

**Volume 9**  
**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 ten separate sanitary sewer systems within the County. Nine of the ten 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 tenth sewer system serves the Cabin Creek Facility, with the property being owned by the County. On May 2, 2006, the State Water Resources Control Board adopted Order 2006-003 which required all public owned sewer systems in the State with more than one mile of pipe to develop a Sewer System Management Plan (SSMP). Volume 1 (All Districts), 2 (Appendix) and this volume are the SSMP for this District and the reader should refer to Volume 1 Introduction for a detailed description of that State requirement.

**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 for their sewer flow. By the early 1970s, the pond began to fail and a number of septic systems began having problems. This prompted the County to obtain a federal Clean Water Grant to provide public sewer 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. A County Service Area was formed around the community to provide operation and maintenance of the new 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 and by 1985, approximately 15 new homes were built and connected. By then 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 37 Equivalent Dwelling Units. No new connections have been added to the sewer system since 1985.

The State Central Valley Regional Water Quality Control Board has ordered existing wastewater treatment ponds at CSA 24 cease discharging into the adjacent creek and into the underlying groundwater. In a settlement with the Regional Board, they ordered a pipeline be constructed from Applegate to the existing Sewer Maintenance District 1 sewer system in North Auburn and the treatment ponds be abandoned. The design and environmental work for the project has been underway since Spring 2009.

A district map is provided in Section 4a.1 of this Sewer System Master Plan. As of July 2008, CSA 24 has two 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 that at which more specific objectives of this SSMP are aimed. Even though Placer County could develop a number of very specific goals as developed in further sections of this SSMP, they are best summed up in the following general goals.

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

As mentioned in the introduction to this Sewer System Master Plan (SSMP), a number of requirements or sections of the SSMP provide data pertaining to all ten County maintained public sewer systems and there is no reason to duplicate the information. This section is one of those sections and it can be found in its entirety in Volume 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 Sewer System Master Plan (SSMP), a number of the requirements or sections of the SSMP provide data pertaining to all ten 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 Volume 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 ten wastewater collection systems owned and maintained by Placer County (see Table Int-1), five have their own wastewater treatment systems and do not rely on other agencies for wastewater treatment. The remaining five 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 ten sewer systems and their two satellite systems somewhat complicated. CSA 24 has its own wastewater treatment system and thus is not a satellite collection system. An explanation of the districts legal authority is as follows:

### **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 does regulate many industrial types of discharges that could have adverse effects on collection systems.

Section 3, of the State's GWDR, 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, GWDR 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”** and a separate copy can be obtained at the Facility Service’s front counter or the Community Development Resources Agency 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://ordlink.com/codes/placer/index.htm>.

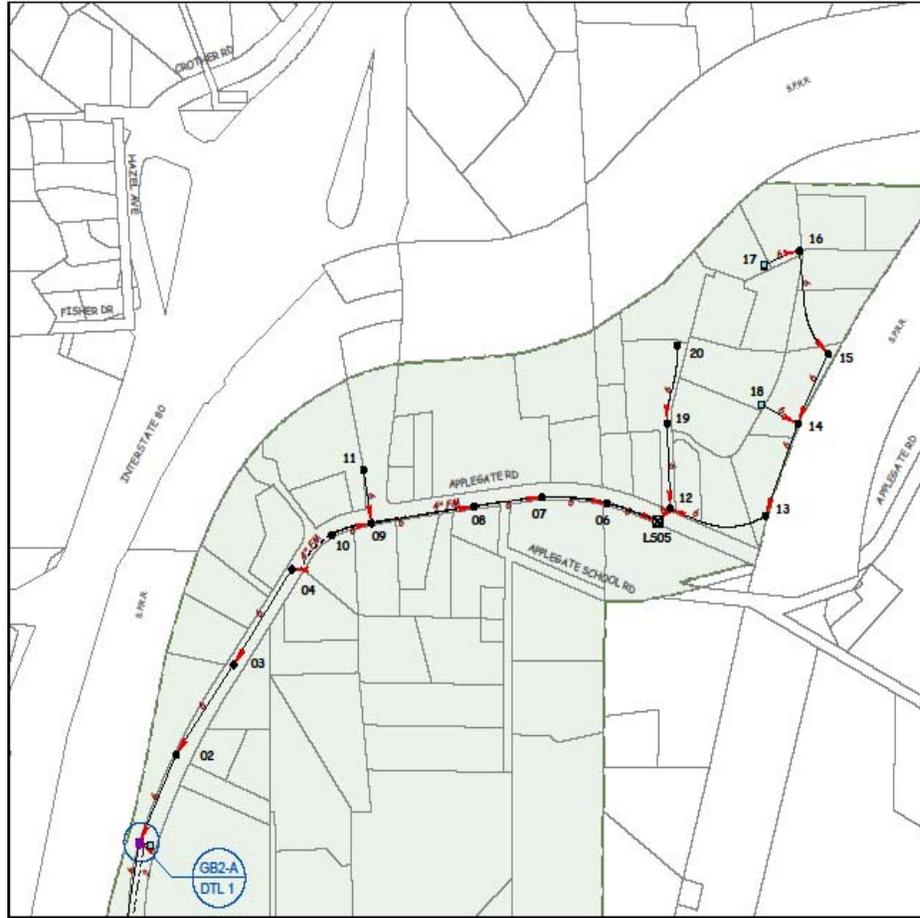
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**4.0 OPERATIONS AND  
MAINTENANCE PROGRAM**

