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## CITY OF PACIFICA

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Scenic Pacifica  
Incorporated Nov. 22, 1957

2/20/19

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

Dear Mr. Wolfe,

**Subject: SSMP Audit and Annual Report of Sanitary Sewer System Overflows for Calendar Year 2018**

The purpose of this letter is to report on the calendar year 2018 Sanitary Sewer System Overflows (SSOs) that occurred in the City of Pacifica sanitary sewer system during the period January 1, 2018 through December 31, 2018 and provide an audit of the Sewer System Management Plan (SSMP) for the same period. 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 and the Statewide General WDR dated May 2, 2006.

Number and Size of SSOs

The total number of SSOs for the reporting period was 4. 2 SSOs were related to wet-weather and at the same location during this period. 1 SSO was caused by a collapsed pipe and 1 from debris from a private lateral. 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	3	75%
From 100 to 999	0	0%
From 10 to 99	1	25%
Less than 10 [can include in line above]	0	0%
<b>Total</b>	<b>4</b>	<b>100%</b>

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**

	<b>Volume (gallons)</b>	<b>Percent of Total by Volume</b>
Total volume contained and returned to sewer system for treatment	1760	3.5 %
Total volume reaching waters of the State	48,150	96.5%
Total volume not contained but not reaching waters of the State (everything else)		
<b>Total</b>	<b>49,910</b>	<b>100%</b>

2018 seen a decrease in total SSOs. 2 SSOs were storm related and no sewage was recoverable. 2 SSO's were recovered completely at 1760 gallons.

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. On January 1, 2012 the City Council passed a new ordinance that, among other provisions, removed any responsibility for the maintenance or repairs of any part of a sewer service lateral regardless of the location of a cleanout. The property owners are responsible for the condition and the operation of the sewer service lateral from the structure to the sewer main line in the public right-of-way.

Cause of SSOs

The following table presents the causes of the SSOs during the period of this report and of the previous five years. The distribution of SSOs by cause is shown on Table 3.

**Table 3. Causes of SSOs**

Year	Total SSOs	Roots	F.O.G.	Debris	Vandalism	Pipe Failure	Capacity	Pump Station Failure	Other
2013	7	2		4		1			
2014	9	3	1	1			4		
2015	1	1							
2016	5						5		
2017	6	1					5		
2018	4			1		1	2		

### Location of SSOs

The 2 capacity related SSOs that occurred in the City of Pacifica were located within the 400-500 Block of Linda Mar Blvd. These manholes are the lowest manhole elevation locations in the Linda Mar Valley. The other 2 were in the Sharp Park region.

### SSO Trends

The number of SSOs from a mainline in the City of Pacifica during 2018 was a decrease from 2017.

**Table 4. Mainline SSOs**

Mainline SSOs	Year	2013	2014	2015	2016	2017	2018
	Annual Number	7	9	1	5	6	4

Under Part VI of the City's Consent Decree the SSO Reduction Performance Goal for 2018 was 7 and we were 3 SSOs under our goal. The goal of the Wastewater Division in 2018 was to have less than 5 SSOs during the calendar year and we achieved that goal.

### Sewer System Management Plan (SSMP)

No changes were made to the SSMP in 2018. To view the current version of the SSMP go to:  
[http://www.cityofpacifica.org/depts/wwt/waste\\_water\\_collection/sanitarymp.asp](http://www.cityofpacifica.org/depts/wwt/waste_water_collection/sanitarymp.asp)

### SSMP Audit

#### *Goals*

The goals for the Collections Division of the Wastewater Department are outlined below along with a sub-bullet describing whether it was accomplished:

1. Operate the collection system in accordance with state and federal law to minimize maintenance-related backups/overflows and to reduce wet weather inflow/infiltration
  - a. Accomplished
2. Locate points of inflow and infiltration through flow measurement/television inspection and develop improvement programs for problem areas
  - a. Accomplished
    - i. Performed CCTV activities throughout the year
    - ii. During wet-weather events we performed visual inspection of areas with known infiltration
3. Continue implementation and refinement of the CMMS and GIS map
  - a. Accomplished
4. Maintain sewer evaluation television system to comply with state regulations

