

City of Benicia Sewer System Management Plan (SSMP)



City of Benicia

.....Public Works Department

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Attachments

SWRCB Order 2006-003-DWQ with SWRCB Order 2013-0058-EXEC incorporated
2006-2008 Statements of Compliance (for SSMP Development)
RWB October 3, 2012 letter “Discontinuation of Requirements for Annual Reports of
Sanitary Sewer Overflows (SSOs), and Annual Sewer System Management Plan
(SSMP) Audits”
Enrollee’s Guide to SSO Database (Cover and Table of Contents only, with a link to
full document on the SCWCB web site)
SSMP Update Log
Benicia City Council Resolution No. 08-05 (SSMP Implementation Approval)
Benicia City Council Resolution No. 09-69 (Approval of the 2009 SSMP)

SECTION I—GOALS

Requirement¹

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

Goals

1. Properly manage, operate and maintain all parts of the wastewater collection system to provide reliable and uninterrupted service 99% of the time.
2. Provide adequate capacity to convey peak flows and reduce annual inflow and infiltration in the collection system.
3. Take all feasible steps to eliminate or reduce sanitary sewer overflows (SSOs) to less than twelve per year, declining over time to zero.
4. Mitigate the impact of SSOs utilizing safe, practical, proven and effective methods.
5. Provide Operations and Maintenance (O & M) training for all field crew and stand-by personnel who are involved in responding to Sewer System Overflows.

¹ SWRCB Order No. 2006-0003-DWQ § B.13 (i)

BACKGROUND

City of Benicia

The City of Benicia has a population of approximately 28,000 and is located approximately 35 miles northeast of San Francisco and 57 miles southwest of Sacramento. It was founded in 1847 along the north shore of the Carquinez Strait, where the combined flows of the Sacramento and San Joaquin rivers have cut a deep gorge through the Coast Range. The Strait is a crucial link in northern California's inland waterway, connecting San Pablo Bay and San Francisco Bay to the west with the Sacramento and San Joaquin River deltas to the east. Through the Strait, ocean-going ships can reach the Port of Benicia or continue on to the Central Valley ports of Sacramento and Stockton.

Until 1957 untreated sewage was being discharged directly into the Carquinez Strait from nine principal outfalls and numerous minor outfalls spaced over two miles of shoreline. Federal and State Legislators recognized that Cities all across the country were polluting large bodies of water and jeopardizing public health by hampering the beneficial use of these waters. In 1958 the City of Benicia completed construction of a Wastewater Treatment Plant on East 5th Street which has been upgraded and expanded several times and serves the community today. The City has 150 miles of sewer pipelines, over 9,000 service connections and 23 sewer lift stations.

Sanitary Sewer Overflow Reduction

The City of Benicia is committed to reducing Sewer System Overflows (SSOs) in order to decrease the risk to both human health and the environment; the number and size of SSOs generally can be reduced, if not prevented, through the application of sound and appropriate operation, infrastructure maintenance, and management principles to wastewater collection systems. In accordance with State Water Resources Control Board, Order No. 2006-0003 entitled, "Statewide General Discharge Requirements for Sanitary Sewer Systems," all sanitary sewer systems over one mile in length are required to implement a Sanitary Sewer System Management Plan (SSMP). The city has developed and implemented a citywide Sewer System Management Plan (SSMP). The SSMP includes the applicable elements that provide proper and cost effective management, operation, and maintenance of collection systems, while taking into consideration risk management and cost benefit analysis.

The City of Benicia has already implemented measures to reduce SSOs, and utilizes a statewide electronic reporting system for SSOs. The City has a maintenance crew of six and a supervisor for cleaning and repairing the sewer collection system. A staff of seven and a supervisor operate and maintain the 23 lift stations and 4.5 million gallons per day (MGD) wastewater treatment plant. Four laboratory technicians and a supervisor take water quality samples.