



Los Angeles Regional Water Quality Control Board

June 18, 2012

Ms. Claudine Meeker Deputy Director of Utilities City of Alhambra 111 South First Street Alhambra, CA 91801 VIA CERTIFIED MAIL.
RETURN RECEIPT REQUESTED
Claim No. 7005 0390 0000 4138 5221

Dear Ms. Meeker:

NOTICE OF VIOLATION - CITY OF ALHAMBRA, UNPERMITTED DISCHARGES OF RAW SEWAGE - ALHAMBRA, CALIFORNIA, (ORDER NO. 2006-0003-DWQ)

The City of Alhambra (Enrollee) operates a sanitary sewer collection system (hereafter, collection system), regulated under waste discharge requirements contained in State Water Resources Control Board Order No. 2006-0003-DWQ Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (Sanitary Sewer Collection System Order), adopted by the State Water Resources Control Board on May 2, 2006.

The Sanitary Sewer Collection System Order contains waste discharge requirements and a monitoring and reporting program for the operation of the Enrollee's collection system referenced above. Wastewater conveyed by the Enrollee's collection system is susceptible of containing high levels of suspended solids, pathogenic organisms, toxic pollutants, nutrients, oxygen-demanding organic compounds, oil and grease, and other pollutants which can degrade water quality and impact beneficial uses of water, and which are defined as wastes under the Porter-Cologne Water Quality Control Act (CWC § 13000 et seq.).

The Sanitary Sewer Collection System Order prohibits any Sanitary Sewer Overflow (SSO) that results in a discharge of untreated or partially treated wastewater to waters of the United States. Furthermore, the Enrollee is required to report all SSOs to the statewide CIWQS SSO Online Database¹. The Enrollee reported 18 SSOs in the CIWQS SSO Online Database to comply with the Sanitary Sewer Collection System Order Amended Monitoring and Reporting Program (hereafter, Amended MRP), between January 1, 2007 and December 31, 2011 (see Exhibit 1 – attached).

On December 20, 2011, the Los Angeles Regional Water Quality Control Board (Regional Board), along with the State Water Board and EPA Region 9, conducted an inspection of the City of Alhambra's collection system to evaluate compliance with the Sanitary Sewer Collection System Order. The inspection report is enclosed for your reference (see Exhibit 2 – attached).

You are hereby notified that the Enrollee is in violation of the Sanitary Sewer Collection System Order and has violated California Water Code (CWC) §§ 13350 and 13383 as follows:

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https://ciwqs.waterboards.ca.gov/ciwqs/readOnly/PublicReportSSOServlet?reportAction=criteria&reportId=sso main

Sanitary Sewer Overflows (SSOs):

The City of Alhambra is in violation of the Sanitary Sewer Collection System Order for SSOs reported between January 1, 2007 through December 31, 2011. Twelve (12) of these SSOs reached surface waters and impacted waters of the State, as identified in Exhibit 1. Furthermore, one (1) SSO which occurred on April 4, 2011, was not reported and certified into the CIWQS SSO Online Database by the City of Alhambra, a violation of the Amended MRP.

You are required to immediately:

- 1. Comply with all the requirements contained in the Sanitary Sewer Collection System Order;
- 2. Address the issues listed in items 1 through 11 of the "Inspection Summary" of the inspection report;
- 3. Submit, by **July 18, 2012**, a report to the Regional Board identifying how the Enrollee will comply with the above items. You may include a copy of your response to EPA's May 30, 2012 correspondence as part of your report. The report must be submitted as a pdf via email or disk to Mr. Chris Lopez, 320 W. 4th Street, Suite 200, Los Angeles, CA 90013-2343, chlopez@waterboards.ca.gov, (213) 576-6806.

Pursuant to CWC § 13350, subdivision (e), the Enrollee is subject to penalties of up to \$5,000 for each day in which a violation occurs or \$10 for each gallon of waste discharged, but not both. Pursuant to CWC § 13385, the Enrollee is subject to penalties of up to \$10,000 for each day in which a violation occurs plus \$10 multiplied by the number of gallons by which the volume discharged but not cleaned up exceeds 1,000 gallons. The Regional Board may refer this matter to the Attorney General for judicial enforcement. The Regional Board reserves its right to take any enforcement actions authorized by law.

If you have any questions regarding this matter, please call Mr. Hugh Marley at (213) 620-6375 or Mr. Chris Lopez at (213) 576-6806.

Sincerely,

Paula Rasmussen

Assistant Executive Officer

Enclosures:

Exhibit 1 - City of Alhambra SSOs

Exhibit 2 – NPDES Compliance Evaluation Inspection Report dated May 30, 2012

cc: (via e-mail

Martin Ray, City of Alhambra, Deputy Director of Utilities
JoAnn Cola, USEPA Region 9, Clean Water Act Compliance Office
Jim Fischer, State Water Resources Control Board, Office of Enforcement
Mayumi Okamoto, Office of Enforcement, State Water Resources Control Board

EXHIBIT 1:
City of Alhambra SSOs
(as reported on CIWQS as of 6/1/12)

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Volume of SSO Reaching Surface Water (gallons)*	000'26	6,750	25	0	0	006	100	006	0	25,000	380		450	-	400	150	-	100	162,155
Volume of SSO Recovered (gallons)*	138,000	0	25	15	0	0	100	0	150	0	50	6	0	09	2,000	250	15	125	140,799
Volume of SSO (gallons)*	138,000	6,750	50	15	. 05	006	200	006	150	25,000	430	σ	450	09	2,400	400	15	225	206,004
Name of Impacted Surface Water(s)	Los Angeles River	Los Angeles River	Los Angeles River		Los Angeles River	Los Angeles River	Alhambra Wash	Los Angeles River	-	Los Angeles River	Los Angeles River		Alhambra Wash	-	Alhambra Wash	Alhambra Wash		Los Angeles River	TOTALS
City	Alhambra	Alhambra	Alhambra	Alhambra	Alhambra	Alhambra	Alhambra	Alhambra	Alhambra	Alhambra	Alhambra	Alhambra.	Alhambra	Alhambra	Alhambra	Alhambra	Alhambra	Alhambra	
SSO Address	300 Mission Road	1700 Westmont Drive	Shorb Street	Charnwood Avenue	913 Clay Court	3220 Balzac Street	613 Marguerita Avenue	1717 Westmont Drive	708 Curtis Avenue	3220 Balzac Street	321 Orange Grove Avenue	708 Westboro Avenue	1204 Sarazen Drive	1204 Sarazen Drive	1204 Sarazen Drive	1145 New Avenue	816 Almansor Street	1810 Orange Grove Avenue	
Start Date	10/20/2011 2:50:00 PM	3/21/2011 6:30:00 AM	2/8/2011 10:35:00 AM	10/17/2010 12:30:00 PM	3/2/2010 11:17:00 AM	11/28/2009 9:20:00 AM	1/9/2009 10:30:00 AM	8/26/2008 10:00:00 PM	3/17/2008 10:00:00 AM	2/3/2008 6:00:00 PM	10/27/2007 5:15:00 PM	10/17/2007 8:15:00 AM	10/6/2007 11:45:00 AM	9/15/2007 9:30:00 AM	9/16/2007 9:50:00 AM	6/25/2007 10:45:00 AM	4/26/2007 10:51:00 AM	1/4/2007 11:05:00 AM	
SSO Category	Category 1	Category 1	Category 1	Category 2	Category 1	Category 1	Category 1	Category 1	Category 2	Category 1	Category 1	Category 2	Category 1	Category 2	Category 1	Category 1	Category 2	Category 1	_
Collection System	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	Alhambra City CS	
Responsible Agency	Alhambra City	Alhambra City	Alhambra City	. Alhambra City	Alhambra City	Alhambra City	Alhambra City	Alhambra City	Alhambra City	Alhambra City	Alhambra City	Alhambra City	Alhambra City	Alhambra City	Alhambra City	Alhambra City	Alhambra City	Alhambra City	

Exhibit 2

NPDES Compliance Evaluation Inspection Report dated May 30, 2012



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

75 Hawthorne Street San Francisco, CA 94105

May 30, 2012

Mr. Dennis Ahlen City of Alhambra 111 South First Street Alhambra, California 91801

Dear Mr. Ahlen:

Enclosed is the May 30, 2012, report regarding EPA's Clean Water Act compliance inspection of the City of Alhambra's sewer collection system conducted on December 20, 2011. Attached to the report is a copy of the Inspection Form completed by the City and submitted to EPA during the inspection. EPA completed the inspection participants section. The main findings of EPA's compliance inspection are summarized below:

- EPA recommends that the City enhance its efforts to eliminate sewage overflows from its collections system.
- EPA recommends that the City improve its documentation and reporting of sewage overflows.

Please review this report and if any factual disputes are identified, please contact EPA within 14 calendar days of receipt of this letter. Please provide a response to each of the recommendations in the report within 30 calendar days of receipt of this letter. Thank you for your cooperation and the cooperation of your staff during the inspection. If you have any questions, please feel free to contact JoAnn Cola of my staff by e-mail at cola.joann@epa.gov.

