

Sewer System Management Plan SELF AUDITS

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State Water Resources Control Board

Office of Enforcement

Bay Area Clean Water Agencies (December 8, 2011)





- 2. How SSMP Self Audits are used by Water Boards
- 3. Response to noncompliance
- 4. Summary of what we've seen so far
- 5. Sample SSMP Audits
- Changes to Audit requirements being considered
- 7. Contact Information



1. Review of Audit Requirements



WHY discharger must do SSMP Self Audit:

- San Francisco Regional Water Board (Region 2) letter issued 5/7/2005 requires it annually for collection systems > 10,000 population in Region 2
- 2. Statewide General WDR issued 5/2/2006 requires it at a minimum every 2 years (post-SSMP adoption) for all systems (not just those in Region 2)



1.a. Region 2 Requirements



Annual SSMP Audit required for systems serving population > 10,000 (since 7/7/2005)



California Regional Water Quality Control Board

San Francisco Bay Region

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Date: July 7, 2005 File No. 1210.57 (MTC)

TO: Sewer System Authorities (attached list)

SUBJECT: New Requirements for Preparing Sewer System Management Plans

This letter is to notify you, as a Sanitary Sewer Collection System Agency, that you are required to prepare a Sewer System Management Plan (SSMP) pursuant to Section 13267 of the California Water Code. The enclosed SSMP Development Guide should be used to develop your plan, which will contain the following ten elements:



Region 2: Accelerated SSMP timelines

Region 2

Required Schedule for SSMP Elements

SSMP Item	Required Completion Date		
 Goals Organization Emergency Response Plan FOG Control Program 	August 31, 2006		
 Legal Authority Measures and Activities Design and Construction Standards 	August 31, 2007		
Capacity Management Monitoring, Measurement, and Program Modifications SSMP Audits	August 31, 2008		

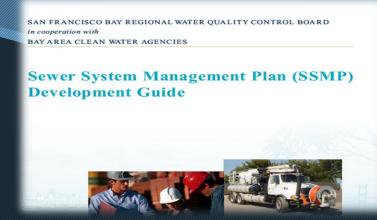
General WDR

	Sewer System Managen	Hent Plan (SSMP) Hinte Schedule					
	Completion Date						
sask and Associated WDR Section	Population > 100,000	Population < 2,500					
SMP Development Plan and Schedule o Specific Section	August 2, 2007	November 2, 2007	February 2, 2008	May 2, 2008			
oal section D 13 (i)	November 2, 2007		May 2, 2008	May 2, 2009			
Organization Section D 13 (ii)	November 2, 2007	November 2, 2007		May 2, 2008			
Legal Authority Section D 13 (iii)							
Operation and Maintenance Program Section D 13 (iv)	November 2, 2008	May 2, 2009	November 2, 2009	February 2, 2010			
Overflow Emergency Response Program Section D 13 (vi)	November 2, 2006						
OG Control Program Section D 13 (iiv)							
Design and Performance Provisions Section D 13 (v)							
System Evaluation and Capacity Assurance Plan Section D 13 (viii)							
Monitoring and Program Modifications Section D 13 (ix)	May 2, 2009	August 2, 2009	May 2, 2010	August 2, 2010			
Program Audits Section D 13 (x)							
Communication Program Section D 13 (xi)							
Is-at posts	VIII.	Year and the second sec	Accessors to the second				



Region 2: Developed SSMP Audit Guidelines

- "SSMP Development Guide" issued in July 2005
- Developed jointly by Region 2 and Bay Area Clean Water Agencies (BACWA)
- Guidelines only; no approved Audit format developed







Region 2 "SSMP Development Guide" contents

10. SSMP Audits

Requirement: Each wastewater collection system agency shall conduct an annual audit of their SSMP which includes any deficiencies and steps to correct them (if applicable), appropriate to the size of the system and the number of overflows, and submit a report of such audit.

This section can be waived for collection systems serving a population of 10,000 or less.



Region 2 "SSMP Development Guide" contents, cont.

Key Point

The audit should cover the most recent calendar year, and be submitted to the Regional Water Board by March 15 of the year following the calendar year for which the analysis applies.



