0 MONITORING, MEASUREMENT, AND PROGRAM MODIFICATIONS**

### **9.1 Introduction**

As noted in Section 9 of the All Districts SSMP (Volume 1), Monitoring, Measurement, and Program Modifications, is probably one of the most important components in developing a SSMP. Once all programs and projects listed in the previous chapters are implemented, they need to be monitored and measured so they can be evaluated to determine their effectiveness. This evaluation is done by collecting data on a yearly basis that will show how effective they are in reaching the goals of the SSMP, reducing Sewer System Overflows (SSOs) and protecting the environment. The yearly SSO data is plotted to see rolling five-year trends as a part of the internal self-audit process that occurs every two years. Program modifications are made based upon the recommendations of these internal self-audits.

### **9.2 Maintain Relevant Information (Requirement 9.0 a)**

Section 9 of Volume 1 lists a number of potential maintenance activities that could be tracked in any district, depending on specific circumstances. Table 9.1 lists the activities selected for this district. When data is available, Table 9.1 also lists the totals from the last 5 years for those activities to provide a baseline for evaluation.

Data from calendar years 2013 and 2014 are available now, but not presented here. The next internal SSMP self-audit will be performed in calendar year 2016 and will include data through calendar year 2015. For information on these measurement categories from calendar years beyond 2012, refer to the internal SSMP self-audit.

**Table 9.1 CSA 55 (Livoti) Measurement Categories**

Category	Units	Description	Unit	Number By Year				
				2008	2009	2010	2011	2012
SSOs	--	Caused by Roots	Count	0	0	0	0	0
SSOs	--	Caused by Grease	Count	0	0	0	0	0
SSOs	--	Caused by Contractors	Count	0	0	0	0	0
SSOs	--	Caused by Vandalism	Count	0	0	0	0	0
SSOs	--	From Lift Stations	Count	0	0	0	0	0
SSOs	--	From Other Causes	Count	0	0	0	0	0
SSOs	--	Total Category 1	Count	0	0	0	0	0
SSOs	--	Total Category 2	Count	0	0	0	0	0
SSOs	--	Total SSOs	Count	0	0	0	0	0
Gravity Sewers	Miles	CCTV Inspection Sewers	Miles	0	0	0	0	0
Gravity Sewers	Miles	Clean Sewers	Miles	0	0	0	0	0
Gravity Sewers	Miles	Sewer Rehabilitation Dig and Repair	Count	0	0	0	0	0
Gravity Sewers	Miles	Sewer Rehabilitation Pipe Lining	Linear Feet	0	0	0	0	0

**Table 9.1 CSA 55 (Livoti) Measurement Categories (continued)**

Category	Units	Description	Unit	Number By Year				
				2008	2009	2010	2011	2012
Gravity Sewers	Miles	Smoke Test Sewers	Miles	0	0	0	0	0
Gravity Sewers	Miles	Root Treatment	Miles	0	0	0	0	0
Manholes	Each	Manholes Rehabilitation	Count	0	0	0	0	0

Note: Calendar year 2013 and 2014 data are now available but not presented here. The next internal SSMP self-audit will be performed in calendar year 2016 and will include data through calendar year 2015. For information on these measurement categories from calendar years beyond 2012, refer to the internal SSMP self-audit.

### **9.3 Monitor the Effectiveness of the SSMP and the Success of the Preventative Maintenance Program (Requirement 9.0 b-c)**

The WDRs require Placer County to monitor the effectiveness of the SSMP and the success of the preventative maintenance program. Staff performed SSMP self-audits every two years. The SMD 1 SSMP self-audit was last completed in October 2014.

### **9.4 Update Program Elements (Requirement 9.0 d)**

The SSMP elements are updated every five years, at a minimum. The updates are based upon the recommendations of the internal SSMP self-audits that occur a minimum of every two years.

### **9.5 Identify and Illustrate SSO Trends (Requirement 9.0 e)**

SSO trends are presented in the SSMP self-audits performed every two years. The audits specifically show trends of the number of SSO's, the category of SSO's and the volume of SSO's (total and unrecovered) over the previous five years. For specific trends, refer to the most recent SSMP self-audit.

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## **10.0 SSMP PROGRAM AUDITS**

### **10.1 Introduction**

As mentioned in the introduction to this SSMP, a number of the requirements or sections of the SSMP provide data pertaining to all nine of the Placer County maintained public sewer systems and there is no reason to duplicate that information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “SSMP Program Audits” requirements.**

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## **11.0 COMMUNICATIONS PROGRAM**

### **11.1 Introduction**

As mentioned in the introduction to this SSMP, a number of the requirements or sections of the SSMP provide data pertaining to all nine of the Placer County maintained public sewer systems and there is no reason to duplicate that information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Communications Program” requirements.**

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## **12.0 SSMP COMPLETION AND CERTIFICATION**

### **12.1 Introduction**

As mentioned in the introduction to this SSMP, a number of the requirements or sections of the SSMP provide data pertaining to all nine of the Placer County maintained public sewer systems and there is no reason to duplicate that information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “SSMP Completion and Certification” requirements.**