Sincerely,

Ken Greenberg, Chief

Clean Water Act Compliance Office

Enclosure

cc: Hugh Marley, Los Angeles Regional Water Quality Control Board
Julie Berrey, State Water Resources ControlBoard



U.S. ENVIRONMENTAL PROTECTION AGENCY

REGION 9

CLEAN WATER ACT COMPLIANCE OFFICE

NPDES COMPLIANCE EVALUATION INSPECTION REPORT

Utility Name:

City of Alhambra Sewage Collection System

NPDES Permit Number:

N/A

Date of Inspection:

December 20, 2011

Inspection Participants:

Inspector Agency

JoAnn Cola	Environmental Protection Agency
Julie Berrey	State of California Water Board
Andrew Choi	Los Angeles Regional Water Board
Chris Lopez	Los Angeles Regional Water Board
Hugh Marley	Los Angeles Regional Water Board
Jose Morales	Los Angeles Regional Water Board

Utility Personnel Title

Martin Ray	Deputy Director of Utilities
Dennis Ahlen	General Manager of Utilities
Ron Capotosto	Production Supervisor
Claudine Meeker	Deputy Director of Utilities

Report Prepared By:

JoAnn Cola, Environmental Engineer

Date Prepared:

May 30, 2012

@EDA	United States Environmental Protection Agency Washington, D.C. 20460						
APLI /~	Water Complian	ce Inspection Rep	ort				
	Section A: Nat	ional Data System Coding (i.e	e., PCS)				
Transaction Code	NPDES 3 1 1 1 11	yr/mo/day 12 / / / 2 2 0 17 Remarks	Inspection Type	Inspector Fac Type			
21				<u> </u>			
Inspection Work Days 67 0 / 0 69							
		Section B: Facility Data					
Name and Location of include POTW name	of Facility Inspected <i>(For industrial users c</i> and NPDES permit number)	lischarging to POTW, also	Entry Time/Date	Permit Effective Date			
CITY OF ALL			12/20/2011				
	GILST STREET		Exit Time/Date	Permit Expiration Date			
MHAMBR	4 CALIFORNIA 9180;		12120/2011				
MARTIN RAY,	Representative(s)/Title(s)/Phone and Fax l DEPUTY DINECTOR OF UTILITY DEPUTY DINECTOR	ES 626-570-3280(P) 626-881-9023(F)	Other Facility Data (descriptive information	e.g., SIC NAICS, and other on)			
CLAUDINE NET	EXER, DEPUTY DIRECTOR OF H	TILITIET 626-540-5080(p) 626-282-5833(F)					
RON CHATOSTO, DENNIS AHLEN	PRODUCTION HAND GET 616		2				
Name Address of Re	esponsible Official/Title/Phone and Fax No	ımber					
DENNIS AHLE CITY OF ALF III BOUTH FIR		WYes No					
	CA 91801 026-570-3274	(P): 626-281-9023(F)					
	Section C: Areas Evaluated D	Ouring Inspection (Check only	those areas evalua	ted)			
Permit	Self-Monitoring		harmont "	154			
Records/Re	· ——	chedules Pollution Pre		,			
	eiving Waters Operations & I		ewer Overflow	•			
Flow Measu	rement Sludge Handli	ng/Disposal Sanitary Sew	ver Overflow				
(Atta	Section D: ch additional sheets of narrative and	Summary of Findings/Comm	ents vent Violation codes	s, as necessary)			
SEV Codes	SEV Description			·			
ADDZD.	138,000 gallon SSO 10/20	12011		*			
a de la	6,200 gallon SSO 3/21/	2011					
40020 55,000 gallon SSO 2/3/2008							
Name(s) and Signatu	ife(s) of inspector(s)	Agency/Office/Phone and F US EPA REGION 9	ax Numbers	Date			
Marie	Ma	415-972-3578 (P)	415-947-3545 (F	5/30/2012			
		' c					
			•				
Signature of Management Q Affeviewer Agency/Office/Phone and Fax Numbers Manager, CWA Compliance Signature 5/36/12							

INSTRUCTIONS

Section A: National Data System Coding (i.e., PCS)

Column 1: Transaction Code: Use N, C, or D for New, Change, or Delete. All inspections will be new unless there is an error in the data entered.

Columns 3-11: NPDES Permit No. Enter the facility's NPDES permit number - third character in permit number indicates permit type for U=unpermitted, G=general permit, etc.. (Use the Remarks columns to record the State permit number, if necessary.)

Columns 12-17: Inspection Date. Insert the date entry was made into the facility. Use the year/month/day format (e.g., 04/10/01 = October 01, 2004).

Column 18: Inspection Type*. Use one of the codes listed below to describe the type of inspection:

Α	Performance Audit	U	IU Inspection with Pretreatment Audit	i	Pretreatment Compliance (Oversight)
В	Compliance Biomonitoring	_ X	Toxics inspection	•	College up (aufageaugus)
C	Compliance Evaluation (non-sampling)	Z	Sludge - Biosolids	@	Follow-up (enforcement)
Ď	Diagnostic	#	Combined Sewer Overflow-Sampling	E	Storm Water-Construction-Sampling
F	Pretreatment (Follow-up)	\$	Combined Sewer Overflow-Non-Sampling	:	• •
Ğ	Pretreatment (Audit)	+	Sanitary Sewer Overflow-Sampling	ł	Storm Water-Construction-Non-Sampling
ĭ	Industrial User (IU) Inspection	&	Sanitary Sewer Overflow-Non-Sampling	:	Storm Water-Non-Construction-Sampling
3	Complaints	١	CAFO-Sampling	·	•
M	Multimedia	=	CAFO-Non-Sampling	~	Storm Water-Non-Construction-
N	Spill	2	IU Sampling Inspection	_	Non-Sampling Storm Water-MS4-Sampling
ö	Compliance Evaluation (Oversight)	3	IU Non-Sampling Inspection		
P	Pretreatment Compliance Inspection	4	IU Toxics Inspection	-	Storm Water-MS4-Non-Sampling
Ŕ	Reconnaissance	5	IU Sampling inspection with Pretreatment	>	Storm Water-MS4-Audit
S.	Compliance Sampling	6	IU Non-Sampling Inspection with Pretreatment	•	
٠.	Compilation Camping	, 7	IU Toxics with Pretreatment		

Column 19: Inspector Code. Use one of the codes listed below to describe the lead agency in the inspection.

A — — — — — — — — — — — — — — — — — — —	State (Contractor) EPA (Contractor) Corps of Engineers Joint EPA/State Inspectors—EPA Lead Local Health Department (State)	 O— Other Inspectors, Federal/EPA (Specify in Remarks columns) P— Other Inspectors, State (Specify in Remarks columns) R— EPA Regional Inspector S— State Inspector T— Joint State/EPA inspectors—State lead
h=	NEIC inspectors	to built dialogal it inoposition dialogical

Column 20: Facility Type. Use one of the codes below to describe the facility.

- 1 Municipal. Publicly Owned Treatment Works (POTWs) with 1987 Standard Industrial Code (SIC) 4952.
- 2 Industrial. Other than municipal, agricultural, and Federal facilities.
- 3 Agricultural. Facilities classified with 1987 SIC 0111 to 0971.
- 4- Federal. Facilities identified as Federal by the EPA Regional Office.
- 5 Oll & Gas. Facilities classified with 1987 SiC 1311 to 1389.

Columns 21-66: Remarks. These columns are reserved for remarks at the discretion of the Region.

Columns 67-69: Inspection Work Days. Estimate the total work effort (to the nearest 0.1 work day), up to 99.9 days, that were used to complete the inspection and submit a QA reviewed report of findings. This estimate includes the accumulative effort of all participating inspectors; any effort for laboratory analyses, testing, and remote sensing; and the billed payroll time for travel and pre and post inspection preparation. This estimate does not require detailed documentation.

Column 70: Facility Evaluation Rating. Use information gathered during the inspection (regardless of inspection type) to evaluate the quality of the facility self-monitoring program. Grade the program using a scale of 1 to 5 with a score of 5 being used for very reliable self-monitoring programs, 3 being satisfactory, and 1 being used for very unreliable programs.

Column 71: Biomonitoring information. Enter D for static testing. Enter F for flow through testing. Enter N for no biomonitoring.

Column 72: Quality Assurance Data Inspection. Enter Q if the inspection was conducted as followup on quality assurance sample results. Enter N otherwise.

Columns 73-80: These columns are reserved for regionally defined information.

Section B: Facility Data.

This section is self-explanatory except for "Other Facility Data," which may include new information not in the permit or PCS (e.g., new outfalls, names of receiving waters, new ownership, other updates to the record, SIC/NAICS Codes, Latitude/Longitude).

Section C: Areas Evaluated During inspection

Check only those areas evaluated by marking the appropriate box. Use Section D and additional sheets as necessary. Support the findings, as necessary, in a brief narrative report. Use the headings given on the report form (e.g., Permit, Records/Reports) when discussing the areas evaluated during the inspection.