Region 2 "SSMP Development Guide" contents, cont.

Helpful Information

The audit can contain information about successes in implementing the most recent version of the SSMP, and identify revisions that may be needed for a more effective program. Information collected as part of Section 9 above can be used in preparing the audit. Tables and figures or



Region 2 "SSMP Development Guide" contents, cont.

charts can be used to summarize information about these indicators. An explanation of the SSMP development, and accomplishments in improving the sewer system, should be included in the audit, including:

- Progress made on development of SSMP elements, and if the sewer system agency is on schedule in development of the SSMP. Provide justification on the delay if the sewer system agency is behind schedule on development of the SSMP;
- How the sewer system agency implemented SSMP elements in the past year;
- The effectiveness of implementing SSMP elements;
- A description of the additions and improvements made to the sanitary sewer collection system in the past reporting year; and
- A description of the additions and improvements planned for the upcoming reporting year with an estimated schedule for implementation.



Region 2 "SSMP Development Guide" contents, cont.

Additional Tips

Helpful Information

- You may want to include a section up front entitled "System Overview," which describes the size and physical features of the system, to put the rest of the document into context.
- When you prepare the SSMP for the first time, you may want to include a "Sewer Overflow History" to give you a place to start from in evaluating any trends for SSOs in the future.



1.b. General WDR Requirements



General WDR, section D.13(x):

- Essentially mirrors RB2 SSMP Audit requirements
- ✓ Only required min. of every 2 years <u>following initial</u> <u>SSMP adoption date</u>



frequency, location, and volume.

(x) SSMP Program Audits - As part of the SSMP, the Enrollee shall conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. At a minimum, these audits must occur every two years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the

State Water Resources Control Board Order No. 2006-0003-DWQ Statewide General WDR For Wastewater Collection Agencies Page 15 of 20 5/2/06

Enrollee's compliance with the SSMP requirements identified in this subsection (D.13), including identification of any deficiencies in the SSMP and steps to correct them.



General WDR, section D.13(x):

"...audit shall focus on evaluating the effectiveness of the SSMP and the Enrollee's compliance with the SSMP requirements identified in this subsection (D.13), including identification of any deficiencies in the SSMP and steps to correct them."



Minimum Audit Contents per General WDR:

- 1. Narrative of SSMP Effectiveness
 - Documents things working well
 - Documents areas needing improvement
 - Lists strategies to reduce/eliminate SSOs/impacts
- 2. Demonstration of agency's compliance with <u>ALL</u> applicable SSMP requirements
 - Validates status of SSMP compliance with D.13



General WDR, section D.13(x) also says Audit are "appropriate to the size of the system and number of SSOs."

- Larger systems with <u>HIGH</u> number/volume of SSOs:
 - MORE in-depth discussion expected about problems and planned improvements/solutions
- Smaller systems with <u>LOW</u> number/volume SSOs:
 - LESS in-depth discussion expected about problems and planned improvements/solutions



2. How SSIMP Self Audits are used by the Water Boards

2. How SSMP Audits are Used, cont.



- 2. Assists with statewide inspection/enforcement prioritization
- 3. Improves efficiency of Water Board/contractor inspections
- 4. Provides data to justify CIWQS data submitted
- 5. Improves Waterboard knowledge for regulatory purposes



3. Response to Noncompliance

3. Response to Noncompliance, cont.



- ✓ What if discharger found to be in violation of SSMP Self Audit Requirement?
 - Must provide information to address violation
 - May be issued Notice of Violation (NOV)
 - May be issued 13267 Order
 - May be subject to inspection/investigation
 - May be subject to formal enforcement (ACL, etc.)



