

Volume 7
PLACER COUNTY SERVICE AREA 28, ZONE 6
(CSA 6) SHERIDAN
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 6 HISTORY AND DESCRIPTION

The community of Sheridan has been in existence since the beginning of the 20th Century. It was a township divided into city blocks made up of 25 foot wide lots. During these early years, homes were built on groups of lots depending on how much land a homeowner wanted. The homes had individual wells and septic systems, mostly using seepage pits. By the 1960s, the majority of structures in Sheridan had wells that were contaminated by the seepage pits. The problem generated a federal loan/grant program and in 1973, led to the construction of two public water wells, a water distribution system, sewage collection system and two wastewater treatment ponds. Once completed, mandatory connection to both the sewer and water system initiated.

Between 1973 and 1985, several small sewer extensions were constructed and approximately 50 new homes were built in the community. Then, due to lack of capacity in the wastewater treatment ponds, a moratorium was placed on new connections to the sewer system by the State of California. The moratorium and the lack of land and soil for leach fields resulted in no new homes built in Sheridan since 1985 with exception of homes built where existing homes were removed. At the present time, there are 212 equivalent dwelling units connected to an approximately 3 mile long sewer system in Sheridan.

In 2005, CSA 6 applied for and received a Community Development Block Grant to assist the district in correcting an Infiltration and Inflow (I/I) problem. I/I is groundwater that enters the sewage system through broken sewer pipes (Infiltration) and surface water that enters the sewer through some inlet (Inflow). That year, 60 separate locations in the public sewer system were repaired and funds were made available for property owners to also repair their private upper laterals. Again, in 2007, a second grant was applied for and received which repaired an additional 43 pipe locations, completing the remainder of the services district. Flow monitoring is now underway to evaluate the effectiveness of this work.

A district map is provided in Section 4a.1 of this Sewer System Management 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.

As mentioned in the introduction to this Sewer System Management 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 Management 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 6 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 used by maintenance personnel. Index map copies and one of the individual map pages for CSA 6 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.



DC1	DC2
DB1	DB2
DA1	DA2

SHERIDAN
 CSA 28 - ZONE 6
 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 Management 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, 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.
- 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 6, the following information is available:

- The CSA has only three miles of sewer pipe and one sewage pump station.
- The entire sewer system for the CSA was televised in 2004 and used to produce a condition assessment that helped secure two Community Development Block Grants for Sheridan. Between the two, 103 separate repairs were made to the sewer system and manholes in an effort to reduce I/I. The repair work was done by contract in 2005 and 2007.
- During 2007, 0.99 miles of sewer pipe were smoke tested and 15 defects were located and corrected. Many of the defects involved area drains and caps intentionally left off cleanouts to act as area drains. This problem has been on-going with the community of Sheridan where property owners are intentionally using the sanitary sewer system as a drain.
- Dry weather and wet weather flow monitoring is now on-going to evaluate the effectiveness of the above repair work.
- No sewer system overflows have been recorded in the district in the past five years.

Due to the recent condition assessment and rehabilitation and replacement project at CSA 6, it is recommended that on-going flow measurements be evaluated to determine the effectiveness of the work. Once that is done, an additional condition assessment can be completed, if needed. It is recommended that the community be smoke tested every two years in an effort to reduce inflow. Due to the recent repair work, the sewer system does not need to be televised again until 2010.

4c.3 CSA 6 Rehabilitation and Replacement Schedule

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

Proposed Project	Completion Year
Televise Sewers	2011
Manhole Inspections	2010
Smoke Testing	2010
Pump Station Evaluation	Completed
Condition Assessment Report (if needed)	2012
Rehab and Replacement Plan developed (if needed)	2012
Funding Program (if needed)	2013

4d.0 Training

4d.1 Introduction

As mentioned in the introduction to this Sewer System Management 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 Management 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 Management 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 Management 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 Management 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 6 SSMP, the reader should review Section 7 of Volume 1 to better understand the methods chosen to control FOG in the CSA 6 Sewer System.**

7.2 Existing CSA 6 Sewer System

See the “Introduction” of this SSMP, CSA 6 History and Description, for a summary of the district sewer system. As noted at that location, the existing sewer system at Sheridan is approximately 3 miles in length and all but three of the connections are residential. Those three 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 a combination of “Program B” and “Program D”. A Public Education Outreach Program should be developed and the two commercial connections should be inspected for FOG control.

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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 6 SSMP, the reader should review Section 8 of Volume 1 to better understand the methods chosen to evaluate the CSA 6 sewer system.**

8.2 Existing CSA 6 Sewer System

See the “Introduction” of this SSMP (CSA 6 History and Description) for a summary of the district sewer system. The existing sewer system at Sheridan is small, 3.0 miles of pipe and 240 equivalent connections to the sewer system. CSA 6 has substantial Infiltration and I/I for its size and, as noted in “History and Description” in the last several years there has been a considerable amount of work completed on the sewer system to correct the problem. Flow monitoring is currently being completed (Winter 2007-08) and will be available for use with future capacity analysis.

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 6 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:

Proposed Assessment	Completion Year
Flow Metering	Completed
Capacity Analysis and report completed	2010
Capital Improvement Program and report completed	2010
Funding Program and report completed	2011

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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 of 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) listed 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 base line for evaluation.

Table 9.1 CSA 6 (Sheridan) 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	2.8 Miles	CCTV Inspection Sewers	Miles	0.28	0.18	0.07	0.48	0
Gravity Sewers	2.8 Miles	Clean Sewers	Miles	3.39	1.68	2.44	3.71	3.05
Gravity Sewers	2.8 Miles	Sewer Rehabilitation Dig and Repair	Linear Feet	5	52	26	0	0
Gravity Sewers	2.8 Miles	Sewer Rehabilitation Pipe Lining	Linear Feet	0	0	0	0	0

Table 9.1 CSA 6 (Sheridan) Measurement Categories (continued)

Category	Current District Total 7/1/08	Description	Unit	Number By Year				
				2004	2005	2006	2007	2008
Gravity Sewers	2.8 Miles	Smoke Test Sewers	Miles	0	0	0	0.99	0.29
Gravity Sewers	2.8 Miles	Root Treatment	Miles	0	0	0	0	0.55
Manholes	46 Each	Manholes Rehabilitation	Count	0	1	0	0	0
Pump Stationss	1 Each	Pump Stations 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	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 this district's SSMP, SSO information was collected from 2004 to the present and is provided 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 Management 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 Management 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.**