DATE: May 14, 2014

TO: Honorable Board of Directors
Sacramento Area Sewer District

FROM: Sacramento Area Sewer District

SUBJECT: Approve the Updated Sewer System Management Plan

RECOMMENDATION:

It is recommended that your Board approve the updated Sewer System Management Plan (SSMP) for the Sacramento Area Sewer District (SASD) to comply with the Statewide General Waste Discharge Requirements (WDRs).

BACKGROUND:

On May 2, 2006, the California State Water Resources Control Board (SWRCB) adopted the Statewide General Waste Discharge Requirements (WDRs), Order No. 2006-0003, for all publicly-owned sanitary sewer collection systems. SASD’s collection system is subject to the requirements of the Statewide WDRs. The WDRs require that all publicly-owned collection systems greater than one mile in length take all feasible steps to prevent Sanitary Sewer Overflows (SSOs), develop an SSMP, and comply with WDR reporting requirements. The WDRs require that the agency’s governing board approve the completed SSMP at a public meeting.

On April 8, 2009, your Board approved SASD’s first SSMP.

On September 28, 2011, your Board approved revisions to the SSMP that included the District Engineer’s authority to make non-consequential changes to the SSMP and a new reference section describing SASD’s Root Control Program.
DISCUSSION:

The SSMP provides SASD a system-wide living management plan for the operation, maintenance, expansion, repair, and replacement of the District’s sewer collection system that meets the requirements of the WDRs.

Notable SSMP changes include the following:
- Consolidated the overall structure of the document and the information in the tables and figures to reduce reference document redundancy and provide ease of use.
- Updated Section 15.3.3 Asset Management Plan and Staffing Projections to better describe the purpose of the documents.
- Updated Section 15.3.4 Funding Needs Assessments to consolidate information.

Board approval of the updated SSMP will satisfy SASD’s compliance with the WDRs. SASD will then complete the certification process in the SWRCB’s electronic database. The SSMP and the Reference Documents are included on a compact disc as Attachment B. Two hard copies of the documents included on the disc will be available for your review at the Board meeting.

FINANCIAL ANALYSIS:

There are no financial impacts associated with the update of the SSMP.

CONCLUSION:

It is recommended that your Board approve the updated Sewer System Management Plan.

Respectfully submitted,

Rosemary Clark
Director of Operations

Approved:

Prabhakar Somavarapu
District Engineer

Attachments: A. SASD’s SSMP
B. SASD’s SSMP and Reference Document (on enclosed disc)

Contact for additional information: Rosemary Clark, Director of Operations, 875-6663
Sewer System Management Plan

<table>
<thead>
<tr>
<th>Category (check applicable):</th>
<th>[x] Policy [ ] Process [ ] Procedure [ ] Strategy [ ] Program [ ] SupMat.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purpose;</td>
<td>The purpose of this document is to describe the Sewer System Management Plan (SSMP) of the Sacramento Area Sewer District (District).</td>
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<tr>
<td>Version Date:</td>
<td>May 14, 2014</td>
</tr>
<tr>
<td>Effective Date:</td>
<td>May 14, 2014</td>
</tr>
<tr>
<td>Original or Revision:</td>
<td>Revision</td>
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<tr>
<td>Review/Revise Cycle:</td>
<td>12 months / 60 months</td>
</tr>
<tr>
<td>Key Stakeholders:</td>
<td>SASD – All Units</td>
</tr>
<tr>
<td>Approving Authority</td>
<td>Prabhakar Somavarapu, District Engineer</td>
</tr>
<tr>
<td>(name/position):</td>
<td></td>
</tr>
<tr>
<td>Sponsor (name/position):</td>
<td>Rosemary Clark, Director of Operations</td>
</tr>
<tr>
<td>Owner (name/position):</td>
<td>Patrick Schroeder, Engineering Manager</td>
</tr>
<tr>
<td>Author (name):</td>
<td>Michael Grinstead, SSMP Strategy Analysis</td>
</tr>
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<td>File Name and Location:</td>
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Approved By:
Prabhakar Somavarapu
District Engineer

Signature: [Signature]
Date: [4/25/14]