4. Summary of What We've Seen so Far

4. Summary of What We've Seen, cont.



- ✓ October 2011 Statewide SSMP Audit Request:
 - 42 systems statewide (population 40-50K)
 - 2-year SSMP self Audit requested
 - System Evaluation and Capacity Assurance Plan (SECAP) also requested

4. Summary of What We've Seen, cont.



√ RESULTS: Most systems not complying with D.13(x)

- Many missed evaluation of SSMP effectiveness
- Some missed SSMP compliance evaluation
- Some failed to submit any information or missed deadline



5. Sample SSIMP Audits



1. City of Woodland, CA

- + Measures SSMP effectiveness
- Does not completely evaluate SSMP compliance with section D.13

2. Union Sanitary District (Union City, CA)

- + Measures SSMP effectiveness
- Does not completely evaluate SSMP compliance with D.13

3. City of La Mesa, CA

- + Evaluates SSMP compliance with D.13
- Does not completely measure SSMP effectiveness



- 4. Discharger "1" (uses BACWA SSMP checklist)
 - + Evaluates SSMP element compliance with D.13
 - Does not completely measure SSMP effectiveness
- 5. Discharger "2" (generic audit)
 - Does not measure SSMP effectiveness
 - Does not evaluate SSMP compliance



Example #1:

City of Woodland

- + Measures SSMP effectiveness
- Does not completely evaluate SSMP compliance with section D.13 in General WDR
- Presents improvements needed to SSMP <u>and</u> to system operations to reduce SSOs/impacts

Objectives

This memorandum summarizes the performance of the City of Woodland's Sewer System Management Plan (SSMP) for FY09/10 and 10/11. The purpose of the SSMP is to provide a written framework for the management, operation, and maintenance programs executed by the City, with the ultimate goal of maintaining the level of service of the sewer collection system while minimizing sanitary sewer overflows (SSOs). This review is completed as part of the annual audit process described in sections ix and x of the City's SSMP. This process helps the SSMP document to evolve over time to address identified deficiencies in the management, operation and maintenance of the sewer collection system. This memorandum summarizes the following information:

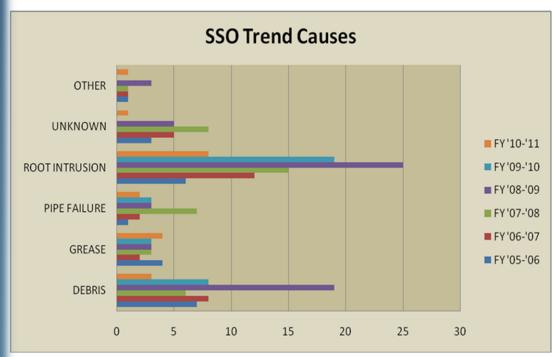
- 1. SSO history, describing the number and nature of SSOs over the past six years.
- Summary of progress of further development of the SSMP elements which have a plan and schedule for full implementation.
- 3. Summary How SSMP elements were implemented over last year
- 4. Effectiveness of the implemented SSMP elements
- 5. What SSMP elements are planned to be implemented next year
- 6. Description of additions and improvements to the collection system over the last year
- Description of the additions and improvements to the collection system planned for the upcoming year
- Review of performance indicators and overall summary of the past two fiscal years with proposed modifications for implementation in fiscal year 11/12 in areas in need of improvement.



Example #1, cont.:

City of Woodland





FY10-11 Lateral SSO's	Main SSO's	SSO volume lateral	SSO volume Main
18	1	1,266	400

FY09-10			
<u>Lateral SSO's</u>	Main SSO's	SSO volume lateral gallons	SSO volume Main
33	-	1,719	-



Example #1, cont.: City of Woodland

Example narrative explaining necessary SSMP improvements

Progress on development of SSMP elements

The SSMP audit has identified some elements that need refinement in the frequency of data collection and type of data collected for both the Utility Maintenance Workers and management staff. Some elements only need to be collected on an annual basis. Some new data needs to be collected to facilitate data collection for the SSMP and analysis of future needs. Furthermore, the communication plan for the SSMP was not completely implemented and progress of finishing implementation will happen in FY11/12. Overall, the SSMP is 90% complete.