Section D: Summary of Findings/Comments

Briefly summarize the inspection findings. This summary should abstract the pertinent inspection findings, not replace the narrative report. Reference a list of attachments, such as completed checklists taken from the NPDES Compliance Inspection Manuals and pretreatment guidance documents, including effluent data when sampling has been done. Use extra sheets as necessary.

*Footnote: In addition to the inspection types listed above under column 18, a state may continue to use the following wet weather and CAFO inspection types until the state is brought into ICIS-NPDES: K: CAFO, V: SSO, Y: CSO, W: Storm Water 9: MS4. States may also use the new wet weather, CAFO and MS4 inspections types shown in column 18 of this form. The EPA regions are required to use the new wet weather, CAFO, and MS4 inspection types for inspections with an inspection date (DTIN) on or after July 1, 2005.

Inspection Summary

- 1. Introduction. On December 20, 2011, staff from EPA Region 9, the Los Angeles Regional Board, and the State Water Board inspected the wastewater collection system owned and operated by the City of Alhambra. The purpose of the inspection was to determine compliance with the Clean Water Act. Alhambra is a city of 7.5 square miles located approximately 5 miles northeast of Los Angeles with a population of 83,000. Alhambra's sewage collection system consists of 130 miles of pipe with 7 pump stations and 3 siphons. In addition to flow generated within the City of Alhambra, a small amount of flow estimated by the City to be approximately 20 to 50 gallons per minute, enters the system from the City of Monterey Park into 2 of Alhambra's lift stations. Alhambra is a satellite collection system tributary to Los Angeles County Sanitary District 16. Information provided by Alhambra representatives is summarized in the Inspection Form, above. This summary provides highlights of EPA's inspection findings.
- 2. Regulatory Requirements. Discharges to waters of the United States without a permit are prohibited by Section 301(a) of the Clean Water Act. The Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, DWQ No. 2006-0003, states that any spill that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited.
- 3. Occurrence of SSOs. Discharges to waters of the United States without a permit are prohibited by Section 301(a) of the Clean Water Act. In addition, Part C.1 Prohibitions of the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, Order No. 2006-0003-DWQ, states that any spill that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited.

During the 5-year period between January 1, 2007 and December 20, 2011, 18 Sanitary Sewer Overflows ("SSOs") occurred due to blockages or problems originating in Cityowned assets, according to both the California Integrated Water Quality System ("CIWQS") database and the inspection questionnaire that was filled out by the City of Alhambra and submitted following the inspection. Of these, 12 SSOs were reported to have reached surface waters. The City owns and is responsible for the operation and maintenance of 130 miles of pipe.

Of the SSOs reported to the CIWQS database by the City, an SSO due to pipe failure accounted for approximately 60% of the spill volume; however, most of the SSOs were due either to pump stations failure; Fats, Oils, and Grease ("FOG"); or root intrusion.

The City reported that all of its system is cleaned annually, and that hot spots due to roots and FOG are cleaned twice per year. According to City staff, the number of hot spots was reduced from 311 in 2007 to 3 due to improvements in the cleaning program.

Order No. 2006-0003-DWQ requires the SSMP to include regular visual inspection of the system in the maintenance program. Section II of the City's Sewer System Management plan ("SSMP") states that CCTV is the primary method of inspection for condition assessment, should be used to update the CIP, and to modify the hot spot list. The City's Rehabilitation Report recommends routine CCTV inspection every ten years, with problem locations inspected more frequently. The City stated to the inspection team that although it is in the process of procuring CCTV equipment, it currently has no CCTV equipment of its own and contracts out CCTV work. It has no program in place for routine CCTV, and does not CCTV following SSOs. Despite improvements in the sewer cleaning program, the number of SSOs during 2011 increased over the previous several years.

Recommendation: The City is required by Order No. 2006-0003-DWQ to take all feasible steps to eliminate SSOs; therefore, it should continue increasing its efforts to reduce SSOs. It should intensify its focus on pump stations, FOG, and root control programs. The City should follow the recommendations of its Rehabilitation Report and continue its plan to procure CCTV equipment, thus enabling it to CCTV following SSOs and to perform routine CCTV inspection.

4. Documentation of SSOs. The State Water Resources Control Board's Order No. 2006-0003-DWQ Statewide General Waste Discharge Requirements requires Alhambra to develop and implement an SSMP, including a Sewer System Overflow Response Plan ("SSORP"). Monitoring and Reporting Program No. 2006-0003-DWQ establishes requirements for monitoring, recordkeeping, and reporting. Paragraph B of the Monitoring Program requires that the documentation related to SSOs must be maintained by the Enrollee for a period of five years. The required documents include copies of the report submitted to California Integrated Water Quality System ("CIWQS"), logs of SSO calls, service call records, SSO records, complaints, and maintenance records.

During the inspection, City staff stated that it maintains sheets for all calls regarding sewage discharges. Calls received by the Police Department, which includes all calls received after normal business hours, are not limited to sewer calls. These dispatch logs are not accessible by the Utilities department staff. The City staff said that it maintains a spreadsheet to record discharges by fiscal year. The City records the time of the first call as the spill start time but told the inspection team that it does no further investigation to determine the actual time the spill began. A review of field reports submitted by the City following the inspection revealed that in most cases, the spill start time was reported as the time the call was received; but in some cases, the time the call was received was the

same time the response crew arrived at the spill location. Although the City told inspectors that it can attach photographs to the field reports, none of the field reports submitted to EPA after the inspection contained photographs.

The City explained to the inspection team that it uses the "San Diego charts" when estimating spill volume. In fact, the City's SSORP provides both a copy of the City of San Diego's "Reference Sheet for Estimating Sewer Spills from Overflowing Manholes" and California Water Environment Association ("CWEA's") "Sample Templates for SSO Volume Estimation". The San Diego chart depicts several overflowing manholes with approximate flow rates for each. The CWEA's tables determine an estimate of flow from manholes when manhole cover size and height of the outflow are known. Both the San Diego chart and the CWEA tables provide a means for estimating flow rate from a spilling manhole; but to use either to estimate total spill volume, one must also have an accurate estimate of the spill duration. The City's SSO Field Incident Report form contains a field for SSO volume, but no fields are included for entering the observed flow rate, manhole size, height of the outflow observed, or for making calculations or sketches. The field reports provide no information regarding whether either the tables or chart were used, or describe how the volume was actually calculated. City staff told inspectors that the total volume is most often estimated visually, meaning that volume estimation is essentially a guess.

Recommendation: To comply with the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, the City should make all efforts to improve the completeness and accuracy of its documentation of SSOs. Standard procedures should be established for preparing complete and accurate documentation of SSOs, beginning with the logging of the initial call from the public until the final spill report is submitted to CIWQS. When possible, response crews should follow up to reasonably determine the actual time the SSO began. The City should also consider preparing spill response documentation kits to be maintained in its service vehicles, including tools to aid in estimating SSO volume, including digital cameras. All staff that responds to SSOs should receive additional training in preparing and maintaining SSO documentation.

5. Reporting of SSOs. According to the State Water Resources Control Board's Order No. 2006-0003-DWQ Statewide General Waste Discharge Requirements, the City of Alhambra is required to report all SSOs to the State's CIWQS database. During the inspection, City staff told the inspection team that they define any discharge from the collection system to be an SSO. During review of field reports, one SSO was discovered that appears to not have been reported to CIWQS. This SSO occurred on April 4, 2011 at 200 West Main Street. According to the field report, the spill was caused by extensive FOG accumulation in the City's main, and seemed to have been mostly contained in the basement of the building, with some flow in a parking lot and alley next to the building. During the interview, City staff stated to the inspection team that it does not report

"basement backups" to CIWQS. "Basement backups" are those spills that may occur on private property but are due to blockages in city-owned pipe.

On October 20, 2011, a 423,000 gallon SSO occurred at the intersection of Mission Road at San Pasqual Avenue ("San Pasqual SSO"). Of the 423,000 gallons spilled from the failed line on Mission Road into the San Pasqual sewer line, only the 138,000 gallons that subsequently entered a storm drain were reported to the State's CIWQS database for the "estimated spill volume." The CIWQS SSO Report further states 138,000 gallons as the "estimated volume of spill recovered" and 97,000 gallons as the "estimated volume (greater than 0) of spill that reached surface water, drainage channel, or not recovered from separate storm drain." The City should have reported the estimated spill volume as 423,000 gallons. As a result, the spill volume reported to CIWQS and the spill volume that the City entered on page 5 of the Inspection Form are both incorrect. During the inspection, the City explained that the spill volume recovered was based on cleanup efforts performed downstream of the storm drain outfall.

Recommendation: The City must report all SSOs, including "basement backups", as required by the State's Monitoring and Reporting Program No. 2006-0003-DWQ. The City should provide EPA and the State with the reasons any SSOs were not reported to CIWQS and report all missing SSO data to CIWQS, as appropriate. The City must also correctly report the total SSO spill volumes to CIWQS. To better explain the spill volume estimates included in CIWQS SSO Reports, the City should consider including detailed information on volumes in the "explanation of final spill destination" and "explanation of spill response activities" boxes.