Approval Recommended By:
Rosemary Clark
Director Of Operations

Signature: [Signature]
Date: [4/24/14]
## SSMP Change Log

<table>
<thead>
<tr>
<th>Date of Approval</th>
<th>Approving Authority (Board / LRO)</th>
<th>Change Description</th>
<th>LRO Initial</th>
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</thead>
</table>
| 5/14/2014        | BOARD                             | • Consolidated the overall structure of the document and the information in the tables and figures to reduce reference document redundancy and provide ease of use.  
• Updated Section 15.3.3 Asset Management Plan and Staffing Projections to better describe the purpose of the documents.  
• Updated Section 15.3.4 Funding Needs Assessments to consolidate information. | RMC         |
| 4/18/2014        | LRO                               | • Consolidated all of the reference documents into one document titled Reference Document for the Sewer System Management Plan. Section 100 was added for clarity and to consolidate information.  
• Updates were made to Section 402 Crush Collapse Failure Mode Strategy, Section 509 Televised Inspection Policy, and Section 512 Root Control Program. Updates were made to reflect the current organizational structure and to include new root control actions that took place since the last update. | RMC         |
| 5/14/2014        | LRO                               | • The SASD Training Policy was updated to describe the purpose and policy, training requirements, current existing training program, and in-progress competency based training program improvements. The policy was also updated to reflect organizational changes and to describe the District's repositories for training history. | RMC         |
| 1/2/2014         | LRO                               | • The Management Plan Assessment Program was updated. The Asset Management Round Table Team and SASD Management Meeting sections were updated. | RMC         |
| 1/1/2014         | LRO                               | • The Mapping Update Policy and Process was reapproved after review with no changes. | RMC         |
| 12/31/2013       | LRO                               | • The Customer Call Handling and Service Request Creation Policy was rewritten from scratch. | RMC         |
| 11/1/2013        | LRO                               | • The SSMP Communication Program was reapproved after review with no changes. | RMC         |
| 10/29/2013       | LRO                               | • Updated the location of the Sanitary Sewer Overflow Response Procedures to the internet. | CD          |
| 9/4/2013         | LRO                               | • The Pressurized Asset Management Strategy was updated to conform to current layout, practices, and organizational structure. References to failure mode and assessment strategies were added. A reference to the decision-making processes in the Management Plan Assessment Program was added.  
• The Pump Station Structural Assessment Strategy was updated to conform to current layout, practices, and organizational structure. A description of monthly and annual routine inspections was added. The aerial force main inspection schedule was updated and the rainfall inspection trigger was included. A reference to the Standards and Specifications was also included. | CD          |
| 7/8/2013         | LRO                               | • The Lower Lateral Stoppage Failure Mode Strategy was updated with changes to the BIS Reduction Program, including changing the program to focus on CCTV inspection and cleanout installation. The word "shall" was changed to "will" throughout the document. A sentence in the Lower Lateral Overflow Reduction Program was updated to clarify which main lines will be cleaned as part of the program. | CD          |
| 6/4/2013         | LRO                               | • The SSMP Document Update and Storage Policy was updated to remove the Standards and Specifications Strategy, the SASD Sewer Use Ordinance Update Flow Diagram, and the Procedure for Deviations from the District Standards and Specifications.  
• The FOG Program was renamed the SASD Comprehensive FOG Control Program and the document was updated. Significant additions were made to the program including addition of the Standards and Specifications, building codes, SASD policies and procedures, and an ordinance and code list. The document was also updated to reflect changes in current practices and changes in organizational structure. | CD          |
| 5/10/2013        | LRO                               | • The SSMP Audit Procedures was updated. A Purpose section was added and changes were made to the Process and Procedures sections.  
• The Underground Facility Damage Investigation Process was updated. Updates to the signature page were made due to organizational structure and changes in personnel. The title was changed from Underground Facility Damage Investigation Policy/Procedure to the present title. The document was reorganized, the Policy and Background sections were removed, and the Process section was added. Changes to the document were made to update the process to align the process with the current organizational structure and current practices. | CD          |
<p>| 4/5/2013         | LRO                               | • Added note to Lower Lateral Repair — Maintain — Replace Decision Policy and Main Line Cracked, Broken, Missing, and Collapsed Pipe Decision Policy defining when to notify your manager of a possible SSO. The background section of the Lower Lateral Repair — Maintain — Replace Decision Policy was updated to state that any SSO is governed by the SSO Emergency Response Procedures. | CD          |
| 3/25/13          | LRO                               | • The Loss of Support Failure Mode Strategy has been updated to include the Creek Protection Project as part of the background section of the document. The Creek Protection Project is now part of the proactive and reactive approaches in the Strategy section of the document. Divided the Strategy section into Proactive approach and Reactive approach. Removed the Consequence section from the document. Updated Roles &amp; Responsibilities to reflect current organizational structure and practices. Included a Definitions section in the document. Updated to reflect current organizational structure. Added an Effectiveness Measure section to the document. Included Standards and Specifications as part of the strategy. Changed &quot;ravine&quot; to &quot;creek&quot; and updated the definitions. | CD          |
| 3/15/2013        | LRO                               | • Updated the Organization Chart in the Board approved SSMP to reflect current SASD operations. | SD          |
| 1/30/2013        | LRO                               | • Updated the location of the Sanitary Sewer Overflow Response Procedures to the internet. | SD          |</p>
<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
<th>Change Details</th>
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</thead>
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<tr>
<td>12/19/2012</td>
<td>The Main Line Cracked, Broken, Missing, and Collapsed Pipe Decision Policy has been updated to include changes in the organization, the write up has been simplified and clarified, and the flow chart has been updated.</td>
<td>CD</td>
</tr>
<tr>
<td>12/12/2012</td>
<td>The Main Line Stoppage failure Mode Strategy was updated to reflect current practices which include the addition of Facilities Scheduled Maintenance.</td>
<td>CD</td>
</tr>
<tr>
<td>11/10/2012</td>
<td>The Pump Station Component Failure Mode Strategy was updated to reflect current practices.</td>
<td>CD</td>
</tr>
<tr>
<td>10/16/2012</td>
<td>Updated Lower Lateral Stoppage Failure Mode Strategy. Updated LLORP lateral selection. Included Backup Into Structure (BIS) Program.</td>
<td>CD</td>
</tr>
<tr>
<td>9/21/2012</td>
<td>Removed the repealed Easement Access Policy Procedures from the SSMP. Inserted an Easement access reference page in place of the procedures.</td>
<td>CD</td>
</tr>
<tr>
<td>8/21/2012</td>
<td>Updated the flow chart has been updated. Which include the addition of Facilities Scheduled Maintenance Strategy.</td>
<td>CD</td>
</tr>
<tr>
<td>7/18/2012</td>
<td>Updated Sanitary Sewer Overflow (SSO) Assessment Program. Changed the revise cycle from 12 months to 24 months. Updated the Sponsor and Author. Updated to include the FOG Control Program and Root Control Program. Added an Effectiveness Measure to the Program.</td>
<td>CD</td>
</tr>
<tr>
<td>5/15/2012</td>
<td>Updated Damage By Others Failure Mode Strategy. Updated to align with organizational structure and with current practices.</td>
<td>CD</td>
</tr>
<tr>
<td>5/3/2012</td>
<td>Updated Main Line Stoppage Failure Mode Strategy. Included in the update was a &quot;hold&quot; put in place of MLORP for the duration of the Consent Decree Main Line Cleaning Program. In section 10.1 changed wording of &quot;sewer sheds&quot; to &quot;grids.&quot; Corrected typo error of a date in section 10.1.</td>
<td>CD</td>
</tr>
<tr>
<td>4/23/2012</td>
<td>Updated Crush Collapse Failure Mode Strategy. Included in the update was the addition of the Consent Decree Main Line Cleaning Program. Also included was formatting changes, the addition of the Structural Assessment Program procedures, addition of reactive and proactive programs, and adding detailed descriptions to programs.</td>
<td>CD</td>
</tr>
<tr>
<td>2/21/2012</td>
<td>Updated Main Line Stoppage Failure Mode Strategy. The update consisted of modifying the VFI Program, referencing the Quality Control for Sewer Pipe Cleaning and Incorrect Cleaning Frequency Failure Mode Strategy, and including the new Consent Decree Main Line Cleaning Program. Removed reference to the Asset Plan and removed duplicate Standards and Specifications reference.</td>
<td>CD</td>
</tr>
<tr>
<td>12/7/2011</td>
<td>Updated Sewer System Management Plan (SSMP) Document Update and Storage Policy SSMP Reference Documents table.</td>
<td>CD</td>
</tr>
</tbody>
</table>
- Added Incorrect Cleaning Frequency Failure Mode Strategy to SSMP Reference Documents.
- Included Procedure for Deviations from the District Standards and Specifications and Standards and Specifications Strategy in SSMP Reference Documents. These take the place of the Design Standards Modification or Change Request & Annual Update Procedure, which was removed.
- Updated Main Line Stopping Failure Mode Strategy section 2. Main Line Scheduled Maintenance Program (MLSM) to include Incorrect Cleaning Frequency Failure Mode Strategy and the changes to the PM requirements for 6 inch main lines.
- The Mapping Update Policy was updated and renamed the Mapping Update Policy and Process. Updates included incorporating organizational changes, updating CMMS process, and simplifying the update process diagrams. Priorities were added and milestone events were removed. Responsibility to begin map changing process is contained in the group that finds or originates the discrepancy.