Example #1, cont.: City of Woodland

✓ SSMP Performance Indicators used to track necessary collection system operational improvements (CCTV improvements)

	Performance Indicators	Rating					
		Below Goal	Acceptable	Good	Excellent		
1	Feet inspected with CCTV / year	< 100,000	100,000- 170,000	170,000- 200,000	> 200,000		
2	Pipe segments inspected / year	< 400	400-600	600-800	> 800		
3	Footage inspected / 16 work hours	<1500	1500-1750	1750-2000	> 2000		
4	% Passing quality control check	< 90%	90%	95%	98%		

Example #1, cont.: City of Woodland

 SSMP Performance Indicators used to track necessary collection system operational improvements (CCTV improvements)

Periodic l	Perform	ance Trac	king			
Date		Measur	red Va	lue		Performance Assessment Comments
FY 10- 11	Goal	1	2	3	4	2. Staffing vacancies attributed to low number of inspections
	Value	125,976	375	1,665	N/A	

Annual Performance Assessment / Recommendations for Updates

FY 10-11 Ratings:

- 1. Acceptable
- 2. Below Goal
- 3. Acceptable
- 4. Below Goal

Recommendation #1: Filling vacancies will increase the amount of pipe inspected

Recommendation #2: Filling vacancies will increase the amount of pipe inspected

Recommendation #3: Filling vacancies will increase the amount of pipe inspected

Recommendation #4: Anticipate CA&CIP linkage to CCTV module FY 11/12



Example #1, cont.: City of Woodland

✓ SSMP Performance Indicators track collection system operational improvements (SSO reduction performance)

	Performance Indicators	Rating				
		Below Goal	Acceptable	Good	Excellent	
1	% captured of SSO (flat, 1-5%)	<70%	70%-80%	90-90%	90-100%	
2	% captured of SSO (steep, >5%)	<30%	30-50%	50-90%	90-100%	
3	Average time to investigate SSO with CCTV	>1 week	5-7 days	3-5 days	<3 days	
4	% complete on-line reporting for category 3 spills	< 70%	70-80%	80-90%	90-100%	



Example #1, cont.: City of Woodland

SSMP Performance Indicators track collection system operational improvements (SSO reduction performance)

Periodic P	erforma	nce II	acking	3		
Date		Meas	sured V	Value		Performance Assessment Comments
CCTV occurre	3. 24 out of 46 SSO were CCTV but can't capture time					
		CCTV occurred for 22 of the work orders. 4. 10 private lateral SSO's and 5 reported on-line				

FY 09-10 Ratings:

1. Excellent - generally sewer captures 100% of any spill.

Annual Performance Assessment / Recommendations for Updates

- 2. Below Goal Not applicable to Woodland.
- Below Goal 22 work orders did not specify when the CCTV occurred. CCTV is at the spill site but difficulty in capturing the time in the work orders.
- Below Goal Decision was made during the FY to stop reporting private lateral SSO's on-line as no other city does report private lateral SSO's

Recommendation #1: None.

Recommendation #2: Woodland is a flat area with a slope of less than 5% throughout the city, performance indicator does not apply in Woodland and should be removed.

Recommendation #3:Modify data entry in Cityworks to capture time CCTV began

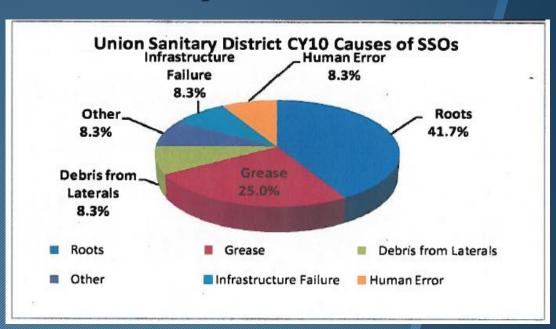
Recommendation #4: Change or remove performance indicator.