- a. Accomplished
5. Continue implementing the Long Range Sanitary Sewer Capital Plan (LRSS-CIP)
  - a. Accomplished
6. Reduce sanitary sewer overflows (SSO) to under 5
  - a. Accomplished – 4 SSOs in calendar 2018
7. Continue to implement and evaluate chemical root control program
  - a. Accomplished – 11,652 linear feet of sewer mains were chemically treated in calendar 2018.
8. Perform at least 90 miles of line cleaning activities
  - a. Accomplished – Over 100 miles were cleaned
9. Perform at least 15 miles of CCTV inspection and assessment activities
  - a. Not accomplished – 12.28 miles of sewer mains were CCTV'd in calendar year 2018
10. Continue to perform sewer main and manhole repairs identified through line cleaning and CCTV activities
  - a. Accomplished – 48 in-house repairs made in 2018
  - b. Accomplished – By contract over 16,000 feet of damaged pipe was replaced. 8 manholes were replaced and 19 were rehabilitated.

### *Organization*

No changes were made to the organizational structure of the Collections Division and no changes were requested.

### *Legal Authority*

No changes were made to our legal authority and no changes were requested. On January 1, 2012 the Pacifica City Council passed an ordinance that, among many things, placed the responsibility for maintaining and upgrading individual building sewer laterals with the property owners and required a condition assessment and potential replacement of the sewer lateral at a transfer of property event, significant structure remodel, addition of drain or fixture, and a change in water services. This was our formal private sewer lateral ordinance. Staff enforced this ordinance through the year and performed 297 construction inspections of private sewer lateral replacements in 2018 many of which were replaced because of the private sewer lateral ordinance.

### *Overflow Emergency Response Plans (OERP)*

The OERP was updated in 2014 to reflect new changes to State regulations of sanitary sewer overflows and based on some feedback from the Collections staff. DKF Solutions, the consultant that collaborated with us to produce previous OERPs, was hired to work with us in updating our current OERP. This was accomplished in March of 2014 and the crews were retrained based on the updated procedures. The crews receive an annual refresher course. We successfully used the OERP for all SSOs during the year as well.

The OERPs for the pump stations did not require any changes and none were made. These plans continue to work well for us.

### *Operations and Maintenance*

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 based on 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 continue to schedule 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 data that is aggregated in the CMMS from line cleaning activities and CCTV activities are used to update the scheduled cleaning of the system and schedule any needed repairs. In 2018 Division staff cleaned approximately 100.5 miles of main lines using a mechanical power rodder (55 miles) and a hydro-jetter (45.5 miles). The Training Program identifies as performance metrics an average of six set-ups for a workday of power rodding and 10 set-ups with the hydro-jetter. A review of our performance data shows that we averaged in 2018 a little over five set-ups with the power rodder and 9 set-ups with our hydro-jetting units.

The Division has a CCTV in-house inspection program to identify sources of potential SSOs and infiltration and inflow and in 2018 approximately 12.28 miles of sewer mains were televised and inspected. We were not able to accomplish our desired 15 miles due to our workload with repairs and cleaning.

An inspection and assessment of our wastewater force mains was completed in 2014 under the project management of Brown and Caldwell. The inspection and assessment showed the various pipe types of the force mains to be in satisfactory condition and the report is available upon request.

The Division has a regular sewer repair crew that performs spot repairs of main lines identified as category four or five defects through CCTV and maintenance activities, and in some cases replaces whole pipe segments of the system. These in house repairs also represent manhole repairs. In 2018 the Division performed 48 repairs and main line replacements with this in-house crew. In addition to our in house repairs we issued to a pipeline replacement contract in 2018 which included the replacement 15,232 feet of 6 inch which was upsized to 8 inch. 912 feet of 8 inch was upsized to 12 inch.

We continued with our root foaming program using Duke's Root Control, Inc. Approximately 28,000 feet of main lines were identified from our CMMS data and CCTV inspections as having major root intrusion issues and Duke's was contracted to root foam those pipe segments. We performed quality control CCTV activities of most of the pipe segments that were root foamed over the last few years. We observed inhibited root growth in many of the pipe segments and the ones that did not appear to have been inhibited we had Duke's Root Control come back and perform a re-treatment. Approximately 95% of the pipe segments did not require re-treatment and appeared to have the root growth inhibited in a satisfactory manner.

The Division's training program continues to be a success with the CWEA training, regular bi-weekly safety training and weekly crew meetings. We will continue to receive training with Tilson & Associates (T&A). We will be reviewing and re-training on our customized standard operating procedures (SOPs) for the rod truck, sewer combination cleaner trucks, CCTV vehicle, and emergency response truck along with SSO calculation.