<table>
<thead>
<tr>
<th>Date</th>
<th>Group</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/08/2011</td>
<td>LRO</td>
<td>Updated SSMP Communication Program to include outreach activities and to incorporate organizational changes.</td>
</tr>
</tbody>
</table>
| 9/28/2011  | Board     | Updated SSMP to include newly developed Root Control Program.  
- Added Root Control Program to SSMP Reference Documents.  
- Updated Main Line Stopping Failure Mode Strategy to include all reactive and proactive programs. |
| 6/15/2011  | LRO       | Changed District Engineer on Page 4 from Mary Snyder to Stan Dean.  
- Deleted last sentence under Certified Organization Structure Element on Page 4 of SSMP. Sentence read “The most current version of Figure 1 showing any changes is located in the most current version of Sanitary Sewer Overflow Emergency Response Plan and Resources Manual”.
- Changed Figure 1. Staff Responsible for Implementing the District SSMP. Original flow chart updated to reflect the SASD organizational change that was effective December 2010. Responsibilities were shifted. Training was added and WDR/SSMP was deleted.  
- Customer Call Handling and Customer Service Request Policy was updated, the Document owner changed; Roles and Responsibilities added Customer Care, M&O groups and their respective responsibilities, deleted Asset Management; Attachment A was deleted. |
| 2/22/2011  | LRO       | Internal Evaluations for SSMP Audit Procedures title was changed to SSMP Audit Procedures, revised 22 Feb 2011.  
- SSMP Audit Procedures: Added “Objective” section, Deleted “Frequency and Purpose of Audit” section, Updated “Christoph Dobson, Director of Operations who owns this document.  
- SSMP Audit Procedures: Process & Procedure section changed  
- SSMP Audit Procedures: Deleted Appendix A  
- SSMP Audit Procedures: Edited VI. Overflow Emergency Response Plan  
- SSO Assessment Program document was included in this update  
- SSMP Audit Procedures: Changed “Evaluation Approach and Structure”  
- SSMP Audit Procedures: “Roles & Responsibilities” section was changed |
| 4/1/2010   | LRO       | Order of document changed – now alphabetized by title vs. filed under respective assessment programs  
- SSO Response Procedures reference page changed to “a hard copy is available at 10060 Goethe Road…”  
- Under Capacity Failure Mode Strategy was revised and approved in March 2010  
- Under Capacity Failure Mode Strategy – pg 3: corrective action trigger definition changed  
- Under Capacity Failure Mode Strategy – Capacity target performance figure changed  
- Under Capacity Failure Mode Strategy – Flowchart changed  
- Under Capacity Failure Mode Strategy - Document revised to match as outlined in flowchart revisions. |
| 5/2/2009   | Board     | Original Document |

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SACRAMENTO AREA SEWER DISTRICT
SERVING YOU 24/7

Sewer System Management Plan
Developed in compliance with Waste Discharge Requirement
Water Quality Order Number 2006-0003
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   15.2 SSO Assessment Program ......................................... 11
      15.2.1 Main Line Stoppage Failure Mode Strategy .......... 12
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      15.2.3 Manhole Stoppage Failure Mode Strategy ............ 12
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      15.2.5 Damage by Others Failure Mode Strategy ............ 13
      15.2.6 Under Capacity Failure Mode Strategy ............... 13
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<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
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<td>15.2.7</td>
<td>Underground Facility Damage Investigation Process</td>
<td>13</td>
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<td>15.2.8</td>
<td>SASD Comprehensive FOG Control Program</td>
<td>13</td>
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<td>15.2.9</td>
<td>Root Control Program</td>
<td>13</td>
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<td>15.3</td>
<td>Management Plan Assessment Program</td>
<td>14</td>
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<td>15.3.1</td>
<td>Gravity Assets Management Strategy</td>
<td>14</td>
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<tr>
<td>15.3.2</td>
<td>Pressurized Assets Management Strategy</td>
<td>14</td>
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<tr>
<td>15.3.3</td>
<td>Asset Management Plan and Staffing Projections</td>
<td>15</td>
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<td>15.3.4</td>
<td>Funding Needs Assessments</td>
<td>15</td>
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<td>16.</td>
<td>Appendix A - Notice of Intent</td>
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<td>16.1</td>
<td>Appendix A – Notice of Intent (continued)</td>
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<td>17.</td>
<td>Appendix B – Board Approved Plan and Schedule</td>
<td>18</td>
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<td>17.1</td>
<td>Appendix B - Board Approved Plan and Schedule (continued)</td>
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<td>Appendix B - Board Approved Plan and Schedule (continued)</td>
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<td>17.3</td>
<td>Appendix B - Board Approved Plan and Schedule (continued)</td>
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</table>
Sewer System Management Plan

1. Purpose

The purpose of this document is to provide the Sacramento Area Sewer District (District) a system-wide living management plan for the operation, maintenance, expansion, repair, and replacement of the District's sewer collection system. The intent of this document is to be a day-to-day working management plan that also meets the requirements of the Statewide General Waste Discharge Requirements (WDR) Water Quality Order No. 2006-0003 (Sanitary Sewer Order) approved on May 2, 2006 Provisions D 13 (D13).

2. Background

The District provides wastewater collection services to approximately 270 square miles of the greater Sacramento area. Table 2-1 gives round values for various assets owned by the District. The more current asset count for any given year is recorded and annually updated in the California Integrated Water Quality System (CIWQS) database questionnaire.

<table>
<thead>
<tr>
<th>Assets</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Main Lines</td>
<td>3000 miles</td>
</tr>
<tr>
<td>Lower Laterals</td>
<td>1400 miles</td>
</tr>
<tr>
<td>Connections</td>
<td>290,000</td>
</tr>
<tr>
<td>Pump Stations</td>
<td>108</td>
</tr>
</tbody>
</table>

3. Application for Permit Coverage

The District's Notice of Intent (NOI) for coverage under the Sanitary Sewer Order was submitted to the State Water Board on November 2, 2006. It is included in Appendix A.