6. Repeat SSO Locations / Pump Stations. Section D of Order No. 2006-0003-DWQ requires Alhambra to take all steps feasible to eliminate SSOs. A review of the SSO data submitted by Alhambra following the inspection reveals three locations where there have been repeat spills over the past five years: Westmont Street (Sewer Plant #4), Balzac Street (Sewer Plant #3), and Sarazen Drive (Sewer Plant #7). These three pump station locations account for 7 of the 18 SSOs.

Spills from pump stations are generally preventable when the stations are well maintained. According to the field reports provided by the City, three spills appear to have been caused by power outages, and three were caused by pump station electrical failures; one was reported caused by rags. All of the City's pump stations are old; the newest of them is 60 years old. The City's master plan indicates that 5 of the 7 pump stations in the City (Story Park, Sewer Plants #2, 3, 4, and 7) are at or near the end of the useful life. One pump station, Sewer Plant #3, would seem difficult to maintain because it must be accessed through a tunnel due to its location underneath the traffic lanes of I-10. The master plan also recommends replacing the force mains at Sewer Plants #5 and 8.

Recommendation: To comply with Order No. 2006-0003-DWQ, the City should ensure that all proper operation and maintenance procedures are routinely performed at each pump station. All alarm and electrical systems should be tested for proper function, and all routine maintenance should be performed at intervals recommended by the manufacturer. All emergency generators should be properly exercised and maintained. The City should schedule its pump stations and force mains for immediate upgrades to assure reliability, as recommended by its Master Plan.

7. Fats, Oils, and Grease ("FOG") Program. The City is subject to the State Water Resources Control Board's (SWRCB) Statewide General WDR for Wastewater Collection Agencies Order No. 2006-0003-DWQ requiring a program designed to eliminate FOG from being discharged into the sewage collection system pipes where FOG is a problem. According to the City's Sewer Master Plan, the City did not have a FOG control program, but was expected that it would be developed by the State WDR deadline of November 2, 2008. Although four of 18 SSOs were reported to have been caused by FOG between 2007 and 2011, the City stated during the inspection that FOG was not a big problem. The City submitted a map of FOG and root locations following the December 2011 inspection, showing that a number of sewer lines in Alhambra are affected by FOG deposition. Figures 1, 2, and 3 in Attachment 1 show a significant deposition of FOG in Sewer Plant #7.

City Ordinance 02M9-4541 was passed and adopted by the City Council on April 27, 2009 and City Ordinance 02M9-4542 was passed and adopted by the City Council on May 11, 2009. These ordinances prohibit certain substances, including any oil or FOG, from being deposited into the City's sewage collection system, and allows for inspection of interceptors. City staff described to the inspection team its efforts to reduce FOG accumulation from its pump stations as submerging time-release enzyme blocks and regularly pouring "d-limonene" into the wet well to dissolve the floating grease. D-limonene is a polar organic solvent that floats on the surface, and is barely soluble in water; it is used commercially as a degreaser. Because the ordinance prohibits direct deposition of "any oil" into the public sewer system, it would appear that pouring d-limonene into the public sewer at the pump station wet wells may violate the City's own ordinance.

According to the City, the requirement to install a Grease Removal Device ("GRD") is only triggered when new Food Service Establishments ("FSEs") or when existing FSEs undergo renovation and are required to go through the building and planning process. A change in FSE ownership does not trigger the requirement to install a GRD. Inspectors were told during the interview that although the City has the authority to enforce its sewer ordinance now, it has thus far provided only verbal warnings. According to the

City, a new inspector was hired and annual inspections of all 233 FSEs were expected to commence in January 2012.

Recommendation: To prevent FOG from entering the sewage collection system and eliminate spills due to FOG, the City should begin as soon as possible to aggressively implement its FOG control program.

8. Flow Measurements and Capacity. Part D.10 of the State Water Resources Control Board Order No. 2006-0003-DWQ states that an Enrollee must provide adequate capacity to convey base flows and peak flows, including flows related to wet weather events.

According to the 2009 Master Plan, the sewer collection system capacity analysis was based on a hydraulic model based on assumed sewage generation and current zoning classifications. Peak wet weather flow was calculated based on average dry weather flows. It is not clearly stated in the Master Plan whether any actual flow monitoring was done during wet weather to produce the capacity analysis. The capacity analysis appears to be based on assumptions that may or may not accurately predict system capacity.

Recommendation: The City should invest in a flow monitoring study to verify the conclusions of the modeling study.

9. Maintenance Management System and Record Keeping. Section D.13.iv of the State's Order No. 2006-0003-DWQ requires the City's SSMP include provisions for documenting routine and hot spot maintenance and work orders. In addition, Section B of the Monitoring and Reporting requirements require records of SSOs, and work orders, work completed, and other maintenance records be maintained for five years. The inspection team was told by the City staff that Alhambra has no computerized sewer maintenance management system; no system to generate work orders for scheduling routine maintenance, track planned or completed maintenance, to facilitate or adjust the maintenance frequency, or to generate work orders following SSOs. The City currently uses the "Springbook" billing software application with a service request module to track its work orders. The work orders must be manually entered and closed, and related information is not able to be integrated into the system. Condition assessment information cannot be stored with the work orders or used by crews in the field when performing maintenance work.

Recommendation: The City should adopt a maintenance management system ("MMS") that would more efficiently allow the City to integrate, map, track, and record maintenance, SSOs, inspection history, and condition assessment of its pipes. An MMS would provide a system for maintaining the SSO documentation required by the State's Order No. 2006-0003-DWQ.

10. Capital Improvement. Section D.8. of Order No. 2006-0003-DWQ requires an enrollee to properly operate and maintain its sewer collection system. According to the inspection questionnaire filled out by the City, only 6% of the sewer pipe in the City is under 50 years old. Vitreous Clay Pipe ("VCP") sewer pipe is often considered to have an average functional life of 70 years. The City's 2009 Rehabilitation Plan rated defects in 66 pipe reaches as "severe" and 117 as "major" in 2009. According to the Plan, the estimated cost to upgrade sewers with "severe" and "major" condition priorities is \$23,368,000. According to the inspection form, the City's capital improvement fund is \$500,000 for a two year period. City staff stated during the inspection that it does about 15 repairs per year to address mainly capacity issues, breaks, and cracks. Staff told inspectors that there remain approximately 6 or 7 "severe" defects to repair. Including recommended upgrades to pump stations, force mains, and manholes, the total is estimated at \$46,043,000.

Regarding the San Pasqual SSO, which occurred at the intersection of Mission Road at San Pasqual Avenue, inspectors requested that Alhambra provide the 2007 CCTV footage of this section of pipe along Mission Road. The 2007 video inspection of pipe segment B6095 was abandoned at 127 feet. This was due to high flow in the pipe, according to a letter dated October 27, 2011 explaining the circumstances of the SSO to Mr. Samuel Unger, Executive Officer of the Regional Board. However, the 2007 CCTV inspection of segment B6105 of the pipe on San Pasqual to Mission Road noted a hole in the pipe with visible soil. The 2009 Sewer System Rehabilitation Plan rated the pipe segment, B6105 on San Pasqual "major" and recommended replacement of the pipe from 269 feet to segment B6095 at the intersection with Mission Road. The City's Rehabilitation Plan recommends in Section 3.7 that CCTV inspection should occur annually in locations of "severe" ratings, and every three years where rated "major". CCTV re-inspection of segment B6095 had not been completed within 3 years of the 2007 inspection, nor had the rehabilitation been scheduled and completed as recommended by the City's Rehabilitation Plan. Had the recommendations of the Rehabilitation Plan not been ignored by the City, it is likely that this major SSO would have been avoided.

Recommendation: The City should aggressively implement the recommendations of its Rehabilitation Plan, especially those regarding sewer system upgrades and CCTV inspection and condition assessment.

11. Sewer Rates. Section D.9. of Order No. 2006-0003-DWQ requires enrollees to allocate adequate resources for operation, maintenance, and repair of its sewage collection system. The City reported that it collected \$4,091,051 in sewer fees from its ratepayers during the past year while expenses were \$1,415,000, leaving a surplus of \$2,676,051. If this surplus is applied to the list of recommended capital improvement projects, the projects would require 20 years to complete. Inspectors were told that the City is in the

final year of a 5-year increase. Wastewater collection fees from the City of Alhambra are currently \$8.72 per month. The cost of wastewater treatment is paid directly to Los Angeles County Sanitary District #16 as a separate charge on property tax bills. The total current sewer fee is significantly below that of other Southern California cities.

Recommendation: In order to consistently meet sewer system expenses and fund needed rehabilitation work, the City should consider continuing its increased sewer rates to fund recommended capital improvements.