### *Design and Construction Standards*

No changes were made to our design and construction standards and no changes were requested.

### *Fats, Oils, and Grease (FOG) Program*

Staff continues to administer a FOG and Source Control Program in which we inspect the food establishments and FOG producers in Pacifica approximately 3 times a year. There are 73 FSE's and in 2018 we accomplished 292 inspections. Two employees administer this program and they work with local businesses to identify areas of non-compliance with our ordinances and will require upgrades where needed. Any establishments out of compliance are given a formal letter requiring them to become compliant or face enforcement action. In addition to issuing noncompliance letters our staff has now been authorized to issue monetary citations. We did issue to 2 citations during the year. We are now seeing near perfect compliance.

### *System Evaluation and Capacity Assurance Plan*

#### Capital Plan and Master Plan Implementation

A copy of our updated LRSS-CIP is included with this report. The LRSS-CIP update included any additional condition assessment information from the CMMS and CCTV activities that had not been completed at the time the original LRSS-CIP was put together. The major project completed in 2018 was the replacement of an entire drainage basin. The area known as Pedro Point which consists of over 3 miles of main lines was replaced and upsized for capacity. During this project we provided incentive to private lateral owners to replace with our contractor during the project at a discounted rate. 40 laterals were replaced during the project while many of the private laterals in this area were recently replaced through our ordinance via home sales and additions.

The "Equalization Basin Project" (EQ Basin) is one of the capacity improvement projects recommended in the City of Pacifica Collection System Master Plan and mandated by the Cease and Desist Order (CDO) issued by the California Regional Water Quality Control Board and the Consent Decree (CD) with Our Children's Earth Foundation.

On September 28, 2015, the City Council approved the final location for the project, and on October 12, 2015 approved the contract with 4LEAF Inc. for Project and Construction Management Services. Then on November 9, 2015, the City Council approved the contract with TerraPhase to perform CEQA evaluation for the project. Then finally, on December 14, 2015, the City Council approved the contract with Freyer and Laureta, Inc. to perform the engineering design. The design for the EQ Basin project began shortly after Council approved Freyer and Laureta, and by November 2016 the 95% design was completed. On December 2016 the draft Mitigated Negative Declaration/Initial Study (MND/IS) was completed, and public comment period lasted from December 8, 2016 to January 13, 2017. On January 2016 Freyer and Laureta completed 100% design for the EQ Basin. On February 6, 2017 the Planning Commission approved the final MND/IS and approved the use of Permit. The project began construction in June 2017 and is scheduled to be completed by May 2019. This project was originally scheduled to be completed by December 2018 but construction delays have put it past due. However the City did construct a temporary EQ basin with the assistance of Rain for Rent. The temporary EQ basin consist of 16 portable tanks with a capacity of 320,000 gallons and 3 mobile 6 inch pumps to move flow from the wet well at the Linda Mar Lift Station into the tanks. These tanks have prevented 2 major spills in 2018.

*Monitoring, Measurement, and Program Modifications*

We continually perform these functions and make modifications to our programs when deficiencies are identified. This report is the formal summary of the ways in which we monitor and measure performance and the actual and potential program modifications based on our performance.

*SSMP Audits*

*Communication*

No changes were made to our Communication program. In 2018 we had public outreach meetings regarding the equalization basin project and also numerous neighborhood meetings discussing the benefits of private lateral replacement while we upgrade our mainlines.

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,

A handwritten signature in blue ink, appearing to read 'B. Martinez', is written on a light-colored background.

Brian Martinez

Collection System Manager, City of Pacifica

**CITY OF PACIFICA**  
**LONG RANGE SANITARY SEWER CAPITAL IMPROVEMENT PLANS - FY 2011-2032**  
**(Updated February 2019)**