The District received the Waste Discharge Identification (WDID) # 5SS010912.

4. Reporting Program

The District has complied with the General Monitoring and Reporting requirements by the online reporting (via CIWQS) of Sanitary Sewer Overflows since September 2, 2007.
5. **Sacramento Area Sewer District SSMP Document Overview**

The District’s Sewer System Management Plan (SSMP) is arranged to be a living day-to-day management plan. The arrangement for the District’s SSMP is shown graphically in Section 5.1 Diagram 5-1. General Management Overview.

D13 of the WDR specifies the mandatory elements of the SSMP. Some of the mandatory elements are treated individually as stand alone elements in the SSMP. These elements are listed in Table 5-1 below.

<table>
<thead>
<tr>
<th>WDR Section</th>
<th>WDR Mandatory Element</th>
<th>SSMP Section</th>
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<tr>
<td>13(i)</td>
<td>Goal</td>
<td>7</td>
</tr>
<tr>
<td>13(ii)</td>
<td>Organization</td>
<td>8</td>
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<td>13(iii)</td>
<td>Legal Authority</td>
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</tr>
<tr>
<td>13(vi)</td>
<td>Overflow Emergency Response Plan</td>
<td>10</td>
</tr>
<tr>
<td>13(v)</td>
<td>Design and Performance Provisions</td>
<td>11</td>
</tr>
<tr>
<td>13(x)</td>
<td>SSMP Program Audits</td>
<td>12</td>
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<tr>
<td>13(xi)</td>
<td>Communication Program</td>
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</table>

The remaining mandatory elements are covered in combination in Section 14, Combined SSMP Elements Overview and Section 15, System-wide Assessment Programs. These elements are listed in Table 5-2 below.

<table>
<thead>
<tr>
<th>WDR Section</th>
<th>WDR Mandatory Element</th>
<th>SSMP Section</th>
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<tbody>
<tr>
<td>13(iv)</td>
<td>Operation and Maintenance Program</td>
<td>14 and 15</td>
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<td>13(vii)</td>
<td>FOG Control Program</td>
<td>14 and 15</td>
</tr>
<tr>
<td>13(viii)</td>
<td>System Evaluation and Capacity Assurance Plan</td>
<td>14 and 15</td>
</tr>
<tr>
<td>13(ix)</td>
<td>Monitoring, Measurement, and Program Modifications</td>
<td>14 and 15</td>
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</table>
5.1 Diagram 5-1 General Management Overview

Sewer System Management Plan

<table>
<thead>
<tr>
<th>Stand Alone Elements</th>
<th>System-wide Failure Mode Assessments and Strategies</th>
<th>Service Level and Business Performance Assessment</th>
<th>Projections</th>
<th>Funding</th>
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<tr>
<td>Goal</td>
<td>Structural Assessment Program</td>
<td>Management Plan Assessment Program</td>
<td>Asset Management Plan</td>
<td>Long-term Financial Plan</td>
<td>Final Budget</td>
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<td>Organization</td>
<td>Sanitary Sewer Overflow Assessment Program</td>
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<tr>
<td>Legal Authority</td>
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<td></td>
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<tr>
<td>Overflow Emergency Response Plan</td>
<td></td>
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<tr>
<td>Design and Performance Provisions</td>
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<td>SSMP program Audits</td>
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<td></td>
</tr>
<tr>
<td>Communication</td>
<td></td>
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</tbody>
</table>
6. **Board Approved SSMP Development Plan and Schedule**

The WDR requires that publicly-owned sewer collection systems that meet the requirements of the order have the approving authority to formally approve the agency’s SSMP Development Plan and Schedule.

The District approved the **SSMP Development Plan and Schedule** on June 13, 2007. A scanned copy of the Board approval documents can be found in Section 17 Appendix B.

7. **Goal**

On November 2, 2007, the District certified that the “Goals” mandatory element of the SSMP was complete.

> “The goal of the Districts’ SSMP is to provide a plan and schedule to continue to properly manage, operate, and maintain all parts of the sanitary sewer system. This will help reduce and prevent SSOs, as well as mitigate any SSOs that occur.”

8. **Organization**

8.1 **Certified Organization Structure Element**

On November 2, 2007, the District Board certified that the District Engineer is the responsible or authorized representative as described in Section J of the Waste Discharge Requirement Water Quality Order Number 2006-0003-DWQ. Figure 8-1 on the following page shows the organizational structure at the time of agency approval of this SSMP.

On July 8, 2013 the following person was appointed by the Board as the District Engineer.

> **District Engineer:** Prabhakar Somavarapu

8.2 **Chain of Communication for Reporting SSOs**

The chain of communication for reporting SSOs is located in the most current version of **Sanitary Sewer Overflow Emergency Response Procedures Manual, Section 205** of the SSMP Reference Document and the **Customer Call Handling and Service Request Creation Policy, Section 206** of the SSMP Reference Document. Figure 8-1 on the following page shows the Legal Responsible Officials (LRO) for reporting SSOs.
8.3 Figure 8-1 Staff Responsible for Implementing the District SSMP
9. **Legal Authority**

The Sacramento Area Sewer District Sewer Ordinance (Ordinance), Section 203 of the SSMP Reference Document provides the District with the Legal Authority to:

- prevent illicit discharges
- require that sewers and connections be properly designed and constructed
- ensure access for maintenance, inspection, or repairs for portions of laterals owned by the District
- limit the discharge of fats, oils, and grease (FOG) and other debris that may cause blockages
- enforce any violation of its sewer ordinance
- prohibit discharges to the system and identify measures to prevent SSO's and blockages caused by FOG

When the District finds an inconsistency or shortcoming in the Ordinance or when District program modifications are made, the Ordinance is reviewed and updated as necessary. The Ordinance is kept in alignment with current practices, ensuring the legal authority for the required SSMP elements is maintained.

10. **Overflow Emergency Response Plan**

The District maintains a Sanitary Sewer Overflow (SSO) Emergency Response Procedures Manual that complies with the SSMP Overflow Emergency Response Plan requirements. The manual contains procedures to:

- provide timely and proper notification of responders, regulatory agencies and other potentially affected entities
- ensure appropriate staff are aware and follow the emergency response plan and address emergency operations and other necessary response activities
- ensure all reasonable steps are taken to contain and prevent sewage from entering waters of the United States and to minimize or correct any adverse impact of overflows in case they occur.