Photographs Taken During the Inspection

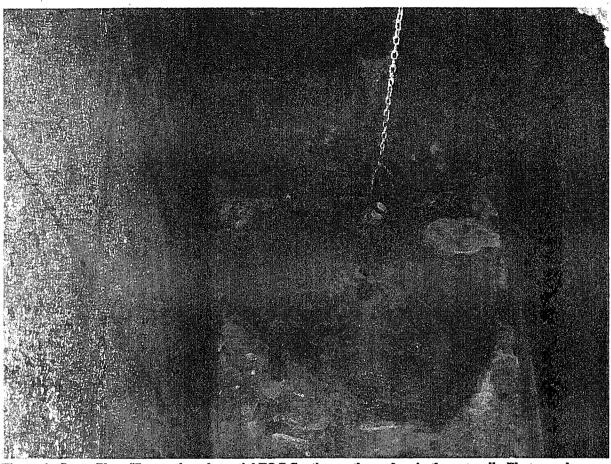


Figure 1: Sewer Plant #7, note the substantial FOG floating on the surface in the wet well. Photograph was taken on December 20, 2011 by Chris Lopez, inspector for the State of California, Los Angeles Regional Water Board.



Figure 2: Sewer Plant #7, note the substantial FOG floating on the surface in the wet well. Photograph was taken on December 20, 2011 by Chris Lopez, inspector for the State of California, Los Angeles Regional Water Board.

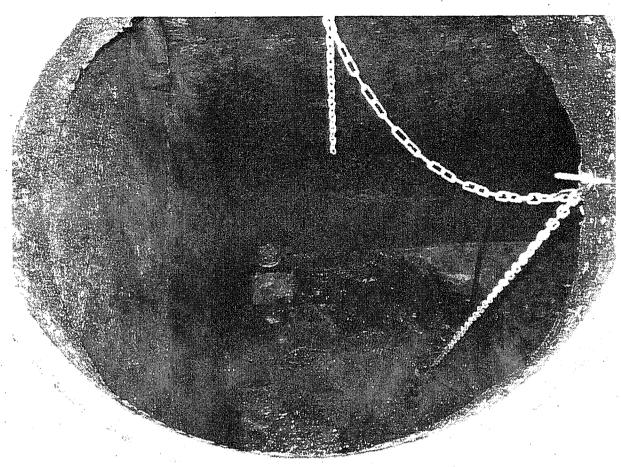


Figure 3: Sewer Plant #7, note the substantial FOG floating on the surface in the wet well. Photograph was taken on December 20, 2011 by Chris Lopez, inspector for the State of California, Los Angeles Regional Water Board.

SEWAGE COLLECTION SYSTEM INSPECTION FORM (EPA Reg 9; form revised September 23, 2010)

GENERAL INFORMATION

Inspection Date: 12/20/11

Utility Name: City of Alhambra
Address: 111 South First Street

Contact Person: Claudine Meeker, Deputy Director of Utilities
Phone: (626) 570-5080 Cell: (626) 945-6372 Fax: (626) 282-5833

Email: cmeeker@cityofalhambra.org

Inspectors Names

Agency/Contractor

JoAnn Cola	US EPA
Julie Berrey	State of California Water Board
Andrew Choi	Los Angeles Regional Water Board
Chris Lopez	Los Angeles Regional Water Board
Hugh Marley	Los Angeles Regional Water Board
Jose Morales	Los Angeles Regional Water Board

Utility personnel who accompanied inspectors

Name Title

Martin Ray	Deputy Director of Utilities
Dennis Ahlen	General Manager-Utilities
Ron Capotosto	Production Supervisor
Claudine Meeker	Deputy Director of Utilities

SYSTEM OVERVIEW

Population: 83,089 (2010 Census)

Service Area (Sqr. Miles): 7.5 sq. mi.

Service Area Description:

	Residential	Commercial	Industrial	Total
Number of	-			
service	15, 448	1,654	267	17,369
connections	·			·

Combined Sewers (% of system): 0

Name and NPDES permit number for WWTP(s) owned or operated by the collection system utility: N/A

Name and NPDES permit number for WWTP(s) that receive flow from the collection system utility: Los Angeles County Sanitation District #16.

Names of upstream collection systems sending flow to the collection system utility: <u>City of</u> Monterey Park.

Names of downstream collection systems receiving flow from the collection system utility: Los Angeles County Sanitation District #16

Do any interagency agreements exist with upstream collection systems? (Y/N) Yes

Does the utility maintain the legal authority to limit flow from upstream satellite collection systems? (Y/N) No

SYSTEM INVENTORY (LIST ONLY ASSETS OWNED BY UTILITY)

Miles of gravity main	Miles of force main	Miles of Laterals	Number of maintenance access structures	Number of pump stations	Number of siphons
128	1.51	0	2,800	7	3

Utility responsibility for laterals (none, whole, lower) None.

Size Distribution of Collection System

Diameter in inches	Gravity Sewer (miles)	Force Mains (miles)
6 inches or less	1.33	.16
8 inches	111.05	1.01
9 - 18 inches	10.32	.33
19 - 36 inches	5.78	0
> 36 inches	0	0

Age Distribution of Collection System

Age	Sewer Mains, miles	# of Pump Stations
0 - 25 years	0	0
26 - 50 years	6.4	0
51 - 75 years	35.84	2
> 76 years	85.76	3

SYSTEM FLOW CHARACTERISTICS

Collection System		•
Average Daily Dry Weather Flow (MGD)	Peak Daily Wet Weather Flow (MGD)	Peak Instantaneous Wet Weather Flow (MGD)
5,000,000	6,000,000	7,000,000

Location of flow monitor(s) from which above information obtained: Manhole IDs – C3029; C4110; C4275; D5013; C4029; C6104; C4330

Period over which flow was monitored: Sites 1, 2, 3, 4, 6, and 7 were monitored January 30, 2005 to March 20, 2005; Site 5 was re-monitored August 12, 2005 to August 19, 2005.

Agency conducting the flow monitoring: ADS Environmental Services

If no flow monitors, describe method for estimating flows:

Wastewater Treatment Plant		
Average Daily Dry Weather Flow (MGD)	Peak Daily Wet Weather Flow (MGD)	Peak Instantaneous Wet Weather Flow (MGD)
Not Applicable		

Upstream Satellite Name	Avg. Dry	Weather Flow	Peak Flow	Flow based on		
	(MGD)	% of total flow	(MGD)	meter or		
				estimate?		
City of Monterey Park	.043	< 1%	20-50 gpm	estimate		
			1			

Constructed Overflow Points					
Overflow	Location	Number of Discharges/Year			
Point					
None					
	_				

REGULATORY BACKGROUND

Does the system operate under the provisions of an NPDES permit (either their own or under provisions of another agencies permit)? (Y/N) <u>Yes</u>

Permit holder County of Los Angeles Department of Public Works (Principal Permittee)
Permit # CAS004001

List provision of the permit that apply (If permit holder is other than the agency being inspected)

Part 4 Special Provisions, Section F – Public Agency Activities, Subsection 1 Sewage System

Maintenance, Overflow, and Spill Prevention

Does the system operate under a state permit? (Y/N) <u>Yes</u>
Are there any spill reporting requirements? (Y/N) <u>Yes</u>
Which agency (or agencies) promulgates the spill reporting requirements? <u>State Water Resources</u>
Control Board.

Outline the spill reporting requirements (summarize spill reporting requirement for each applicable statute, regulation and permit):

Requirements outlined in City Spill Response Plan.

SPILLS

	- Charles and Address	Sar	nitary Sewer	r Overflov	vs From ar	nd Caused	by Utility	J	
Note:	Spill Rate	= number	of SSOs/10	00 miles o	f sewer pi	pe/year		<u></u>	
Year		Mains			Laterals		Totals		
		es of Mair	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	(Miles	of Lateral	s0)		(Total Mile	s 128)
	#SSOs	(1)Spill	Gross	#SSOs	(2)Spill	Gross	Total	(3)Total	Total
		Rate	Spil1		Rate	Spill	SSOs	Spill	Gross
		(see	Volume		(see	Volume		Rate	Spill
		below)			below)		į	(see	Volume
	1							below)	
2006	12	9.3	72,410				12	9.3	72,410
2007	7	5.4	3,589				7	5.4	3,589
2008	3	2.3	56,130				3	2.3	56,130
2009	2	1.5	1,100			· · · · · · · · · · · · · · · · · · ·	2	1.5	1,100
2010	2	1.5	2,950				2	1.5	2,950
2011	4	3.1	144,800				4	3.1	144,800
Total	30	23.1	278,029				30	23.1	278,029

- (1)Spill Rate = [(#SSOs in main pipe) X 100]/Miles of Main Pipe in System
- (2)Spill Rate = [(#SSOs in laterals) X 100]/Miles of Lateral in System
- (3)Total Spill Rate = [(#SSOs in Main + #SSOs in Laterals)X100]/[Miles of Main + Miles of Laterals]

Spill Cause

Year (as				Bloo	ckage				,	avity ipe	1	orce ain		ımp ıtion	Cap	acity
listed in Table	Gr	ease	Ro	oots	De	bris	Mu	ltiple	4	reak	i	eak				
above)	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
2006	4	33.3	2	16.6	2	16.6	3	25			 		1	8.3		1
2007			4	57						 	† — —	-	3	43	·	
2008							1	33.3					2	66.6		
2009			1.	50	1	50					†	<u> </u>	-			
2010					1	50	 			 	1	50				-
2011	2	50				 			ī	25		 	1	25	<u> </u>	
Total	6	83.3	7	123.6	4	116.6	4.	58.3	1	25	1	50	7	142.9		<u> </u>

Please attach a copy of facility spill records for each of the past five years. The information for each spill should include, <u>at a minimum</u>, the following: Date of spill, time spill reported, location of spill (address and city), whether the spill occurred in a private lateral, whether it reached a surface water, total volume of the spill, volume of spill recovered, volume of spill that reached a surface water, the appearance point of the spill, final spill destination, spill cause and explanation, whether a health warning was posted.

