

**Volume 8**  
**PLACER COUNTY SERVICE AREA 28, ZONE 23**  
**(CSA 23) BLUE CANYON**  
**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 (SSO) 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 23 HISTORY AND DESCRIPTION**

The community of Blue Canyon was a railroad town on the Southern Pacific transcontinental rail line over the Sierra Nevada Mountains. Prior to 1913, all trains traversing the mountains stopped at Blue Canyon to change crews and equipment. There were a number of people who lived full time in the town, along with hotels, bars and food establishments. Then in 1913, new rail equipment and upgrades were made to the railroad tracks. A result of the improvements to the tracks meant that the railroad no longer stopped at Blue Canyon. Many people moved and most of the homes became summer homes. Piped water was still provided to the summer homes through a water system operated by the railroad; however, by the 1960s problems were noticed with private leach fields. In 1973, a federal Clean Water Grant was obtained and a small public sewer system was constructed including a community septic tank and leach field. Currently, twenty five summer homes are connected to the sewer system which is operated by a County Service Area formed after the sewers were constructed. Due to the lack of occupancy, the sewer system has very low flows since only a few of the homes are occupied year round. There is only 0.5 miles of sewer pipe in the CSA. A district map is provided in Section 4a.1 of this Sewer System Master Plan.

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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 23 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 23, 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.



FA1

# BLUE CANYON

CSA 28 - ZONE 23  
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" = 200'

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, to in order to develop a Rehabilitation and Replacement Plan for a sewer system, 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 the gravity sewer lines.
- Smoke testing sewer lines.
- Hydro cleaning sewer lines.
- Visual inspection of manholes.
- A 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 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 sheer volume of work to be completed and analyzed. In those districts, dividing the sewer district into smaller

sections is a feasible way of completing the project over a number of years rather than all at once.

In the case of CSA 23, the following information is available:

- The CSA has only 0.5 miles of sewer pipe and no sewage pump stations.
- No CCTV work or smoke testing has been performed in recent years.
- No sewer system overflows have been recorded except for a storm related washout of an existing sewer pipe.
- No Condition Assessment or Rehabilitation and Replacement Plans have been developed.

Therefore, it is recommended the sewer system and manholes be inspected, smoke tested and a condition assessment be completed prior to the preparation of a Rehabilitation and Replacement Plan.

### 4c.3 CSA 23 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	2015
Manhole Inspections	2015
Smoke Testing	2015
Pump Station Evaluation	NA
Condition Assessment Report	2015
Rehabilitation and Replacement Plan developed (if needed)	2015
Funding Program (if needed)	2016

## 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 23 SSMP, the reader should review Section 7 of Volume 1 to better understand the methods chosen to control FOG in the CSA 23 Sewer System.**

### **7.2 Existing CSA 23 Sewer System**

See the “Introduction” of this SSMP, CSA 23, History and Description, for a summary of the district sewer system. As noted at that location, the existing sewer system at Blue Canyon is very small, containing 0.5 miles of pipe. There are currently 25 summer homes connected to the district’s six inch sewer pipes and a 25,000 gallon septic tank. There are also a few additional homes not connected (still on septic) and a few empty lots in Blue Canyon; however, it is unlikely they will ever be connected to the sewers. The surrounding land is forest. Accordingly, the CSA 23 sewer system is not expected to be expanded in the near future. Furthermore, due to the lack of year round occupancy of the summer homes, there has never been a FOG related SSO in the system or septic tank. The septic tank was cleaned after 20 years of operation, and did not contain any accumulated grease.

### **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”. Due to the lack of flow and grease in the sewer system, the “Do Nothing” program is proposed.

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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 23 SSMP, the reader should review Section 8 of Volume 1 to better understand the methods chosen to evaluate the CSA 23 sewer system.**

### **8.2 Existing CSA 23 Sewer System**

See the “Introduction” of this SSM, CSA 23 History and Description, for a summary of the district sewer system. The existing sewer system at Blue Canyon is very small, 0.5 miles of pipe. There are currently 25 summer homes connected to the district’s six inch sewer pipes and a 25,000 gallon septic tank. There are also a few additional homes not connected (still on septic) and a few empty lots in Blue Canyon; however, it is unlikely that they will ever be connected to the sewers. The surrounding land is forest. Accordingly, the CSA 23 sewer system is not expected to be expanded in the near future. Furthermore, minimal infiltration and inflow has been observed in Blue Canyon in the past and low dry weather flows are often hard to measure due to lack of permanent occupancy of the connected summer homes.

### **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 A”.

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

Based on the results of the future capacity analysis proposed in Section 8.3, if improvements are needed to the CSA 23 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 Assessment</b>	<b>Completion Year</b>
Flow Metering	Assumed
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 districts, 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 base line for evaluation.

**Table 9.1 CSA 23 (Blue Canyon) 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	Count	0	0	0	0	0
SSOs	--	Total Category 2	Count	0	0	0	0	0
SSOs	--	Total per 100 Miles per Year	Count	0	0	0	0	0
Gravity Sewers	0.5 Miles	CCTV Inspection Sewers	Miles	0	0.03	0	0	0.08
Gravity Sewers	0.5 Miles	Clean Sewers	Miles	0	0.06	0	0	0.10
Gravity Sewers	0.5 Miles	Sewer Rehabilitation Dig and Repair	Count	0	0	0	0	2
Gravity Sewers	0.5 Miles	Sewer Rehabilitation Pipe Lining	Linear Feet	0	0	0	0	0

**Table 9.1 CSA 23 (Blue Canyon) Measurement Categories (continued)**

Category	Current District Total 7/1/08	Description	Unit	Number By Year				
				2004	2005	2006	2007	2008
Gravity Sewers	0.5 Miles	Smoke Test Sewers	Miles	0	0	0	0	0
Gravity Sewers	0.5 Miles	Root Treatment	Miles	0	0	0	0	0
Manholes	11 Each	Manholes Rehabilitation	Count	0	0	0	0	0
Mapping	--	New Sewers Mapped	Miles	0	0	0	0	0
Flow Meters - Temporary	--	Number of Flow Meter Days	Count	0	0	0	0	0

### **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 2008-09, allowing two full years of data.

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

Based on data collected through Fiscal Year 2008-09 for this district, SSMP program elements can be updated based on their performance. This update should be completed in the first half of FY 2009-10.

### **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 provided in the table above, 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 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 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.**