**4a.0 Collection System Map**

**4a.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 ten 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. Index map copies and one of the individual map pages for CSA 24 are contained in the following two pages. Wall maps of the entire sewer district are available for public review at the front counter of the Community Development Resource Agency and the Environmental Engineering Offices.



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

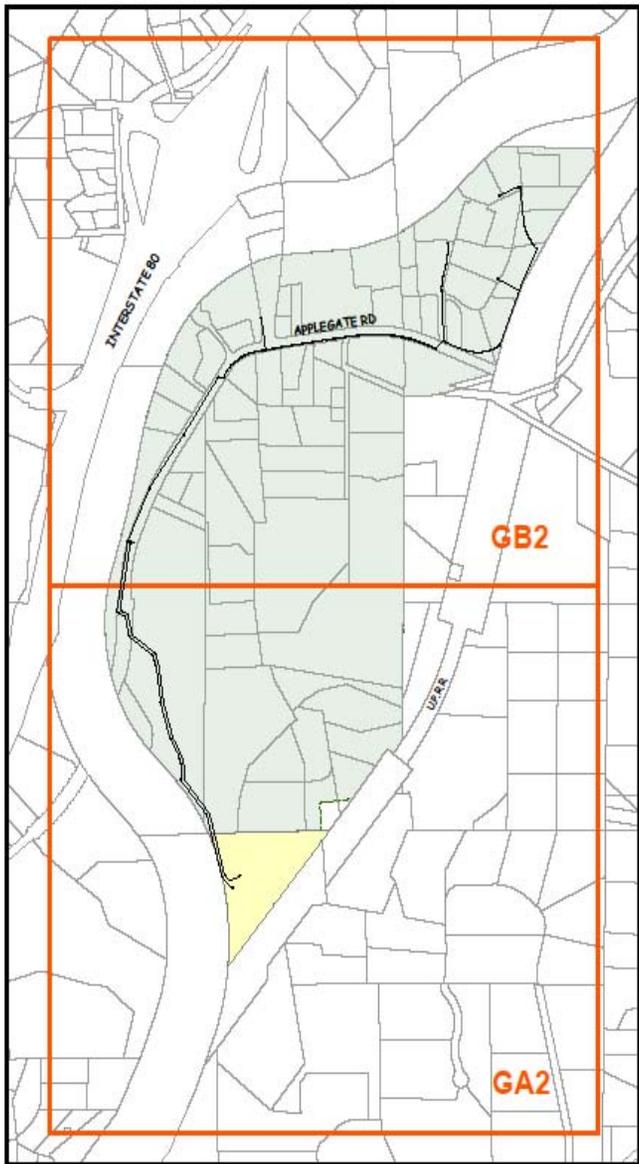


SCALE: 1" = 400'