11. **Design and Performance Provisions**

The District maintains the Sacramento Area Sewer District Standards and Specifications (Standards), Section 204 of the SSMP Reference Document that complies with the SSMP design and performance requirements. The Standards include design and construction standards and specifications for inspecting and testing the installation of new sanitary sewer systems and rehabilitation and repair of existing sanitary sewer systems. The Standards are reviewed annually and updated as changes are needed.

12. **SSMP Program Audits**

The District conducts periodic internal audits at least every two years. A report is prepared after the audit and kept on file. The District uses the SSMP Audit Procedures, Section 202 of the SSMP Reference Document as guidance when conducting an internal audit.
13. **Communication Program**

The District has provided and will continue to provide information to its customers and the public with information about the SSMP as described in the SSMP Communication Program, Section 201 of the SSMP Reference Document. The District communicates with tributary and satellite sewer systems as needed.

14. **Combined SSMP Elements Overview**

As shown in Table 5-2 contained in Section 5 Sacramento Area Sewer District SSMP Document Overview, some of the D13 provisions of the WDR elements are covered in combination. Most of these elements are addressed in Section 15 System-wide Assessment Programs.

There are three combined SSMP elements that are not part of Section 15 System-wide Assessment Programs:

- Computerized Maintenance Management Systems (CMMS)
- Training
- Up-to Date System Maps

These elements are discussed below.

14.1 **Computerized Maintenance Management System (CMMS)**

The District employs a computerized maintenance management system (CMMS) to document work orders, Preventive Maintenance (PM) schedules, emergency response, and the records of completed work. Reports from the CMMS are used to provide the data for trending the District’s sewer system performance. The performance trends for the SSO related service levels, failure modes, and performance measures drive the priority for District actions. The CMMS is also used to document SASD equipment and replacement part inventories, including identification of critical replacement parts.

In order to increase the staff awareness of system-wide SSO performance, the District trends and prominently posts the main line and lower lateral overflow rate graphs monthly. In addition, performance measures such as work orders completed on time, production rates, and costs per unit completed are trended.

14.2 **Training**

The District provides training for staff on regular basis in sanitary sewer system operations and maintenance. Training includes SSO response procedures, job plans, and on the job training as described in SASD Training Policy, Section 208 of the SSMP Reference Document. Contractors awarded a job or a project by the District are trained on SSO response procedures and sanitary sewer system operations and maintenance.

14.3 **Up-to Date System Maps**

The District utilizes a Geographic Information System (GIS) to display location and asset information about the sewer system. The computerized map shows various information including pipe sizes, manhole rim elevations, pipe materials, manhole depths, and the locations of pipes, manholes, pump stations, force mains, and sewer laterals.

The storm water facilities are owned and operated by local jurisdictions. These jurisdictions are responsible for the accuracy and timeliness of storm water facilities mapping updates to the regional GIS.
Collaborative. These storm water maps are then available to District staff by retrieving them from different layers in the GIS Viewer.

The District maintains the sewer and storm water system map in accordance with the most current version of Mapping Update Policy and Process, Section 207 of the SSMP Reference Document. The policy specifies mapping documentation procedures, mapping update timelines, and mapping rollout procedures.

15. **System-wide Assessment Programs**

This section describes the programs that are designed to investigate any shortcomings in meeting the District’s approved Service Levels or regulatory requirements as follows:

- monitor and analyze trends on service levels and performance measures
- review the results the work done to accomplish a strategy
- make Preventive Maintenance (PM) schedule, strategy modifications or other corrections, depending on trends and target performance level
- evaluate and manage risk associated with failing to meet service levels, regulatory requirements, community/social needs and business goals
- address capital and operating needs and project revenue and funding needs
- monitor the result of strategy modifications

The Assessment Programs are broken into the following three categories:

- **Structural Assessment Program**
- **SSO Assessment Program**
- **Management Plan Assessment Program**

The Assessment Programs include strategies that drive the District’s operation and maintenance practices, FOG Control Program, system evaluation and capacity assurance plan, and monitoring, measurement, and program modifications elements. These strategies address:

- pipeline loss of support failure mode
- pipeline crush collapse failure mode
- pipeline stoppage failure mode
- pump station and force main failure modes
- under capacity failure mode
- damage by others failure mode

15.1 **Structural Assessment Program**

The District owns and operates a variety of physical assets. Each asset type has its own degradation pattern that leads to various modes of structural failures. The **Structural Assessment Program, Section 400 of the SSMP Reference Document** describes the strategies the District implements to identify and mitigate failure modes that lead to structural failures of sewer collection assets such as manholes, pipes, and pump stations.

This program is divided into different types of strategies addressing structural failure modes. These strategies are then further divided by procedures and practices since different asset classes have different required methodology to determine investigatory and action triggers. The District’s supporting information can be found in the following:
• Loss of Support Failure Mode Strategy, Section 401 of the SSMP Reference Document
• Crush Collapse Failure Mode Strategy, Section 402 of the SSMP Reference Document
• Pump Station Structural Assessment Strategy, Section 403 of the SSMP Reference Document

Structural failures which have caused stoppages are addressed directly through the District’s SSO Assessment Program, Section 500 of the SSMP Reference Document, (and via the SSO Emergency Response Procedures Manual, if an SSO or BIS resulted).

15.1.1 Loss of Support Failure Mode Strategy

Loss of support failure mode is when the gravity collection system asset failure is due to the failure of the supporting substructure – such as the erosion of soil beneath a buried pipe or the failure of a support pier or hanger. This type of failure mode results in the pipe separating at joints or structurally failing. The Loss of Support Failure Mode Strategy defines the reactive and proactive approaches to cost effectively reduce loss of support failures.

15.1.2 Crush Collapse Failure Mode Strategy

Crush collapse failure mode is when the asset fails due to either the degradation of the asset (such as corrosion of the asset structure) or when excessive forces have been applied causing cracking or breaking of the pipe. If this type of failure leads to the asset collapsing in on itself then it is considered a crush collapse failure. The Crush Collapse Failure Mode Strategy is used to cost effectively reduce the frequency of crush collapse caused SSOs.

15.1.3 Pump Station Structural Assessment Strategy

Pump stations consist of wet well structures, valve vaults, and force mains. Some pump stations also have buildings. These different asset classes have different approaches to mitigate the risk of structural failure. The Pump Station Structural Assessment Strategy addresses the actions the District takes to assess the pressurized assets for risk of failure and discusses approaches to cost effectively minimize failures.

15.2 SSO Assessment Program

The District takes all feasible steps to eliminate SSOs. The SSO Assessment Program is used to identify strategies the District implements to identify and mitigate failure modes that cause SSOs.