BUILDING BACKUPS (list only backups caused by problems in sewer mains)						
Year	Number of backups	Cost of Settled Claims				
2011	1	\$0				
	·					
·	1					
-						
TOTAL	1	\$0				

STAFFING

Contractor Services	Contractor Name(s) (NA if contractors not used)	Cost (\$/year)
Sewer Cleaning	N/A	
Chemical Root Control	Duke's Root Control	\$10,000.00
Spot Repairs	Various	\$200,000.00
CCTV	Empire	\$10,000.00
Spill Response	Various	Varies
Other:		

EQUIPMENT

List Major Equipment Owned by the Utility:

Equipment	Number	Number in Service
Combination Trucks		
(hydroflush and vactor)	1	1
Hydroflusher	2	2
Mechanical Rodder	0	0
CCTV Truck	0	On order
Utility Truck	4	4
Portable Pumps	. 4	4
Portable Generator	8	8
,		

FINANCIAL

Does the collection system operate from an enterprise fund? Yes/No: Yes

REVENUES Revenue Source	Annual Revenue (\$/year)
Revenue Source	
User Fees	\$1,316,333.00
Connection Fees	\$2,774,718.00
Grants	N/A
Bonds	N/A
SRF Loans	N/A
TOTAL	\$4,091,051.00

EXPENSES			
Expense	Annual Cost (\$/year)	Cost / Mile of Pipe (Total Pipe Mileage: 128)	
Maintenance	\$400,000.00	\$2,125.00	
Operations (electric, fuel, etc.)	0	0.	
Salaries and Benefits	\$635,000.00	\$4,960.00	
Capital Improvements	\$380,000.00	\$2,968.00	
Debt payments	0	0	
TOTAL	\$1,415,000.00	\$10,053.00	

Average Monthly Household User Fee for

Sewage Collection: \$8.72

Wastewater Treatment: \$0 (collected via Property Tax bills payable to County Sanitation District

Total Wastewater Fees: \$8.72

Sewer Fee Rate Basis (i.e. water consumption, flat rate, etc.): <u>Consumption per hundred cubic foot usage.</u>

Last Fee Increase (Date): July 2011

Planned Fee Increases: <u>July 2011</u> was the last year of an adopted Five-Year Rate Increase <u>program.</u>

Capital Improvement Fund: \$500,000.00 for 2 years

SPILL RESPONSE, NOTIFICATION AND REPORTING

Does the Utility Have a Written Spill Response Plan? Yes Is the Plan Carried by Maintenance/Spill Response Crews? Yes

Indicate Elements Included In the Spill		
Element	Y/N	Comment
Identification of Responsible Staff	Y	Comment
DISPATCH	<i>VIIIIIIIII</i>	
System for Becoming Aware of Spills	Y	
System for Receiving Public Calls	Y	
Dispatch Procedures – Normal Hours	Y	
Dispatch Procedures – After Hours	Y	
Coordination with First Responders		
(police, fire department)	Y	
Response Time Goal	Y	
SPILL CONTROL/MITIGATION		
Spill Response Activity Sequence	Y	
Spill Site Security	Y	
Procedures for Stopping Spills	Y	
Spill Containment	Y	
Protection of Storm Drains	Y	
Cleanup/Mitigation	Y	
DOCUMENTATION		
Spill Volume Estimation Method		Flow estimation pictures
(list method in comment field)		
Determination of Spill Start Time	Y	
Spill Sampling	N/A	Only if required by County or State
Receiving Water Sampling	N/A	See above
Photographing Spill Site	Y	Only if unusual circumstances dictate
Field Notes Form	Y	
Spill Report Form	Y	
NOTIFICATION		
Notification of Affected Public		
(schools, recreational users, etc.)	Y	·
Posting Warning Signs	N	
Sanitation Information re: building		
backups	Y	
REPORTING		
Reporting Procedures	Y	
Spill Report Forms	Y	
Persons Responsible for Filing Reports	Y	

Are all spills reported regardless of volume? Yes

Are Contractors Required to Follow Spill Response Procedures? Yes

Average Spill Response Time (normal work hours): 30 minutes or less

Average Spill Response Time (after hours/holidays): 1 hour

Does the Utility CCTV Pipes Following Spill? No

Are Cleaning Schedules Adjusted in Response to Spills? Yes

SEWER CLEANING AND MAINTENANCE

Are Maps on GIS Data	Detailed Sewer System abase? Yes	iviaps? <u>i es</u>	
	Maintenance Crews?	<u>Yes</u>	
Maintenance Manager Written X Compt	nent System is (check valuerized Both _	whichever is applicable): Other (describe	e)
ANNUAL SEWER C	LEANING – Include h	ydroflushing, mechanica	
Pipe Cleaning	excluding repeats		Including Repeats
(miles/year)		(mi	les/year)
128	100%		128
pipe segment more that System Cleaning Freq	in once during that visit uency (years to clean er	ntire system): <u>one year</u>	sit if they clean the same
Types of problems sub	pject to hot spot cleaning	g? Roots and grease.	
HOT SPOT CLEAN	ING SCHEDULE		
Cleaning Frequency	Number of	Pipe length excluding	Pipe length including
	Locations	repeats (miles)	repeats (miles)
1/month			
6/year			
4/year			
2/year	2	4 1 mile	
1/year	3	< 1 mile	The second secon
Chemical treatment from	to chemical root treatmequency: Annually	nents (miles/year):1.1 (diquat dibromide EPA F	
SPOT REPAIRS	·		
		(#/year);5 (mil	es/year)
Spot repair budget (\$/			2040 44
Spot repair expenditur	es last year: \$150,000	0.00 ; year: <u>FY 2</u>	2010-11
ODORS Annual number of con Odor hot spot location Odor treatment faciliti	s: Sewer Plant #2	···	
EASEMENT PIPE CI	EANING		
	ent pipes (miles):3/4		
	cleaning (miles/year):		- -
Do maintenance work	ers have access to all ea	sements? Yes	

FATS, OILS AND GREASE (FOG) CONTROL

Does the Utility have a FOG source control ordinance? <u>Existing Title XVI of Municipal Code refers to sewers generally.</u>

Ordinance Citation: Chapter 16.08.100:General Provisions; 16.20: Interceptors; 16.24.010: Discharges

Agency responsible for implementing the FOG control program: City of Alhambra

Number of Food Service Establishments (FSEs) in service area: 233 Number of FSEs subject to FOG ordinance: Projected to be all 233.

Indicate Elements Included In the E	ood Service	e Establishment FOG Source Control
Program	OOM DCI VIC	c Establishment POG Source Control
Element	Y/N	Comment
FSE Permits	N	Permits will not be required in new ord.
FSE inspections	Y	Inspection Program begins Jan. 2012
FSE enforcement		TBD
Oil & grease discharge concentration limit		TBD
Grease removal device (GRD)		
requirements:		
traps	Y	
interceptors	Y	
Automatic cleaning traps	N	
FSEs subject to GRD installation:		
all FSEs (new and existing)	N	
new FSEs	Y	
remodeled FSEs	Y	
for cause at existing FSEs	Y	
GRD maintenance requirements:		
Cleaning frequency	1/3mos.	Will be included in new ordinance
25% rule (grease and solids		Will be included in new ordinance
accumulation)		
Kitchen BMP Requirements		
(list required BMPs below)		
"Dry Cleanup Method"	Y	
Put FOG into sealed containers for		
proper disposal	Y	, , , , , , , , , , , , , , , , , , ,
Clean grease traps and interceptors		
frequently	Y	
Allowance for chemical additives?	N	TBD in new ordinance
Allowance for biological additives?	N	See above
FOG Disposal Requirements	Y	
FOG Disposal Manifest System		Will be included in new ordinance

Number of FOG Program staff
Inspectors 2
Permit writers
Other1

FSE Inspection frequency: annually
Annual number of FSE inspections: TBD
Does Utility use CCTV to identify FOG sources? Yes

Currently, inspections are conducted in coordination with NPDES inspections of all restaurants, industrial, and commercial facilities. Beginning January 2012, inspections of FSEs will be conducted at least annually.