Example #2: Union Sanitary District

- + Measures SSMP effectiveness
- Does not
 completely
 evaluate SSMP
 compliance with
 D.13

✓ Includes historic and planned activities to reduce SSOs/impacts





Example #2, cont.: Union Sanitary District

✓ Includes detailed SSO information (SSO causes and corrective actions undertaken as a result of overflows)

Location of SSOs	and Preventa	tive Measures	
2010 Major Sp (Over 1000 gallo		ary	
(CIWQS) SSO ID#	Date	Amount	Summary
		1	No Maior Ocius

2010 Minor Spills Summary

(CIWQS)	T T		
SSO ID#	Date	Amount	Summary
748187	01/02/2010	200	This spill occurred from USD manhole AH13036, on Hartnell St. in Union City. All of the 200 gallons spilled were recovered and returned back to the collection system. On January 6, a CCTV was sent out to inspect the line, which was reported to have signs of grease and debris. This line is being inspected every six months for 1.5 years to determine if the cleaning schedule needs changed.
749372	02/02/2010	200	This spill occurred from USD manhole Al15003, at 34400 Mission Blvd. in Union City. All of the 200 gallons spilled were recovered and returned back to the collection system. After the review of this structure's history, the cleaning frequency was increased and a Smart Cover was installed.
749401	02/07/2010	320	This spill occurred from USD riser AC18008, at the end of L St. in Fremont. Estimated spill volume was 320 gallons and 315 gallons was recovered. It was estimated that 5 gallons trickled down the riprap and soaked into the dirt. Water samples for ammonia were taken and all results came back negative. None of the wastewater reached the creek. The crew washed down the affected areas, vacuumed up all of the water and returned it to the collection system. A CCTV crew televised the line and found a large root mass which was determined to cause the spill. The line was re-cleaned and has been added to our root control program.
752644	04/04/2010	600	This spill occurred from USD manhole S20027, located on Trenouth St. in Fremont. All of the 600 gallons spilled were recovered and returned back to the collection system. The street, gutter, and storm basins were also washed down and all of the water was vacuumed up and returned to the collection system. On April 5, a CCTV crew inspected the line and found small amounts of grease and root intrusion in several locations. The line was cleaned with a chain flail and added to our root control

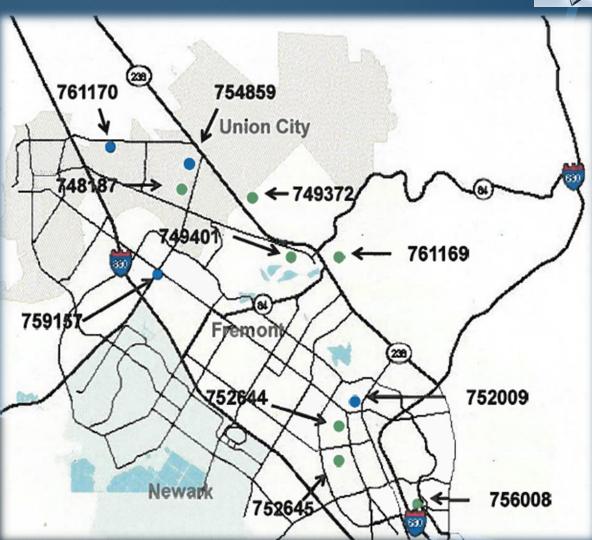
38



Example #2, cont.:

Union Sanitary
District

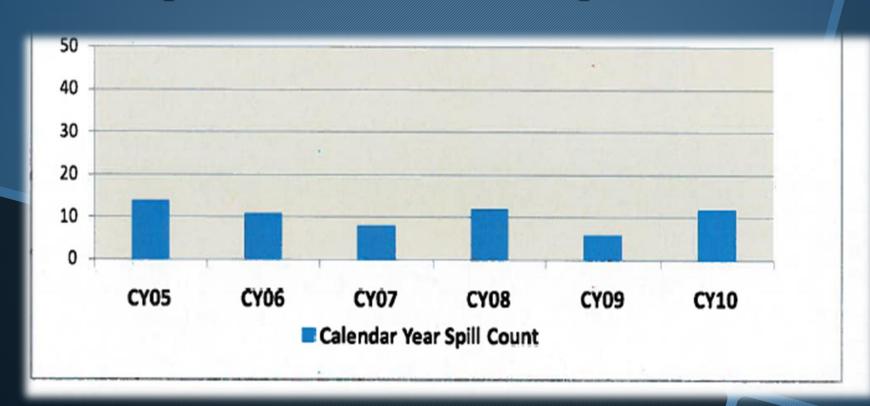
Includes
sewer
system map
showing
each SSO
location