This program is divided into different types of strategies addressing SSO-producing failure modes. These strategies are then further divided by procedures and practices since different asset classes have different required methodology to determine investigatory and action triggers. The District’s supporting information can be found in the following:

• Main line Stoppage Failure Mode Strategy, Section 501 of the SSMP Reference Document
• Lower Lateral Stoppage Failure Mode Strategy, Section 502 of the SSMP Reference Document
• Manhole Stoppage Failure Mode Strategy, Section 503 of the SSMP Reference Document
• Pump Station Component Failure Mode Strategy, Section 504 of the SSMP Reference Document
• Damage by Others Failure Mode Strategy, Section 505 of the SSMP Reference Document
• Under Capacity Failure Mode Strategy, Section 506 of the SSMP Reference Document
• Underground Facility Damage Investigation Process, Section 508 of the SSMP Reference Document
• SASD Comprehensive FOG Program, Section 511 of the SSMP Reference Document
• Root Control Program, Section 512 of the SSMP Reference Document

All SSO response in the District follows the Sanitary Sewer Overflow Emergency Response Procedures Manual and the Customer Call Handling & Service Request Creation Policy.

15.2.1 Main Line Stoppage Failure Mode Strategy

Main line stoppages are blockages in the pipe that impede the movement of sewage through the collection system. Stoppage failure mode is when a stoppage from such things as debris, roots, or grease causes an overflow of the District’s facility. The Main Line Stoppage Failure Mode Strategy defines the strategy that is used to cost effectively reduce the frequency of main line stoppage caused SSOs. The strategy incorporates both proactive and reactive approaches. A proactive approach is used when the District can identify a cost effective method to locate where stoppages may occur and take appropriate action, such as implementing the Main Line Scheduled Maintenance Program. The reactive approach is used when a stoppage occurs and the District carries out actions to prevent future stoppages in that main line.

The Incorrect Cleaning Frequency Failure Mode Strategy, Section 507 of the SSMP Reference Document and the Quality Control for Sewer Pipe Cleaning Procedure/Policy, Section 510 of the SSMP Reference Document are part of the proactive approach tools that were put in place to reduce the risk of an SSO in the main line.

15.2.2 Lower Lateral Stoppage Failure Mode Strategy

Lower lateral stoppages are blockages in the pipe that impede the movement of sewage from the customer to the District collection system. Stoppage failure mode is when a stoppage from such things as debris, roots, or grease causes an overflow of the District’s facility. The Lower Lateral Stoppage Failure Mode Strategy defines the strategy that is used to cost effectively reduce the frequency of lower lateral stoppage caused SSOs. The strategy incorporates both proactive and reactive approaches. A proactive approach is used when the District can identify a cost effective method to locate where stoppages may occur and take appropriate action such as implementing the Lower Lateral Scheduled Maintenance Program. The reactive approach is used when a stoppage occurs and the District carries out actions to prevent future stoppages in that lower lateral.

15.2.3 Manhole Stoppage Failure Mode Strategy

Manhole stoppages are blockages in the manhole that impede the movement of sewage through the collection system. Stoppage failure mode is when a stoppage from such things as debris, roots, or grease causes an overflow of the District’s facility. The Manhole Stoppage Failure Mode Strategy defines cost-effective strategies used to reduce the frequency of SSOs caused by stoppages in manholes. The strategy incorporates both proactive and reactive approaches. A proactive approach is used when the District can identify a cost effective method to locate where stoppages may occur and take appropriate action such as implementing a Manhole Scheduled Maintenance Program. The reactive approach is used when a stoppage occurs and the District carries out actions to prevent future stoppages in that manhole.

15.2.4 Pump Station Component Failure Mode Strategy

Pump station component failures can impede the flow of sewage from a lower elevation gravity asset to a higher elevation gravity asset. There are a large number of failure modes that can cause pump station component failure. The purpose of the Pump Station Component Failure Mode
Strategy is to identify circumstances in which non-structural pump station components may fail and approaches to cost effectively minimize failures. The strategy incorporates both proactive and reactive approaches. A proactive approach is used when the District can identify a cost effective method to repair, replace, or maintain the asset prior to failure. The reactive approach is used to respond to alarms that identify a failure in the pressurized system asset.

15.2.5 Damage by Others Failure Mode Strategy
Collection system failures caused by others is when any outside agency or vandal causes damage to a District facility resulting in an overflow. The Damage by Others Failure Mode Strategy defines strategies used to mitigate and reduce damage by others to the District assets. The strategy incorporates both proactive and reactive approaches. A proactive approach is used when the District can identify a cost effective method to locate where damages may occur and take appropriate action. The reactive approach is used when damage occurs and the District does something to prevent future damages to that facility.

15.2.6 Under Capacity Failure Mode Strategy
The Sacramento Area Sewer District Sewer System Capacity Plan (formerly referred to as the Master Plan) is updated about every 5 years. The Sewer System Capacity Plan has the following two major components:

- an evaluation of the existing system’s capacity performance and identification of potential relief projects
- design of new sewer trunk system to serve future development.

The evaluation of the existing system’s capacity performance in the Sewer System Capacity Plan is intended to identify areas of potential capacity deficiencies, which then undergo further investigation through the Under Capacity Failure Mode Strategy that defines the design criteria and ensures consistency in the evaluation of potential capacity deficiencies and the development of alternative solutions in District collection system. The expansion portion of the Sewer System Capacity Plan and the Standards are used as a guide to design sewer facilities to serve new development.

15.2.7 Underground Facility Damage Investigation Process
The Underground Facility Damage Investigation Process, Section 508 of the SSMP Reference Document is used to ensure consistency in the investigation and reporting of damages to any District facility during an excavation process. This information will assist the District in knowing who is financially responsible for the damage and assist in the recovery of all associated costs.

15.2.8 SASD Comprehensive FOG Control Program
The District’s SASD Comprehensive FOG Program captures all of the District’s data, efforts and achievements related to compliance with the WDR mandated FOG requirements. The program document contains the details of the District’s approach to mitigate FOG impacts and to meet the SSMP requirements. The Main line Stoppage Failure Mode Strategy and the Televised Inspection Policy, Section 509 of the SSMP Reference Document address the way the District develops maintenance schedules for areas subject to all types of stoppages, including FOG.

