

Volume 8
PLACER COUNTY SERVICE AREA 28, ZONE 24
(CSA 24) APPLGATE
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 24 HISTORY AND DESCRIPTION

Prior to the construction of Interstate 80, the community of Applegate was a motel, food, and a gasoline stop on old US 40. It had a few homes and businesses, all connected to wells and septic systems. One group of businesses operated a small wastewater treatment pond to treat their sewer flow. By the early 1970s, the treatment pond and a number of septic systems began to fail. This prompted the County to obtain a federal Clean Water Grant to provide public sewer collection service to the area. In 1975, approximately 2.0 miles of sewer was constructed and three new wastewater treatment ponds were placed south of the community near the railroad tracks to treat the sewage generated from this area. CSA 24 was formed around the community to provide operation and maintenance of the new collection and treatment system.

The new ponds had a small amount of capacity in them; therefore, a limited amount of new connections were available. In 1975, the existing homes and businesses were connected to the sewer system. By 1985, approximately 15 new homes were built and connected, the ponds had no remaining capacity, and a moratorium on new connections was placed on the system by the State of California. To date, there are only 28 parcels of land connected to the sewer system, representing 39 Equivalent Dwelling Units (EDUs).

The State Central Valley Regional Water Quality Control Board ordered existing wastewater treatment ponds at CSA 24 cease discharging into the adjacent creek and the underlying groundwater. In a settlement with the Regional Board, Placer County agreed to construct a pipeline from Applegate to the existing Sewer Maintenance District 1 sewer system in North Auburn and abandon the treatment ponds. This project was completed in September 2014 and the moratorium was subsequently lifted.

A District map is provided in Section 4.1 of this SSMP. As of September 2014, CSA 24 has 4 miles of sewer pipe in the ground.

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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 of Volume 1), two have their own wastewater treatment systems and do not rely on other agencies for wastewater treatment. The remaining seven sewer 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 systems and their two satellite systems somewhat complicated. An explanation of the Districts legal authority 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 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> .

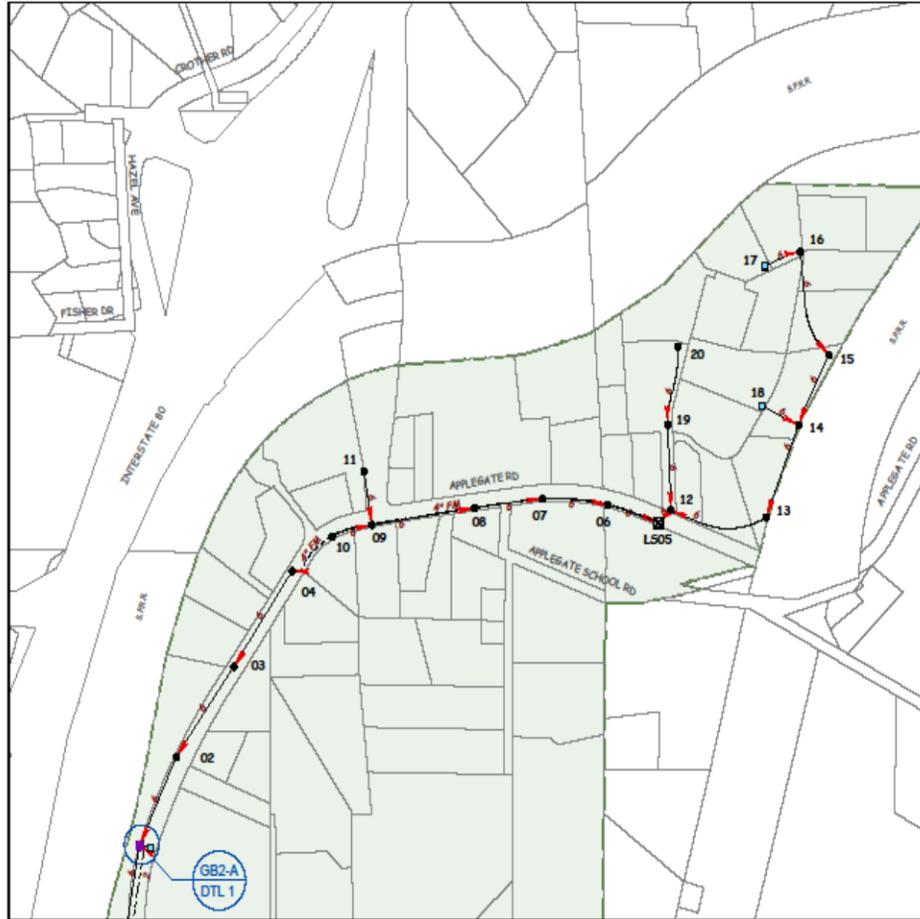
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**4.0 OPERATIONS AND
MAINTENANCE PROGRAM**

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. Copies of the index map and one example of the individual map pages for SMD 1 are shown on pages 7 and 6, respectively. 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.