PLACER COUNTY



FACILITY SERVICES



**MAP  
INDEX**

**APPLEGATE**  
CSA 28 - ZONE 24  
SANITARY SEWER

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PLACER COUNTY



FACILITY SERVICES

## **4b.0 Preventive Operation and Maintenance**

### **4b.1 Introduction**

As mentioned in the introduction to this Sewer System Master Plan (SSMP), a number of the requirements or sections of the SSMP provide data pertaining to all ten 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 Volume 1 and 2. **The reader should refer to those binders for information regarding the “Preventive Operation and Maintenance” requirements.**

## **4c.0 Rehabilitation and Replacement Plan**

### **4c.1 Introduction**

As noted in Volume 1, “All districts SSMP”, Section 4c, in order to develop a Rehabilitation and Replacement Plan for a sewer system, first a Condition Assessment of the sewer system must be completed. Methods of doing a Condition Assessment are detailed in Section 4c. **Before proceeding with this section of this SSMP, the reader should review Section 4c of Volume 1 to better understand the methods chosen to evaluate this sewer system.**

### **4c.2 Condition Assessment, Rehabilitation, and Replacement Plan**

As noted in Section 4c, before a Rehabilitation and Replacement (R&R) Plan 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 ten sewer districts maintained by Placer County vary in size from 0.5 miles to 118 miles of pipe and have 41 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 sheer 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 only 2.0 miles of sewer pipe and has one sewage pump station.
- Some CCTV work or smoke testing has been done in recent years. In 2007, a portion of the sewer system (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. Several times in the last 20 years there have been overflows of the pump station.
- No Condition Assessment or Rehabilitation and Replacement Plans have been developed.

Therefore, it is recommended that the sewer 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 Rehabilitation and Replacement Plan.

### **4c.3 CSA 24 Rehabilitation and Replacement Schedule**

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

<b>Proposed Project</b>	<b>Completion Year</b>
Televise Sewers	2013
Manhole Inspections	2013
Smoke Testing	2013
Pump Station Evaluation	2013
Condition Assessment Report	2014
Rehab and Replacement Plan developed (if needed)	2014
Funding Program (if needed)	2015

## **4d.0 Training**

### **4d.1 Introduction**

As mentioned in the introduction to this Sewer System Master Plan (SSMP), a number of the requirements or sections of the SSMP provide data pertaining to all ten 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 Volume 1 and 2. **The**

reader should refer to those binders for information regarding the “Training” requirements.

## **4e.0 Contingency Equipment and Replacement Inventories**

### **4e.1 Introduction**

As mentioned in the introduction to this Sewer System Master Plan (SSMP), a number of the requirements or sections of the SSMP provide data pertaining to all ten 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 Volume 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**

### **5a.0 Standards for Installation, Rehabilitation, and Repair**

#### **5a.1 Introduction**

As mentioned in the introduction to this Sewer System Master Plan (SSMP), a number of the requirements or sections of the SSMP provide data pertaining to all ten 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 Volume 1 and 2. **The reader should refer to those binders for information regarding the “Design and Performance Standards” requirements.**

### **5b.0 Standards for Inspection and Testing of New, Rehabilitated, and Repaired Facilities**

#### **5b.1 Introduction**

As mentioned in the introduction to this Sewer System Master Plan (SSMP), a number of the requirements or sections of the SSMP provide data pertaining to all ten 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 Volume 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 Sewer System Master Plan (SSMP), a number of the requirements or sections of the SSMP provide data pertaining to all ten 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 Volume 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 small, only two miles in length with only 28 parcels (37 EDUs) connected to the sewer. There are no FOG producing commercial establishments connected to the sewer; however, there is one small apartment complex.

### **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 C”. A Public Education Outreach Program should be developed and the apartment complex 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 small, 2.0 miles of pipe. Furthermore, there are currently only 28 parcels of land connected to the sewer system and the CSA has a connection ban in effect due to lack of capacity in its wastewater treatment ponds. There has been some dry and wet weather flow monitoring in this sewer system and the area does experience a moderate amount of Infiltration and Inflow.

For the small amount of existing and future connections in CSA 24, the existing sewer system should be sufficient to move wastewater flows to the treatment ponds and the collection system should be analyzed. However, as noted in CSA 24 History and Description, due to effluent quality problems with the district wastewater treatment ponds, a design is currently underway to construct an off-site sewer line that will connect Applegate to the SMD 1 North Auburn sewer system. Therefore, the study of the existing system will need to be completed independently of the new treatment study and then modified when the new sewer is completed.