15.2.9 Root Control Program
The Root Control Program aims at reducing the impacts of root intrusion in the District’s system. This includes both a reactive approach and a proactive approach. The reactive approach aims at
responding to and dealing with SSO’s in a quick and effective way and enforcing corrective action of private root problems. This minimizes the impacts of root intrusion that has occurred. The proactive approach aims at stopping root intrusion before it becomes a problem. Finding innovative root control techniques, appropriate mechanical cleaning methods, applying physical pipeline rehabilitation, and maintaining District Standards and Specifications are all part of this approach.

15.3 Management Plan Assessment Program

The purpose of the Management Plan Assessment Program, Section 300 of the SSMP Reference Document is to describe the activities that explain how the District manages decision-making processes and fiscal decision making. It also describes how the District meets the requirements of the Monitoring, Measurement, and Program Modification element of the SSMP. Decision making processes are managed so that attention is focused on assets at risk of failing in any of the failure modes identified to date. The document describes how various revenue scenarios are evaluated and how a schedule for developing the funds needed is updated each year.

15.3.1 Gravity Assets Management Strategy

The Gravity Assets Management Strategy, Section 303 of the SSMP Reference Document documents how the District manages the performance of gravity assets by reviewing system-wide SSO Service Level performance trends and evaluating operational efficiency, maintenance activities, procedures, frequencies and practices; along with these activities, costs are estimated and projected. The District staff then develops scenarios of different approaches, estimates effectiveness, and projects cost and performance expectations. Main line Stoppage Failure Mode Strategy, Lower Lateral Stoppage Failure Mode Strategy, Manhole Stoppage Failure Mode Strategy, and Damage by Others Failure Mode Strategy are all evaluated for cost effective reduction of SSOs, mitigation of SSO risk, and reduction of SSO consequence.

The Gravity Assets Management Strategy links to the Under Capacity Failure Mode Strategy and the System Capacity Plan which describe how capacity assurance is managed.

The Gravity Assets Management Strategy documents how the District manages the sustainability of gravity assets by reviewing overflow rates and service level targets and linking to the Structural Assessment Program.


15.3.2 Pressurized Assets Management Strategy

The Pressurized Assets Management Strategy, Section 302 of the SSMP Reference Document documents how the District manages the performance of pressurized assets by reviewing system-wide failure trends and evaluating operational efficiency, maintenance activities, procedures, frequencies and practices. The District staff then develops scenarios of different approaches, estimates effectiveness, and projects cost and performance expectations. Pump Station Component Failure Mode Strategy, Pump Station Structural Assessment Strategy, and the Pump Station Condition Assessment Strategy, Section 301 of the SSMP reference Document are
evaluated for cost effective operations, reduction of SSOs, mitigation of SSO risk, and reduction of SSO consequence.

The **Pressurized Assets Management Strategy** links to the **Under Capacity Failure Mode Strategy** and the **System Capacity Plan** which describe how the District manages capacity assurance in the pressurized system.

The **Pressurized Assets Management Strategy** documents how the District manages the sustainability of pressurized assets by reviewing overflow rates and service level targets and linking to the **Structural Assessment Program**.

For pressurized assets, custom Business Case Evaluations (BCE), are performed for an asset class, and when appropriate, extended system-wide. The **Generic BCE Process** provides general guidelines on how the District makes short term repair and replacement decisions for pressurized assets.

### 15.3.3 Asset Management Plan and Staffing Projections

The **Asset Management Plan** is a report that describes the District's asset portfolio and the asset life cycle projections. The purpose of the **Asset Management Plan** is to demonstrate responsible management, to communicate and justify funding requirements, to comply with regulatory requirements, and to assist in the long-term sustainability of District assets.

Staffing plans provide information to be used as a planning tool to determine the amount of work and resources needed for District staff to effectively maintain its collection system. The staffing plans are used in conjunction with the Service Level Agreements to ensure adequate resources are allocated for the operation, maintenance, and repair of the sanitary sewer system.

### 15.3.4 Funding Needs Assessments

The **Asset Management Plan** and the **Long-term Financial Plan (LTFP)** contain the plan to rehabilitate and replace capital assets along with a schedule for rehabilitation and replacement. The Long-term Financial Plan describes the methodology that the District uses to ensure it is in good financial health, using details from audited reports and budgets. The Long-term Financial Plan looks at sources of funding and compares them to a financial needs forecast.
### Appendix A - Notice of Intent

#### I. Notice of Intent (NOI) Status

<table>
<thead>
<tr>
<th>Mark Only One Item</th>
<th>1. [ ] New Permittee</th>
<th>2. [X] Change of Information</th>
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#### II. Agency Information

<table>
<thead>
<tr>
<th>A. Agency</th>
<th>Sacramento Area Sewer District</th>
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</thead>
<tbody>
<tr>
<td>B. Mailing Address</td>
<td>10545 Armstrong Avenue</td>
</tr>
<tr>
<td>C. City</td>
<td>Mather</td>
</tr>
<tr>
<td>D. City</td>
<td>State</td>
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<tr>
<td>E. Address (Line 2)</td>
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</tr>
<tr>
<td>F. Postal Code</td>
<td>95655</td>
</tr>
<tr>
<td>G. County</td>
<td>Sacramento</td>
</tr>
<tr>
<td>H. ZIP Code</td>
<td>95655</td>
</tr>
<tr>
<td>I. Phone</td>
<td>916-876-6160</td>
</tr>
<tr>
<td>J. Fax</td>
<td>916-876-6160</td>
</tr>
<tr>
<td>K. Email Address</td>
<td><a href="mailto:SnyderM@SacCounty.net">SnyderM@SacCounty.net</a></td>
</tr>
</tbody>
</table>

#### III. Billing Information

<table>
<thead>
<tr>
<th>A. Agency</th>
<th>Sacramento Area Sewer District (formerly known as CSD-1)</th>
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<tbody>
<tr>
<td>B. Contact Person</td>
<td>Marcia Maurer</td>
</tr>
<tr>
<td>C. Title</td>
<td>Chief Financial Officer</td>
</tr>
<tr>
<td>D. Mailing Address</td>
<td>10545 Armstrong Avenue</td>
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<td>E. Address (Line 2)</td>
<td>Mather</td>
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<td>F. City</td>
<td>State</td>
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<tr>
<td>G. Postal Code</td>
<td>95655</td>
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<td>H. County</td>
<td>Sacramento</td>
</tr>
<tr>
<td>I. Phone</td>
<td>916-876-6160</td>
</tr>
<tr>
<td>J. Fax</td>
<td>916-876-6160</td>
</tr>
<tr>
<td>K. Email Address</td>
<td><a href="mailto:MaurerM@SacCounty.net">MaurerM@SacCounty.net</a></td>
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</table>

The annual fee, which is required by the California Water Code (section 13260), is based on the daily population served by the sanitary sewer system. Additionally, an ambient water monitoring surcharge of 9 percent is required for each annual fee. The total fee is the sum of the annual fee and ambient water monitoring surcharge. Please see the instructions on completing this NOI for a detailed explanation of the fee structure.