GB2

GA2

APPLEGATE

CSA 28 - ZONE 24
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: 02/28/07

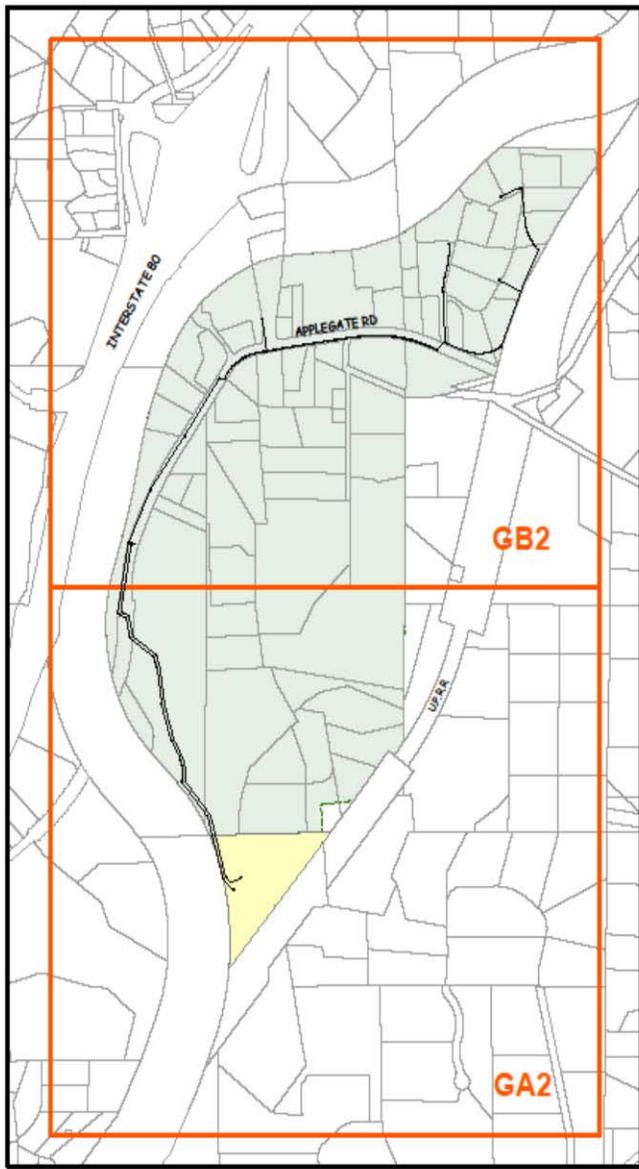


SCALE: 1" = 400'

PLACER COUNTY



FACILITY SERVICES



**MAP
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APPLEGATE

CSA 28 - ZONE 24
SANITARY SEWER

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REV: 03/08/07

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 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 system, first a Condition Assessment of the sewer collection 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:

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

The nine sewer districts maintained by Placer County vary in size from 1.5 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, a feasible way of completing the project over a number of years is by dividing the sewer district into smaller sections rather than completing the work all at once.

In the case of CSA 24, the following information is available:

- The CSA has 2.0 miles of sewer pipe and has 2 sewage pump stations.
- Since 2007, 0.19 miles was smoke tested and one defect on a private lateral was found.
- No sewer system overflows have been recorded that was caused by lack of maintenance on the sewer lines.
- No Condition Assessment or R&R plans have been developed.

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

4.3.3 CSA 24 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 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 Placer County maintained public sewer systems and there is no reason to duplicate that information. This section is one of those that can be found in its entirety in 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 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 rehabilitation 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 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 “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 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 24 SSMP, the reader should review Section 7 of Volume 1 to better understand the methods chosen to control FOG in the CSA 24 Sewer System.**

7.2 Existing CSA 24 Sewer System

See the “Introduction” of this SSMP, CSA 24 History and Description, for a summary of the district sewer system. As noted at that location, the existing sewer system in Applegate is 2 miles with 28 parcels (39 EDUs) connected to the sewer. There are several commercial businesses connected to the public sewer. These businesses do not currently 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 B”. A Public Education Outreach Program should be developed and the businesses could be targeted with a more intense education program.

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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 24 SSMP, the reader should review Section 8 of Volume 1 to better understand the methods chosen to evaluate the CSA 24 sewer system.**

8.2 Existing CSA 24 Sewer System

See the “Introduction” of this SSMP, CSA 24 History and Description, for a summary of the history about the district sewer system. As noted at that location, the existing sewer system at Applegate is 2 miles. The moratorium on building was lifted in 2014 after the regional project to SMD 1 was completed. There has been some dry and wet weather flow monitoring in this sewer system and the area does experience a moderate or high amount of Infiltration and Inflow.

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 Capacity Analysis in Section 8.3, if improvements are needed to the CSA 24 Sewer System, a Capital Improvement Program (CIP) and funding program will be developed to meet those needs. Currently the area does not require any improvements.

8.5 CIP Schedule

The proposed schedule for 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.

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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 24 (Applegate) 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 Pump 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	1	0
Gravity Sewers	Miles	Sewer Rehabilitation Pipe Lining	Linear Feet	0	0	0	0	0

Table 9.1 CSA 24 (Applegate) 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
Force Mains	Miles	Force Main Pigged	Miles	0	0	0	0	0
Manholes	Each	Manholes Rehabilitation	Count	0	0	0	0	0
Pump Stations	Each	Pump Station Major Rehabilitation	Count	0	0	0	0	0
STEP Tanks	Each	Tanks Pumped	Count	0	0	0	0	0
STEP Units	Each	Units Repaired	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 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 2 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 5 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 ten times. 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 COMMUNICATION 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 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 “Communication 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 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.**