### **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 current study on the Applegate treatment and disposal system, a Capital Improvement Program and funding program will be developed to upgrade the sewer and treatment system. Any improvements needed to the existing sewer system can be added to that program. However, at this time, the 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 Assessment</b>	<b>Completion Year</b>
Flow Metering	Completed
Capacity Analysis and report completed	2010
Capital Improvement Program and report completed	2010
Funding Program and report completed	2010

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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 Sewer System Management Plan. Once all programs and projects listed in the previous chapters are implemented, they need to be monitored and measured in some form 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.

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

Section 9 (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 three years for those activities to provide a baseline for evaluation.

**Table 9.1 CSA 24 (Applegate) Measurement Categories**

Category	Current District Total 7/1/08	Description	Unit	Number By Year				
				2004	2005	2006	2007	2008
SSOs	--	Caused by Roots	Count					
SSOs	--	Caused by Grease	Count					
SSOs	--	Caused by Contractors	Count					
SSOs	--	Caused by Vandalism	Count					
SSOs	--	From Pump stations	Count					
SSOs	--	From Other Causes	Count					
SSOs	--	Total Category 1	<b>Count</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
SSOs	--	Total Category 2	<b>Count</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
SSOs	--	Total per 100 Miles per Year	Count	0	0	0	0	0
Gravity Sewers	1.4 Miles	CCTV Inspection Sewers	Miles	0.06	0	0	0.40	0
Gravity Sewers	1.4 Miles	Clean Sewers	Miles	0.13	0.05	0.05	1.21	0.05
Gravity Sewers	1.4 Miles	Sewer Rehabilitation Dig and Repair	Count	0	0	0	1	0
Gravity Sewers	1.4 Miles	Sewer Rehabilitation Pipe Lining	Linear Feet	0	0	0	0	0

**Table 9.1 CSA 24 (Applegate) Measurement Categories (continued)**

Category	Current District Total 7/1/08	Description	Unit	Number By Year				
				2004	2005	2006	2007	2008
Gravity Sewers	1.4 Miles	Smoke Test Sewers	Miles	0	0.66	0	0.19	0
Gravity Sewers	1.4 Miles	Root Treatment	Miles	0	0	0	0	0
Force Mains	0.7 Miles	Force Main Pigged	Miles	0	0	0	0	0
Manholes	27 Each	Manholes Rehabilitation	Count	2	0	6	0	0
Pump Stations	1 Each	Pump Station Major Rehabilitation	Count	Data Not Available	Data Not Available	Data Not Available	Data Not Available	0
Flow Meters - Temporary	--	Number of Flow Meter Days	Count	Data not available	FY 2005-06 0	FY 2006-07 161	FY 2007-08 279	FY 2008-09 In Progress

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

The GWDR requires Placer County to monitor the effectiveness of the SSMP and the success of the preventative maintenance program. Several years of data collected under the previous section for this district will be needed before this requirement can be completed. It is expected that the appropriate sections of this district's SSMPs will be completed after the end of Fiscal Year 2013-14, allowing two full years of data.

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

Based on data collected through Fiscal Year 2013-14 for this district, SSMP program elements can be updated based on their performance. This update should be completed in the first half of FY 2014-15.

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

Placer County began reporting SSOs on the State Water Resources Control Board's web based reporting system on September 2007. The information placed into that data base is extensive and adequately identifies and illustrates each SSO after September 2007. During the preparation of the district SSMP, SSO information was collected from 2004 to the present and is presented in Table 9.1, depicting five years of overflow trends.

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## **10.0 SSMP PROGRAM AUDITS**

### **10.1 Introduction**

As mentioned in the introduction to this Sewer System Master Plan (SSMP), a number of the requirements or sections of the SSMP provide data and information that pertain to all ten of the Placer County maintained public sewer systems and there is no reason to duplicate that information ten times. This section is one of those and it can be found in its entirety in Volume 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 Sewer System Master Plan (SSMP), a number of the requirements or sections of the SSMP provide data pertaining to all ten 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 Volume 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 Sewer System Master Plan (SSMP), a number of the requirements or sections of the SSMP provide data pertaining to all ten 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 Volume 1 and 2. **The reader should refer to those binders for information regarding the “SSMP Completion and Certification” requirements.**