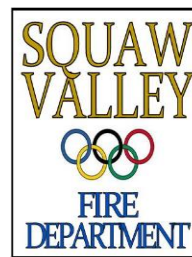




# SQUAW VALLEY PUBLIC SERVICE DISTRICT



## 2015 SSMP Audit/ Update Report

**DATE:** March 31, 2015  
**TO:** District Board Members  
**FROM:** Jesse McGraw, Operations Manager  
**SUBJECT:** 2015 SSMP Audit/ Update

### BACKGROUND:

In May of 2006 the California State Water Resources Control Board adopted Waste Discharge Requirements (WDR) for sewer systems greater than one mile in length; WDR 2006-003. In compliance with WDR 2006-003 the District adopted a Sewer System Management Plan (SSMP) on July 27, 2010. The WDR requires the SSMP be audited every 2 years and be updated every 5 years.

### DISCUSSION:

The SSMP contains 11 key elements; the audit report will seek to evaluate the sufficiency of each element, summarize the District's efforts over the past 5 years, review benchmarks for performance, and make recommendations for improvements where appropriate.

**ALTERNATIVES:** 1. The audit and update process is mandated by statute, therefore there are no alternatives.

### FISCAL/RESOURCE IMPACTS:

Staff budgeted \$7,500 in the 2015-2016 Capital Projects Budget to have a consultant perform the audit. After reviewing audit reports posted on line by other agencies and review of regulations posted on the Water Board web site it was determined the funds could be saved by doing the required report in house.

### RECOMMENDATION:

Staff recommends the Board review the attached report and direct staff to certify the 2015 audit/ update as completed on the States web site CIQWS.

### ATTACHMENTS:

SVPSD 2015 SSMP Audit and Update Report

**DATE PREPARED:** March 2, 2015

# **Squaw Valley Public Service District 2015 SSMP Audit and Update Report**

## **Introduction:**

In May of 2006 the California State Water Resources Control Board adopted Waste Discharge Requirements (WDR) for sewer systems greater than one mile in length; WDR 2006-003. In compliance with WDR 2006-003 the District adopted a Sewer System Management Plan (SSMP) on July 27, 2010. The WDR requires the SSMP be audited every 2 years and be updated every 5 years. The SSMP contains 11 key elements; the audit report will seek to evaluate the sufficiency of each element, summarize the District's efforts over the past 5 years, review benchmarks for performance, and make recommendations for improvements where appropriate.

## **Element 1: SSMP Goals**

In 2010 the District elected to adopt our Purpose Statement, Mission Statement, and Core Values as our goals in operating the sewer system. There were 6 key areas of concern identified to include:

- Customer service
- Water quality and environmental protection
- Long term sewer collection and treatment service
- Long term infrastructure investment
- Long term financial stability
- Workforce planning and development

The District strives to excel in each of these areas; the District's goals and objectives are reviewed by the Board of Directors annually. The District's Strategic Plan which includes implementation of the SSMP is reviewed bi-annually.

## **Element 2: Organization**

The organization of the District has not changed, however staff is working on a succession plan in preparing for the retirement of senior personnel and anticipate changes in the organization element for the 2017 SSMP Audit. The SSO Emergency Contact List was updated to reflect recent personnel changes.

## **Element 3: Legal Authority**

The District's legal authority remains sufficient and unchanged; however Division XII was removed from the sewer code and stands as the Sewer Technical Specifications; duly noted in the revised plan.

## **Element 4: Sewer System Operations and Maintenance Program**

The Sewer System Operations and Maintenance Program include the following key requirements:

- A. Maintain an up-to-date map of the collections system  
The sewer system maps were updated in 2010 to include 4" laterals and cleanouts. Since 2010 the District has initiated annual updates with Farr West Engineering to incorporate additional cleanouts that are installed and revisions that surfaced during the implementation of VueWorks and the TVI project. The maps are presently being updated to reflect the addition of the Olympic Estates subdivision and recent sewer line replacement projects. District staff is working to

incorporate mapping of private pump stations so they may be monitored in an extended power outage.

B. Preventive Maintenance Program

The Preventive Maintenance program was updated to reflect the change from using Hanson maintenance management software to VueWorks. The plan was updated to reflect the districts work contracting sewer system television inspection.