#### L. Total Fee (check one)

- [ ] Population served < 50,000 — total fee submitted is $872.00
- [X] Population served ≥ 50,000 — total fee submitted is $4,676.00

A check for the appropriate total fee amount should be made payable to SWRCB and mailed with this completed NOI to the following address:

State Water Board Accounting Office
P O Box 1888
Attn: SSO Fees
Sacramento, CA 95812-1888

SWRCB Tax ID is: 68-0281986
16.1 Appendix A – Notice of Intent (continued)

IV. Electronic Submittal Authorization

I, Mary Snyder, certify that I am the legally responsible official for Sacramento Area Sewer District. My signature on this form certifies that, I agree, my California Integrated Water Quality System (CIWQS) user ID and password constitute my electronic signature and any information I indicate I am electronically certifying contains my signature. I understand that I am legally bound, obligated, and responsible by use of my electronic signature as much as by a hand-written signature.

I agree that I will protect my electronic signature from unauthorized use, and that I will contact the State Water Resources Control Board, within 24-hours of discovery, if I suspect that my electronic signature has been lost, stolen, or otherwise compromised. I certify that my electronic signature is for my own use, that I will keep it confidential, and that I will not delegate or share it with any other person.

V. Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Additionally, I certify that the provisions of the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, including electronic reporting of all sanitary sewer overflows and development and implementation of a sewer system management plan, will be complied with."

A. Printed Name: Mary Snyder
B. Title: District Engineer
C. Signature: ____________
D. Date: 10-3-08

NOTE: Mail completed and signed form with a check for fee payment to the address below.

State Water Board Accounting Office
P O Box 1888
Attn: SSO Fees
Sacramento, CA 95812-1888
17. **Appendix B – Board Approved Plan and Schedule**

```markdown
DATE:       June 13, 2007
TO:         Honorable Board of Directors
            County Sanitation District 1
FROM:       County Sanitation District 1 (CSD-1)
SUBJECT:    Development Plan and Schedule for the CSD-1 Sewer System Management Plan (SSMP)

**RECOMMENDATION:**

It is recommended that your Board approve the SSMP Development Plan and Schedule to comply with the Waste Discharge Requirements (WDRs) for CSD-1.

**BACKGROUND:**

On May 2, 2006, the California State Water Resources Control Board (SWRCB) adopted Statewide General Waste Discharge Requirements (WDRs), Order No. 2006-0003, for all publicly owned sanitary sewer collection systems.

CSD-1 is subject to the requirements of the General WDRs. The WDRs require that all publicly owned collection systems greater than one mile in length take all feasible steps to prevent Sanitary Sewer Overflows (SSO’s), develop a Sewer System Management Plan (SSMP), and comply with reporting requirements.

The Statewide WDR requires that the agencies governing board approve the SSMP Development Plan and Schedule at a public meeting. The action your Board takes today by adopting this plan and schedule satisfies this requirement. The SSMP Development Plan and Schedule identifies the milestone dates for completing each element of the SSMP and identifies the responsible party for completing the SSMP plan sections. As the attached table illustrates, this is the first of many tasks the District will be undertaking and committing resources to develop a SSMP and comply with the WDR.
```
17.1 Appendix B - Board Approved Plan and Schedule (continued)

Honorable Board of Directors
June 13, 2007
Page 2

CONCLUSION:

It is recommended that the SSMP Development Plan and Schedule be approved and that the District Engineer be authorized to certify approval of the plan to the SWRCB.

Respectfully submitted,

Christoph Dobson
Collection Systems Manager

CD/PKS:je

Attachments: SSMP Development Plan and Schedule for CSD-1

Contact for additional information:
Christoph Dobson
Collection Systems Manager
876-6042

APPROVED:

Mary K. Snyder
District Engineer
### 17.2 Appendix B - Board Approved Plan and Schedule (continued)

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<th>Due Date</th>
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<td>Mary Snyder</td>
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<td>SSMP Development Plan and Schedule (This Board item)</td>
<td>Aug 2, 2007</td>
<td>Patrick Schroeder</td>
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<td>Reporting Program</td>
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<td>Christoph Dobson</td>
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<td>Goals and Organization Structure</td>
<td>Nov 2, 2007</td>
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<td>Overflow Emergency Response Plan</td>
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<td>May 2, 2009</td>
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<tr>
<td>Final SSMP, incorporating all of the SSMP requirements</td>
<td>May 2, 2009</td>
<td>Patrick Schroeder</td>
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17.3 Appendix B - Board Approved Plan and Schedule (continued)

COUNTY SANITATION DISTRICT NO. 1
RESOLUTION NO. CD-1225

SSMP DEVELOPMENT PLAN AND SCHEDULE – SACRAMENTO COUNTY
SANITATION DISTRICT NO. 1 SEWER SYSTEM MANAGEMENT PLAN

BE IT RESOLVED AND ORDERED that the Board of Directors of the SACRAMENTO
COUNTY SANITATION DISTRICT NO. 1 (CSD-1), a sanitation district organized under the laws
of the State of California, hereby approves a Sewer System Management Plan (SSMP)
Development Plan and Schedule, in the form hereto attached, and authorizes the District Engineer
or her designee to certify approval of the SSMP Development Plan and Schedule in the California
State Water Resources Control Board's (SWRCB) electronic database to comply with the SWRCB
statewide general Waste Discharge Requirements (WDR's).

ON A MOTION by Director Yee, and seconded by Director
MacGlashan, the foregoing resolution was passed and adopted by the Board of
Directors of the Sacramento County Sanitation District No. 1, State of California, this 13th
day of June 2007, by the following vote, to wit:

AYES: Directors, Bruins, Dickinson, MacGlashan, Nottoli, Peters, Scherman, Skoglund,
Yee, McCarty

NOES: Directors, none

ABSENT: Directors, Nowell

ABSTAIN: Directors, none

Chair of the Board of Directors
Sacramento County Sanitation District No. 1, a sanitation
district organized under the laws of the State of California.

Clerk of the Board of Supervisors of
Sacramento County, California, and ex-
officio Secretary of the Board of
Directors of the Sacramento County
Sanitation District No. 1