Does sewer maintenance staff coordinate with FOG source control program staff? Yes Cleaning targeted to FOG hot spots? Yes

Maintenance crew referrals to FOG program? Yes

Pipe repairs at FOG hot spots? Yes

Describe program for public outreach and education related to residential FOG sources:

Information is distributed to the public at all City events; pamphlets are available at City

Hall and other City facilities; information is included on the City website; articles are

published in the local newspaper several times a year.

PIPE INSPECTION AND CONDITION ASSESSMENT

Gravity Main Inspection

Describe Pipe Inspection Methods:

Miles of Pipe Ins	pected in the Last	10 Years and Planned	Inspection Next 10	Years
Date Range	Inspection	Miles of Pipe	Useable Condition Assessment	
	Method	without repeats	Miles of Pipe	% of System
			(without repeats)	(System miles:
				128)
2001 to present	CCTV	136.25		,
19 to present	Other			
Present to 2021	CCTV	320		100%
Present to 20	Other			

Describe Planned Pipe Inspection: CCTV pipe one quarter of the City per year.

Summary of Condition Assessment Findings: The problems identified most often were cracks (1,388 reaches, 52% of total), fine roots (1,208 reaches, 45% of total), and vermin (1,510 reaches, 56% of total). More detailed assessment can be found in the City Rehabilitation Plan in Section 3, Figures 2, 3, 4, and 5.

Force Mains

Describe Force Main Inspection Methods: CCTV

Describe Program for Inspecting Air Relief Valves: Visually inspected daily and maintained every five years.

Private Laterals Does the Utility Inspect Private Laterals? No	
Number of Private Laterals Inspected 19 to Present:	
Summary of Inspection Findings:	
Number of Private Laterals Planned for Inspection Present to 20:N/A	

CAPACITY ASSURANCE

List Locations and Dates of Repeat Capacity Spills: None

List Locations of Known Capacity Bottlenecks: Outlined in Sewer Master Plan and Rehab Plan.

Dry Weather:

Wet Weather:

Describe I&I Assessments Completed by the Utility (dates, area covered, findings, etc.):

Flow Meters (number, locations): None

Describe Flow Model Used by the Utility:

Inflow

Does the Utility Prohibit Storm Water Connections to the Sanitary Sewer (roof drains, sump pumps, etc.)? Yes.

Describe Program for Enforcing Ban on Illicit Connections:

Describe Program for Locating Illicit Connections (smoke testing, etc.):

Locations Subject to Street Flooding: Sixth Street underpass, n/o Hellman Avenue.

Has the Utility Sealed Manholes in Locations Subject to Street Flooding: Yes.

I&I Control

Describe I&I Control Projects (miles of pipe rehabilitated or replaced for I&I Control)

Recently Completed Projects: None.

Planned Projects:

Describe Capacity Control Measures (relief sewers, storage, WWTP expansion, etc.)
Recently Completed Projects: None.

Planned Projects:

INFRASTRUCTURE RENEWAL AND CAPITAL IMPROVEMENTS

Pipe Rehabilitation and Replacement Methods Used: Slip-liningof existing pipe will be done for future projects; replacement of existing pipe.

Miles of Pipe Rehabilitated	or Replaced: Last 10 Years a	nd Planned Next 10 Years
Date Range	Miles of Pipe	% of System
		(System miles: 128)
19 to present		
Present to 2021	As outlined in Rehab Plan	

Describe Capacity Improvement Program: Prioritize work for lift station with the greatest wet well structural deficiencies; deficiencies in the firm pumping capacity; and wet well capacities. Prioritize work for gravity sewer lines with existing dry weather capacity deficiencies; diversion or replacement facilities that would alleviate capacity deficiencies that may occur during wet weather events; and lines that have shown calculated capacity deficiencies but are currently adequate.

List Major Planned Improvements: Rehabilitation of Sewer Plants # 3, 2, 7, 4; relocation of Sewer Plant #3; Upgrade electrical and control system, replace force main at Plant #8; replace force main at Plant #5

Describe Master Plan: The objective of the Master Plan is to evaluate the City's sewer collection system to provide a framework for undertaking the construction of new and replacement facilities for the service area in an efficient and cost effective manner. As a planning document, it is general in nature and is predicated upon the best information available at the time.

The Master Plan Scope of Work includes the following sections:

- Research and Data Collection
- Sanitary Sewer Database and GIS
- Sewer System Model
- Flow Monitoring and Unit Flow Factors
- Development of Capital Improvement Program
- Master Plan Report
- Sewer Standard Plans
- Regulations
- Financial Plan for Improvement Program
- Future Regulations CMOM
- Statewide General Waste Discharge Requirements SSMP
- Government Accounting Standards Board Statement 34

The Master Plan Sections include:

- Executive Summary
- Introduction
- Study Area
- Criteria
- Existing Sewer System
 Lift Stations

- System Analysis
 Capital Improvement Program

PUMP STATIONS (Please complete one sheet for <u>EACH</u> pump station)

Name and Location of Pump Station: STORY PARK: 210 N. Chapel Avenue

Pump #/Name	Dry or Submersible	Capacity	Constant or Variable	In Service?
Pump #1	Submersible	100 gpm	Constant	Yes
Pump #2	Submersible	100 gpm	Constant	Yes
B. Holdin C. Does s service Peak I Peak V D. Dry we E. Wet we F. Numbe years _ G. Total q H. Is dry v I. How of	ge flow: <u>.5 gpm</u> g Time: <u>24-48 hour</u> tation have sufficient during: Dry Weather Flow: Yet Weather Flow: Seather capacity limit eather capacity limit of failures resulting uantity of overflow well protected from iten is pump station	Yes X No Yes X No Yes X No tations? Y/N (if yes, tations? Y/N (if	describe) No No Ses or backup, in the l	
J. Back u On-site	p power sources a			
generators	Portable Generators	Back-Up Line from same	Back-up Line from different	Other (describe)
		grid? N/A	grid? N/A	()
/esNo_X	Yes X No	YesNo	YesNo	
K. Station	Alarms: High Wet Well	Power Loss	Unauthorized Entry.	Other (Describe)
				ı
Yes_XNo	Yes_X_No_	Yes_XNo	YesNo_X_	

$\begin{array}{c} \textbf{PUMP STATIONS} \\ \textbf{(Please complete one sheet for } \underline{\textbf{EACH}} \ \textbf{pump station)} \end{array}$

Name and Location of Pump Station: Sewer Plant No. 2 - 2239 S. Meridian Ave.

	Dry or Submersible	Capacity	Constant or Variable	In Service?
ump #1	Wet/Dry Well	650 gpm	Constant	Yes
ump #2	Wet/Dry Well	650 gpm	Constant	Yes
B. Holdin C. Does si service Peak D Peak V D. Dry we E. Wet we peak wet v F. Numbe years G. Total of H. Is dry v	ge flow: 430 gpm g Time: 30 minutes tation have sufficient during: Ory Weather Flow: Vet Weather Flow: eather capacity limit eather capacity limit veather flow of 1,31 or of failures resulting unantity of overflow	Yes X No Yes No Yes No Yes No Yes No Yes Y/N (if yes tations? Y/N (if yes, 11 gpm. No yerflows/bypass: Gallons or wet well overflow?	, describe) No describe) Yes. Capa ss or backup, in the	city is lower than
	ip power sources a		;•	
On-site generators	Portable Generators	Back-Up Line from same grid? N/A	Back-up Line from different grid? N/A	Other (describe)
YesNoX_	Yes_X_No_	YesNo	YesNo	_
	generators on-site, d	lescribe testing and r	naintenance procedu	res:
K. Station Low Wet Well	Alarms: High Wet Well	Power Loss	Unauthorized Entry	Other (Describe)
K. Station	And the second second second second second	Power Loss		

PUMP STATIONS (Please complete one sheet for <u>EACH</u> pump station)

Name and Location of Pump Station: Sewer Plant No. 3 -Across 3220 Balzac St.

ump #/Name	Dry or Submersible	Capacity	Constant or Variable	In Service?
ump #1 West	Wet /Dry Well	250 gpm	Constant	Yes
ump #2 East	Wet/Dry Well	250 gpm	Constant	Yes
B. Holdin C. Does s service Peak D Peak V D. Dry we E. Wet we F. Numbe years G. Total q H. Is dry v	ge flow: 135 gpm g Time: 30 minutes tation have sufficient during: by Weather Flow: Yet Weather Flow: Yeather capacity limit eather capacity limit of failures resulting uantity of overflow	Yes X No attions? Y/N (if yes, attions? Y/N (if yes, or in overflows/bypass) Wet well overflow?	describe) No	
J. Back u	p power sources a			
n-site enerators	Portable Generators	Back-Up Line from same grid? N/A	Back-up Line from different grid? N/A	Other (describe)
es_X_No	Yes_X_No_	YesNo	YesNo	_
K. Station	Alarms: High Wet Well	Power Loss	Unauthorized Entry	Other (Describe)
es_XNo	Yes_X_No	Yes_XNo	YesNo_X_	
		e for alarms? Yeson-call staff via SCA	DA	