C. Develop a Rehabilitation and Replacement Plan

Since 2010 the District has completed the following rehabilitation and replacement projects:

- Tiger Tail Sewer Rehabilitation Project
- Squaw Peak Sewer Replacement Project
- Lanny Lane Sewer Replacement Project
- Install Sewer Meter T-45A
- Highway 89 Sewer Meter Vault Repair
- Aspens Sewer Realignment Project
- Easement Abatement Project
- Televised 75% of Sewer System
- Cleaned and Televised Squaw Creek and Truckee River Siphons

The Rehabilitation and Replacement Plan will be updated in 2015 with implementation of the new Sewer Master Plan.

D. Training Program

The training program was modified to include NASSCO PACP training

### **Element 5: Design and Performance**

The Sewer Technical Specifications are compliant; the District's General Conditions for pipeline and infrastructure projects will be modified to reflect new laws governing prevailing wages.

### **Element 6: Sewer System Overflow Emergency Response Plan**

The SSO Emergency Response Plan was amended to include State Water Resources Control Board Order WQ 2013-0058 EXEC. The new order re-defines SSO categories adding a category 3 SSO and modifying reporting requirements. A copy of the new regulation was added to Appendix 3. The plan will be modified to include a map highlighting the location of private pump stations so they may be monitored during an extended power failure.

### **Element 7: Fats, Oils, and Grease (FOG) Program**

The District's FOG program is compliant; since inception of the SSMP grease interceptors were installed at PlumpJack, Olympic Village Inn, and the Resort at Squaw Creek. New restaurants including Wildflower Bakery and Cup Cakery have grease traps installed. The Old Dubliner has increased maintenance on their grease interceptor. The District at present has no known problems in the collection system due to FOG and increased maintenance of the Resort and PlumpJack lines was discontinued. Table 7.1 was revised to reflect changes outlined above.

### **Element 8: System Evaluation and Capacity Assurance Plan**

The District installed Sewer Meter T-45A in order to improve system evaluation. The Capacity Assurance Plan was modified to reflect the sewer model update for the Village at Squaw Valley Specific Plan. The CIP will be updated as part of the planned Sewer Master Plan update budgeted for 2015.

### **Element 9: Monitoring, Measurement, and Program Modifications**

The SSMP was modified to reflect the change from Hanson to VueWorks. The district tracks performance indicators and benchmarks in the Annual Report. A copy of the SSO's recorded in the State database CQWIS showing 2 SSO's over the past five years is attached.

### **Element 10: SSMP Program Audits**

The audit process as outlined in the WDR should address the following:

- Document Control-The District has implemented a comprehensive Records Retention Program
- Training- The District has a written employee training program. Training is documented and updated annually with each employee during the annual review process.
- Goals and Objectives- The Districts goals and objectives are reviewed by the Board of Directors annually
- Data Management- The District utilizes VueWorks asset management software. All sewer television records and pipeline ratings are imported into VueWorks by Farr West Engineering.

Procedures for documenting SSO's are in place and the effectiveness of the SSMP program evaluated during the annual budget formation and in the year-end report.

### **Element 11: Communication**

Over the past 5 years the District has communicated directly with the public through the easement abatement program conducting workshops, public meetings, and direct mailings. Newsletter articles were published regarding FOG and easement access requirements and the SSMP was posted on the District web site. It is recommended the revised SSMP be published on the District's new web site.

### **Summary:**

Over the course of the past 5 years District staff has worked diligently to implement all elements of the SSMP. New equipment was purchased to assist the maintenance crew in cleaning lines in easements and for controlling roots. The District implemented a number of sewer rehabilitation projects as outlined above and implemented a comprehensive sewer television inspection program increasing the inspection cycle from 10 years to 5 years. The District's inspector implemented aggressive FOG control procedures contacting all restaurant owners personally; these efforts resulted in reduced FOG build up in the collection system reducing maintenance frequency.

### **Conclusion:**

The District experienced two (2) sanitary sewer overflows (SSO's) over the past 5 years as shown on the attached report. This is consistent with past estimates and about average as compared to other small agencies with 27% of California agencies reporting no SSO's and 55% reporting 1 or 2 SSO's. District staff is working hard to prevent future SSO's and believe the increased schedule of television inspections coupled with aggressive FOG control and a comprehensive rehabilitation program, adequately funded through the CIP and Asset Replacement programs will result in fewer SSO's in the future. The next SSMP Audit to be conducted in 2017 will include the envisioned Sewer Master Plan and updated CIP. The revised SSMP is believed to be compliant and adequate.



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