Example #2, cont.: Union Sanitary District

✓ Graphic shows historic SSO performance





Example #2, cont.: Union Sanitary District

Highlights Accomplishments

Other Information

In the calendar year 2010, we had the following accomplishments;

Progress/Accomplishments

- Completed 1,021,413 feet of cleaning and 588,948 feet of televising of sewer lines in CY2010
- Responded to 258 service request calls in CY2010
- Completed a total of 212 main repairs in CY2010
- Provided support on the following projects: Asset Hierarchy, Solar Project, Pipe Vulnerabilities, Blacow Rd, Cast Iron Pipe Lining, IT Master Plan Update, and Plant Shut Downs
- Provided input on CIWQS online SSO reporting to State Water Board
- Hosted the kick off meeting for the CIWOS Data Review Task Force (TF)
- Participated with the Summit Partners WDR TF Discussing potential changes to the General Waste Discharge Requirements
- Presented and handed out the new Best Practices Manual for SSO Reduction Strategies at the annual BACWA membership meeting.
- · Participated in CWEA TCP update and validation TF
- Presented for CWEA Santa Clara Section Failure Analysis/SSO Prevention Strategies
- Presented for CWEA Mid Summer Conference in Morro Bay
- Presented for CWEA at Northern Regional Training Conference in Modesto
- Presented for CWEA SF Bay Section training in Antioch
- Attended CWEA Safety Conference in Woodland
- Hosted the CWEA SF Bay Section Vendor Fair
- Attended APWA training conference
- Attended CSRMA workshop on SSOs and Flooded Buildings
- Attended the Sewer Smart Summit hosted by ABAG



Example #2, cont.: Union Sanitary District

✓ Explains details about historic/future efforts

SOUTH AUGUS

USD has an SSMP addressing all of the required elements that has been in place for six years. We use our SSMP as a tool to manage our collection system. In 2010, we updated our SSMP twice. Specifics of the changes can be made available upon request.

Twice a year we audit and update our SSMP, once at the beginning of the Fiscal Year and once at the beginning of the Calendar Year.

In 2010, CIP completed the following:

- Completed the construction of the Blacow Rd. Sewer Rehabilitation/Replacement project
- Completed the construction of the Misc. Sewer Spot Repairs Phase I project
- Completed the construction of the Cast Iron Sewer Pipeline Rehabilitation Phase I project
- Completed the Treatment Plant Drainage study

In 2011, CIP is expected to work on:

- The design of the I-680 Freeway Sewer Crossing replacement at Hayward Fault
- The design and construction of the SFPUC/Mission Blvd. Relocation project
- The design of the Misc. Sewer Spot Repairs Phase III project
- The design of the Cast Iron Sewer Pipeline Rehabilitation Phase III project
- The design of replacing the flanged coupling adapters on the force main pipelines inside the pump station valve boxes



Example #2, cont.:

Union Sanitary District

Shows summary chart of sewage collected and sewage spilled

√ Shows list of efforts being undertaken to prevent SSOs

Description	Gallons	Percentage
CY10 Gallons Collected	9,415,160,000	99.9999999%
CY10 Gallons Spilled	2,084	0.0000221%
CY10 Not Recovered, That Did Not Reach State Waters	5	0.000001%
CY10 Reached State Waters	0	0.0000000%

CY 2010 Efforts to Prevent SSOs and Minimize Their Impact Through O & M

Count	Description Of Efforts	CY09
258	Service Requests investigated	245
26	Spot Repairs completed	41
186	Trenchless Point Repairs completed	136
741	Mains Cleaned on the Selective Maintenance Program (these are lines that have had blockages in the past)	555
1,970	Mains cleaned on 72 Months Preventative Maintenance Program	2,861
896	Mains Treated for Root Control (these are lines that have had root caused blockages in the past or were likely to in the future)	751
18	Stoppages that did <u>not</u> result in a spill due to a quick response or our system design with grade breaks and relief points	17
2,265	Mains Televised to assess line condition	3,349
128	Mains had their schedule adjusted to a more frequent schedule on the	22



Example #3

City of La Mesa

- + Evaluates SSMP compliance with D.13
- Does not completely measure SSMP effectiveness

