

Biennial Sewer System Management Plan Audit Report

Name of agency	Hi-Desert Water District (HDWD)
Date of audit	December 3, 2021
Date of SSMP	November 2019
SSMP Update Due Date	November 2024
Name of auditor	Doug Culbert, Chief Plant Operator HDWD, Orrin Plocher Freshwater Environmental Services (FES)

Certified by: Legally Responsible Official (LRO)

"I certify under penalty of law that this document and all attachments were prepared under my direction or 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, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." (40 C.F.R. § 122.22(d).)

Name	Position	Organization	Signature
Doug Culbert	Chief Plant Operator	Hi-Desert Water District	

Date Approved 1/31/2022

The purpose of the Sewer System Management Plan (SSMP) Audit is to evaluate the effectiveness of HDWD's SSMP and to identify whether updates are needed. This document was designed to meet the requirements of State Water Resources Control Board Order No. 2006-0003-DWQ as revised by Order No. WQ 2013-0058-EXEC. Documentation of SSMP audits are kept on file at the HDWD Wastewater Treatment Plant, and an indication is made in the California Integrated Water Quality System (CIWQS) database that the audit was completed. This audit report format is modified from audit reports(s) developed by Bay Area Clean Water Agency (BACWA).

ELEMENT 1. GOALS

1. Are the goals stated in the SSMP still appropriate and accurate? YES / NO

ELEMENT 2. ORGANIZATION

2. Is the SSMP up-to-date with organization and staffing contact information? YES NO

ELEMENT 3. LEGAL AUTHORITY

3. Does the SSMP reference up-to-date information about legal authority? YES / NO
4. Does HDWD have sufficient legal authority to control sewer use and maintenance? YES / NO

ELEMENT 4. OPERATIONS AND MAINTENANCE PROGRAM

4.a Map of the Sanitary Sewer System

- 5. Does the SSMP reference up-to-date information about maps? YES / ~~NO~~
- 6. Are collection system maps complete, up-to-date, and sufficiently detailed? ~~YES~~ / NO

4.b Preventative Maintenance Program

- 7. Does the SSMP contain up-to-date information about preventive operations and maintenance activities? YES / ~~NO~~
- 8. Are HDWD's preventive maintenance activities sufficient and effective in reducing and preventing SSOs and blockages? ~~YES~~ / NO

4.c Rehabilitation and Replacement Plan

- 9. Does the SSMP contain up-to-date information about the rehabilitation and replacement program? ~~YES~~ / NO
- 10. Does the SSMP contain up-to-date information about Closed Circuit Television (CCTV) inspections? ~~YES~~ / NO
- 11. Are scheduled inspections and the condition assessment system effective in identifying, prioritizing, and addressing deficiencies? ~~YES~~ / NO
- 12. Does the Capital Improvement Plan (CIP) address prioritized projects for collection system assets? ~~YES~~ / NO

4.d Training

- 13. Does the SSMP contain up-to-date information about existing training programs? ~~YES~~ / NO
- 14. Do supervisors believe their staff are sufficiently trained? ~~YES~~ / NO
- 15. Are staff satisfied with the training opportunities and support offered to them? ~~YES~~ / NO

4.e Equipment and Replacement Part Inventories

- 16. Does the SSMP reference up-to-date information about equipment and replacement part inventories? ~~YES~~ / NO

ELEMENT 5. DESIGN AND PERFORMANCE PROVISIONS

- 17. Does the SSMP contain up-to-date information about design and construction standards? ~~YES~~ / NO

ELEMENT 6. SSO & BACKUP RESPONSE PLAN

- 18. Does the SSMP contain an up-to-date version of SSO Response Plan? YES / ~~NO~~
- 19. Is the Response Plan effective in handling SSOs? (if YES, indicate specific information under the "Evaluation of the Effectiveness of the SSMP" section below) ~~YES~~ / NO

