



CITY of PACIFICA, PUBLIC WORKS DEPARTMENT
CALERA CREEK WATER RECYCLING PLANT
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2/28/11

Bruce H. Wolfe, Executive Officer
California Regional Water Quality Control Board, San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612
ATTN: Claudia Villacorta

Dear Mr. Wolfe,

Subject: Annual Report of Sanitary Sewer System Overflows for Calendar Year 2011

The purpose of this letter is to report the Sanitary Sewer System Overflows (SSOs) that occurred in the City of Pacifica sanitary sewer system during the period January 1, 2011 through December 31, 2011. This report is submitted pursuant to the requirements included in the San Francisco Bay Regional Water Quality Control Board Letter, New Requirements for Reporting Sanitary Sewer Overflows, dated November 15, 2004.

Number and Size of SSOs

The total number of SSOs for the reporting period was 14. There were zero SSOs related to wet-weather during this period. The sizes of SSOs are summarized as shown on Table 1.

Table 1. Number of SSOs

Size of SSO (gallons)	Number	Percent of Total by Number
Greater than or equal to 1,000	0	0%
From 100 to 999	3	21%
From 10 to 99	3	14%
Less than 10 [can include in line above]	8	57%
[Public portion of lateral (<i>also included in above lines</i>)]	9	64%
Total	14	100%

The volume of spills contained and returned to the sanitary sewer system, as well as the volume reaching waters of the State is shown in Table 2.

Table 2. Volume of SSOs

	Volume (gallons)	Percent of Total by Volume
Total volume contained and returned to sewer system for treatment	499	100%
Total volume reaching waters of the State	0	0%
Total volume not contained but not reaching waters of the State (everything else)		
Total	499	100%

The highest volume SSO for 2011 was a 200 gallon spill on January 29th involving a root intruded joint of a six inch sewer main. The City is responsible for sewer service laterals if there is a cleanout no more than two feet from the property line and this report includes overflows that occurred in the public portion of the lateral. Of the 499 gallons that spilled and were contained in 2011, 54 gallons were from public sewer service laterals and 445 were from sewer mains. This report does not include SSOs that occurred from private sewer service laterals within the City of Pacifica jurisdiction that were caused by conditions in privately-owned laterals or on private property. The property owners are responsible for the condition and the operation of those sewer service laterals.

Cause of SSOs

The predominant cause of SSOs during the period of this report was root intrusion. The distribution of SSOs by cause is shown on Table 3.

Table 3. Causes of SSOs

Cause of SSO	Number	Percent of Total
Blockage:		
Roots	9	65%
Grease		
Debris	2	14%
Debris from Laterals		
Vandalism	1	7%
Animal Carcass		
Construction Debris	2	14%
Multiple Causes		
Subtotal for Blockage	14	
Infrastructure Failure		
Inflow & Infiltration		
Electrical Power Failure		
Flow Capacity Deficiency		
Natural Disaster		
Bypass		
Cause Unknown		
Total	14	100%

Location of SSOs

The SSOs that have occurred in the City of Pacifica are spread throughout our jurisdiction and there is no general location in which they are occurring. In the central neighborhoods of Sharp Park, Vallemar, and Rockaway there were three, one, and one SSOs respectively. In the southernmost neighborhood of Linda Mar, four SSOs occurred. Finally, there were five SSOs in the northernmost neighborhood of Pacific Manor.

SSO Trends

The number of SSOs from a main line in the City of Pacifica during 2011 decreased from the number in 2010, 16 to 5. The total number of annual SSOs has steadily decreased since 2008 as well.

Main Line SSOs	Year	2008	2009	2010	2011
	Annual Number	21	17	16	5

Total SSOs	Year	2008	2009	2010	2011
	Annual Number	39	22	20	14
	<i>Reduction Goal</i>				15

Under Part VI of the City's Consent Decree the SSO Reduction Performance Goal for 2011 was 15 and we were one SSO under our goal.

Sewer System Management Plan (SSMP)

The SSMP for the City of Pacifica has been completed and was certified by the City Council in a public meeting February 28th, 2011. There were no changes made to the SSMP during 2011.

A Master Plan for the Collection System has been developed by staff and RMC Engineering and implementation began in 2011. Two capacity related projects were completed in 2011 as part of the Master Plan.

Other Information

We have an ongoing sewer system maintenance program in which we use a power rodding truck and a hydro-jet rod truck to clean the system per a SSO Reduction Plan schedule. A computerized asset management/maintenance system (CMMS) program was implemented in September of 2011 (ICOM3 by Redzone Robotics) and we are now scheduling our maintenance and repair activities through the program. The SSO Reduction Plan was developed for the Division by RMC Engineering and the information from this plan was incorporated in the CMMS.

The Division has developed a CCTV in-house inspection program to identify sources of SSOs and infiltration and inflow and in 2011 approximately 24 miles of sewer mains were televised and inspected. Since our CCTV inspection program was implemented we have now televised and inspected approximately 55 miles of sewer mains, or 65% of Pacifica's sanitary sewer system. We expect to have the entire sanitary system completed by December of 2012.

We replace and spot-repair portions of the system on a regular basis that have the largest history of SSO problems, have been visually inspected and rated through the CCTV program, and found to have infiltration and inflow. In July of 2011 four additional employees were hired for the Division and this has allowed us to have a regular crew able to repair sewer issues identified through CCTV and SSO reports. Since the inclusion of the new employees and ending in 2011, we have made over 20 spot repairs, replaced three sewer service laterals, and constructed two overflow bypass lines in SSO trouble spots. All this work is now scheduled through the Division's CMMS program.

A smoke testing program was implemented in 2011 as part of the Division's Illicit Discharge Control Plan. The neighborhoods of Linda Mar, Pedro Point, and Fairway were tested and a preliminary report was delivered by the contractor with a final report due in the beginning of 2012.

Staff continues to administer a FOG and Source Control Program continues in which we inspect the food establishments and FOG producers in Pacifica at least every six months. A full-time source control inspector was hired in July of 2011 with the intent to increase the effectiveness of this program.

Finally, the employees that work in the Collection System Division of the Wastewater Dept. were assessed in 2011 by an outside consultant and a training plan was developed and initiated to increase the skills of the employees. The training plan will be implemented over a three year period with intensive week-long training occurring at six month intervals.

Certification

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed 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.

Sincerely,



Joshua Cosgrove
Assistant Superintendent, City of Pacifica