PUMP STATIONS

(Please complete one sheet for <u>EACH</u> pump station) Name and Location of Pump Station: Sewer Plant No. 4-1700 Westmont Drive

Pump #/Name	Dry or Submersible	Capacity	Constant or Variable	In Service?
Pump #1	Wet/Dry Well	750 gpm	Constant	Yes
Pump #2°	Wet/Dry Well	750 gpm	Constant	Yes
B. Holding C. Does a service Peak I Peak I Peak I D. Dry was E. Wet was than the expense G. Total of H. Is dry	ge flow: 269 gpm ng Time: 21 minutes station have sufficient e during: Dry Weather Flow: Wet Weather Flow: eather capacity limit eather capacity limit existing and ultimate er of failures resulting quantity of overflow well protected from	Ant pumping capacing yes X No Yes X No tations? Y/N (if yet ations? Y/N (if yet ations? Y/N (if yet ations) yet weather ag in overflows/by Y/bypass: Gallons wet well overflow	ves, describe) No_ es, describe) Yes: capa flow of 851 and 906 g vpass or backup, in the or MG v? Yes NoX	ncity is lower
	ften is pump station			
On-site generators	Portable Generators	Back-Up Line from same grid? N/A	Back-up Line from different grid? N/A	Other (describe)
YesNoX	Yes_X_No_	YesNo_	YesNo	
K. Station		Power Loss	d maintenance procedu Unauthorized Entry	Other (Describe)
Yes_X_No	Yes_X_No	Yes_XNo_	Yes_No_X	(=

$\begin{array}{c} \textbf{PUMP STATIONS} \\ \textbf{(Please complete one sheet for } \ \underline{\textbf{EACH}} \ \textbf{pump station)} \end{array}$

Name and Location of Pump Station: Sewer Plant No. 5 – 913 Clay Court

Pump #/Name	Dry or Submersible	Capacity	Constant or Variable	In Service?
Pump #1	Wet/Dry Well	400 gpm	Constant	Yes
Pump #2	Wet/Dry Well	400 gpm	Constant	Yes
B. Holding C. Does so service Peak I Peak V D. Dry we E. Wet we F. Number years G. Total of H. Is dry	e during: Ory Weather Flow: Yet Weather Flow: Yeather capacity limit eather capacity limit of failures resulting Output of overflow well protected from	Yes X No Yes X Yes X Yes X Yes Yes Yes Y No Yes Y N (if yes tations? Y/N (if yes in overflows/by Ybypass: Gallons wet well overflow	Noes, describe)Noes, describe)Noes pass or backup, in the	
	ften is pump station			
On-site	Portable	Back-Up Lin		Other
generators	Generators	from same grid? N/A	from different grid? N/A	(describe)
YesNoX_	Yes X No	YesNo_	Yes No	
If g K. Station Low Wet Well	r3	Power Loss	Unauthorized	Other (Describe)
	Yes X No	Yes X No	Yes No X	
Voc. V No.		1 (ES A INO	1 T C2 TAO V	. 1
	Yes_X_No nere 24 hour coverage rm signal sent to: or	ge for alarms? Yes	XNo	

PUMP STATIONS (Please complete one sheet for <u>EACH</u> pump station)

Name and Location of Pump Station: Sewer Plant No. 7 – 2517 Hathaway Avenue

Pump #/Name	Dry or Submersible	Capacity	Constant or Variable	In Service?
Pump #1	Wet/Dry Well	550 gpm	Constant	Yes
Pump #2	Wet/Dry Well	550 gpm	Constant	Yes

Pump #2	Wet/Dry Well	550 gpm	Constant	Yes
The Charles T. C.				
Pump Station Info				
-	e flow: <u>194 gpm.</u>			
	Time: 21 minutes			• •
		t pumping capacity v	with the largest pum	p out of
service			•	
Peak Di	y Weather Flow: Y	esXNo	Ţ.	
	et Weather Flow: Y		Vo	
		ations? Y/N (if yes,		
		ations? Y/N (if yes, o		
		eak wet weather flo		
		g in overflows/bypas	s or backup, in the I	ast five
years				
-	•	bypass: Gallons or M		•
		vet well overflow? Y	esNo_X	
	en is pump station i			
On-site	power sources an			
I IN CITA	Portable	Back-Up Line	Back-up Line	Other
_		-	_	
generators	Generators	from same grid?	from different	(describe)
_		from same	_	(describe)
generators YesNo_X	Generators Yes_XNo	from same grid? YesNo	from different grid? YesNo	
generators YesNo_X	Generators Yes_XNo	from same grid?	from different grid? YesNo	
generators YesNo_X	Generators Yes_XNo	from same grid? YesNo	from different grid? YesNo	
YesNo_X If ge	Generators Yes_XNo enerators on-site, de	from same grid? YesNo	from different grid? YesNo	
yesNo_X If ge K. Station	Generators Yes_XNo nerators on-site, de	from same grid? Yes No scribe testing and ma	from different grid? YesNoaintenance procedure	
yesNo_X If ge K. Station	Generators Yes_XNo enerators on-site, de	from same grid? YesNo	from different grid? YesNo	
YesNo_X If ge K. Station A Low Wet Well	Generators Yes_XNo nerators on-site, de	from same grid? Yes No scribe testing and ma	from different grid? YesNoaintenance procedure	es:
YesNo_X If ge K. Station A Low Wet Well	Generators Yes_XNo nerators on-site, de	from same grid? Yes No scribe testing and ma	from different grid? YesNoaintenance procedure Unauthorized	es:
YesNo_X If ge K. Station A Low Wet Well	Generators Yes_XNo enerators on-site, de Alarms: High Wet Well	from same grid? YesNo scribe testing and ma	from different grid? YesNoaintenance procedure Unauthorized Entry	es:
YesNo_X If ge K. Station A Low Wet Well Yes_X_No	Generators Yes_XNo enerators on-site, de Alarms: High Wet Well Yes_X_No	from same grid? YesNo scribe testing and ma	from different grid? YesNo_ aintenance procedure Unauthorized Entry YesNo_X	es:
YesNo_X If get	Generators Yes_XNo enerators on-site, de Alarms: High Wet Well Yes_X_No re 24 hour coverage a signal sent to: on-	from same grid? YesNo scribe testing and ma Power Loss Yes_XNo for alarms? Yes_ call staff via SCADA	from different grid? YesNo	Other (Describe)
YesNo_X If get	Generators Yes_XNo enerators on-site, de Alarms: High Wet Well Yes_X_No re 24 hour coverage a signal sent to: on-	from same grid? YesNo scribe testing and ma Power Loss Yes_XNo for alarms? Yes	from different grid? YesNo	Other (Describe)
YesNo_X If ge K. Station A Low Wet Well Yes_X_No a) Is then b) Alarm L. What equemergency seems	Generators Yes_XNo enerators on-site, de Alarms: High Wet Well Yes_X_No re 24 hour coverage a signal sent to: on- uipment is available generators.	from same grid? YesNo scribe testing and ma Power Loss Yes_XNo for alarms? Yes_ call staff via SCADA for emergency resp	from different grid? YesNo	Other (Describe)
YesNo_X	Generators Yes_XNo enerators on-site, de Alarms: High Wet Well Yes_X_No re 24 hour coverage a signal sent to: on- uipment is available generators.	from same grid? YesNo scribe testing and ma Power Loss Yes_XNo for alarms? Yes_call staff via SCADA for emergency resp	from different grid? YesNo	Other (Describe)

$\begin{array}{c} \textbf{PUMP STATIONS} \\ \textbf{(Please complete one sheet for } \underline{\textbf{EACH}} \ \textbf{pump station)} \end{array}$

	_	: Sewer Plant No. 8 –	1200 Block of Mar	istield Pl.
Pump Informati Pump #/Name	On Dry or Submersible	Capacity	Constant or Variable	In Service?
Pump #1	Wet/Dry Well	50 gpm	Constant	Yes
Pump #2	Wet/Dry Well	50 gpm	Constant	Yes
B. Holding C. Does a service Peak I Peak V D. Dry we E. Wet we F. Number years G. Total of H. Is dry v I. How of	ge flow: 2 gpm. In Time: 288 minute Itation have sufficient Italian	Yes X No Yes X No Yes X You it pumping capacity of Yes X You it pumping capacity of Yes Yes X You it pumping the Young in overflows/bypass You wet well overflow? You inspected? Daily	No	
On-site	Portable	Back-Up Line	Back-up Line	Other
generators	Generators	from same grid?	from different grid?	(describe)
YesNo_X	Yes_XNo	YesNo	YesNo	
If g K. Station Low Wet Well		Power Loss	Unauthorized	Other
Yes_X_No	Yes X No	Wee W NT	Entry	(Describe)
a) Is the b) Alar L. What eagenerators.	ere 24 hour coverag m signal sent to: on quipment is availabl	Yes_XNo e for alarms? Yes call staff via SCADA e for emergency resp	4	by-pass pumps;

No_

If yes, ability to operate station remotely? Yes __