ELEMENT 7. FATS, OILS, AND GREASE (FOG) CONTROL PROGRAM

- 20. Does the SSMP reference or contain up-to-date information about the HDWD’s FOG control program? **YES** ~~NO~~
- 21. Is the current FOG program effective in documenting and controlling FOG sources? ~~YES~~ / NO
- 22. Are all public outreach materials for the FOG program current? ~~YES~~ / NO

ELEMENT 8. SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN

- 23. Does the SSMP reference or contain up-to-date information about HDWD’s capacity assessment activities and documentation? ~~YES~~ / NO
- 24. Is the HDWD sufficiently addressing hydraulic deficiencies? ~~YES~~ / NO

ELEMENT 9. MONITORING, MEASUREMENT, AND PROGRAM MODIFICATIONS

- 25. Does the SSMP reference up-to-date information about the Crescent HDWD’s data collection and organization (e.g. use of CMMS, performance indicators, etc.)? ~~YES~~ / NO
- 26. Is Crescent HDWD’s data collection and organization sufficient to evaluate the effectiveness of the SSMP? ~~YES~~ / NO

ELEMENT 10. SSMP PROGRAM AUDITS

- 27. Will this SSMP Audit be completed by every two years starting in 2023. ~~YES~~ / NO

ELEMENT 11. COMMUNICATION PROGRAM

- 28. Is HDWD ‘s website up-to-date, including information related to providing an opportunity for public input on the SSMP? ~~YES~~ / NO

Evaluation of the Effectiveness of the SSMP

Below is a summary of SSOs associated with the HDWD wastewater collection system:

SSO Summary 2019 to 2021

Year	Number of SSOs	Total Volume (gallons)	Recovered	To Surface Water	% Recovery
2019	0	NA	NA	NA	NA
2020	1	1,750	0	0	0
2021	0	NA	NA	NA	NA

SSO Causes 2019 to November 2021

Year	Lift Station Malfunction	I/I Rainfall Exceeded Capacity	Debris	FOG	Other
2019	0	NA	NA	NA	NA
2020	1	0	0	0	0
2021	0	NA	NA	NA	NA

Review of Online SSO Reporting Data

A single SSO has occurred and has been reported to the State CIWQS system database and certified including the information below:

SSO Event ID: 868016

SSO Event Type: Category 2

Private Lateral: No

Agency:

Sanitary Sewer System: Hi-Desert Water District CS

Location Name: Barron Lift Station

Location Address:

Location City:

Zip Code:

Location County: San Bernardino

Reached Surface Water: No

Reach Storm Drainpipe: No

Spill reached storm drainpipe and return to sanitary sewer system: Not Applicable - Spill did not reach a separate storm drainpipe

Estimated spill volume: 1750.0

Spill Start Date/Time: 07/14/2020 06:00

Spill End Date/Time: 07/14/2020 06:35

Certified Person Name: Douglas E Culbert

Certified Person Title: Chief Plant Operator

Certified Date: 07/21/2020

SSO report in CIWQS system was certified with in the required 15 days.

Information on the public CIWQS system database for the SSO was not available. It was determined that the SSO had been reported and certified but that it did not appear in the public system due to a data error. State CIWQS staff are in the process of correcting the error allowing the SSO data to be viewed by the public.

Description of Scheduled Updates/Changes to the SSMP

- Update the organization and staffing contact information;
- Update GIS mapping capabilities;
- Update information about preventive operations and maintenance activities;
- Update SSO Overflow Emergency Response Plan (OERP); and
- Update information about the HDWD's FOG control program .

Completion of the above SSMP modifications will take place during the SSMP update to be completed prior to November 2024.

Administrative Comments

- Consider having another person review all SSO reports prior to submittal for QA/QC and reporting consistency.

SSMP Audit Conclusions

- There are five Elements of the SSMP that need to be modified to reflect the current organizational structure and District processes;
- Edits of many of the sections are contained in the District digital review copy of the SSMP.
- The most significant change is the inclusion of the newly develop OERP;
- Upon completion of the OERP staff training should be completed and documented and contained in the SSMP file/binder. This may also be a good time to provide SSMP training and documentation since there is overlap in the material;
- Formal incorporation of the changes into an updated SSMP should be completed prior to November 2024.