PROJECTS	BEGIN DATE	DATE COMPLETED/ ESTIMATED COMPLETION	DURATION	EST. COST
<b>LINDA MAR FLOW EQUALIZATION (WET WEATHER EQUALIZATION BASIN PROJECT)</b>	Sep-12	Dec-18	4 -5 years	\$ 24,500,000.00
			<b>TOTAL</b>	<b>\$ 24,500,000.00</b>
<b>CAPACITY IMPROVEMENT PROJECTS:</b>				
PALMETTO MAINLINE (MasterPlan Project ID. 9)	Jun-12	Sep-12	3 months	\$ 376,700.00
DESOLO MAINLINE (MasterPlan Project ID. 8)*	Jul-13	Dec-13	6 months	\$ 76,000.00
ARGUELLO MAINLINE (MasterPlan Project ID.7)*	Jul-13	Dec-13	6 months	\$ 240,000.00
MILAGRA MAINLINE (MasterPlan Project ID.10)	Feb-16	Apr-16	1 month	\$ 48,000.00
AVALON MAINLINE (Master Plan Project ID.11)	Feb-16	Apr-16	1 month	\$ 10,000.00
MANOR MAINLINE (Master Plan Project ID. 12)		Not Needed		\$ -
SAN PEDRO MAINLINE (Master Plan Project ID.6)*	Dec-17	Dec-18	12 months	\$ 180,000.00
LINDA MAR MAINLINE (Master Plan Project ID.5)*		Not Needed		\$ -
PERALTA RD MAINLINE (Master Plan Project ID.4)*	Feb-15	Jul-15	4 months	\$ 45,000.00
ODDSTAD MAINLINE (Master Plan Project ID. 1)*	Mar-19	Jun-19	3 months	\$ 420,000.00
TERRA NOVA MAINLINE (Master Plan Project IDs. 2 &3)*	Mar-19	Jun-19	3 months	\$ 500,000.00
LINDA MAR PUMP STATION 4th PUMP (Master Plan Project ID.13B)		Not Needed		\$ -
			<b>TOTAL</b>	<b>\$ 1,895,700.00</b>
<b>REHAB AND REPLACEMENT PROJECTS:</b>				
FY 2012 - 14 (North side of Lower Linda Mar)	Jul-13	Jun-14	12 months	\$ 1,736,556.00
FY 2014 - 15 (South side of Lower Linda Mar)	Feb-15	Jul-15	4 months	\$ 1,200,000.00
FY 2016 - 18 (Pedro Point)	May-17	Jan-19	18 months	\$ 4,077,200.00
FY 2019 - 22 (@ \$1,000,000/FY) (Locations to be determined)	Feb-18		12 months/FY	\$ 3,000,000.00
FY 2022 - 32 (@ \$1,000,000/FY) (Locations to be determined)	Feb-23		12 months/FY	\$ 15,000,000.00
			<b>TOTAL</b>	<b>\$ 25,013,756.00</b>
<b>OTHER COLLECTION SYSTEM PROJECTS NOT INCLUDED IN THE MASTERPLAN:</b>				
MAINLINE REPLACEMENT AT AVALON AND EDGEMAR	Jan-11	Mar-11	2 months	\$ 104,980.00
SANITARY SEWER IMPROVEMENTS AT BOWER ROAD	Nov-11	Mar-12	3 months	\$ 175,370.00
LINDA MAR GENERATOR REHABILITATION (CONSTRUCTION PHASE)	Jun-14	Jun-15	4 months	\$ 583,974.00
PALMETTO AVE FORCEMAIN IMPROVEMENT	Feb-14	Jun-16	18 months	\$ 500,000.00
CRESPI SANITARY SEWER MAIN REPAIR PROJECT (C005E)	Sep-16	Jan-18	16 months	\$ 1,174,580.00
CRESPI DRIVE AND HIGHWAY 1 SEWER MAIN REPAIR PROJECT (C00F)	Aug-17	Jun-18	10 months	\$ 327,000.00
HEATHCLIFF SANITARY SEWER MAINLINE (C00G)	Jan-18	Mar-18	3 months	\$ 50,000.00
COLLECTION SYSTEM PROJECT FY 2016-17 (C005D)	Dec-16	Jan-18	13 months	\$ 737,360.00
COLLECTION SYSTEM PROJECT FY 2019-22 (@\$150,000/FY)	Jul-19	Jun-32		\$ 1,950,000.00
RELOCATION OF MAINLINE AT SHARP PARK PUMP STATION#	TBD			\$ 400,000.00
RELOCATION OF SHARP PARK FORCEMAIN#	TBD			\$ 400,000.00
			<b>TOTAL</b>	<b>\$ 6,403,264.00</b>
<b>NOTES:</b>				
* Capacity Improvement Projects will be included with the Rehab and Replacement Project for that Fiscal Year			<b>GRAND TOTAL</b>	<b>\$ 57,812,720.00</b>
# Schedule of Project will be dependent on the Redevelopment of the Beach Boulevard Property				