Performance Measures	2008	2009	2010
	Actual	Actual	Actual
<u>Input</u>			
Total number of wastewater field personnel	9	9	9
Workload/Output			
Total number of SSO responded to in 12-month period	6	7	9
Total miles of sewer line maintained	172	195	198
Lineal feet of sewer televised	27,948	13,530	25,805
Total SSO> 1,000 gallons responded to	0	0	6
Total FOG related SSOs responded to	0	0	2
Total root related SSOs responded to	3	2	1
Total SSOs due to other caused (debris, vandalism, etc)	3	5	1
Total number of capacity related SSOs	0	0	5
Total number of SSOs due to pump station malfunction	0	0	0
Number of SSOs responded to within 2 hours or less	6	6	9
Total number of SSOs not reaching storm drain system	1	4	0
Effectiveness/Outcome			
Percentage of SSOs > 1,000 gallons	0%	0%	66%
Percentage of SSOs due to FOG	0%	0%	22%
Percentage of SSOs due to roots	50%	29%	11%
Percentage of SSOs due to other causes	50%	71%	66%
Percentage of SSOs that reached waters of Unites States	83%	43%	100%
Percentage of SSOs with response time 2 hours or less	100%	86%	100%



Example #3, cont.: City of La Mesa

SSMP Program Audit City of La Mesa

Chapter 4.0: Legal Authority

The Legal Authority element includes the following subsections:

- Regulatory Requirements for Legal Authority Provisions
- Background for Legal Authority
- Summary and Evaluation of the City's Existing Legal Authority

The intent of the Legal Authority element is to provide authority for the City to administer its collection system and to provide measures to enforce codes and regulations.

<i>Audit</i> Does Yes	the	SSN	IP contain current information about the City's legal authority?
Does Yes			have sufficient legal authority to control sewer use and maintenance? □



Example #3, cont.: City of La Mesa

Discussion:

The SSMP contains a background section which discusses the regulatory authority derived from Federal and State regulations as well as a section which discusses and evaluates the City's existing legal authority. As stated in the SSMP, on April 14, 2009, the City adopted additional municipal codes to ensure the City possesses the necessary legal authority to require, implement, and enforce compliance with the SSMP elements. As elements of the SSMP evolve and are further refined, the legal authority necessary to implement the provisions and require compliance by its residents and rate payers may also be addressed. At this time, it is determined that the City has adequate legal authority to administer the collection system, and enforce codes and regulations.

Updates to This Chapter:

The City shall add the Fats, Oils, and Grease (FOG) Ordinance 2009-2794 and 2009-2795 to Appendix H of the Sewer Master Plan, which is referenced in the SSMP. The updates are included within Attachment A-1 to this document.



Example #3, cont.: City of La Mesa

SSMP	Program /	Audit
City of	La Mesa	

Chapter 4.0: Legal Authority

The Legal Authority element includes the following subsections:

- Regulatory Requirements for Legal Authority Provisions
- Background for Legal Authority
- Summary and Evaluation of the City's Existing Legal Authority

The intent of the Legal Authority element is to provide authority for the City to administer its collection system and to provide measures to enforce codes and regulations.

Does	the	tions: SMP contain current information about the City's legal authority? Io □
		ity have sufficient legal authority to control sewer use and maintenance? lo □



Example #4:

Discharger "1"

- Does not measure SSMP effectiveness
- Presents no details

<u>Directions</u>: Please check YES or NO for each question. If NO is answered for any question, describe the updates/changes needed and the timeline to complete those changes in the "Description of Scheduled Updates/Changes to the SSMP" section at the end of this form.

	[YES	NO
		I LLO	
CLE	MENTAL GOALS OF THE STATE OF TH		100
١. ١	Are the goals stated in the SSMP still appropriate and accurate	2	
FI F	MENTAL ORGANIZATION REMOTE THE RESERVE OF THE PARTY OF TH		长期始
Δ	Is the Public Works Key Staff Telephone List current?		
В.	Is the Sanitary Sewer Overflow Responder Telephone List current?	_ W	
C.	Is the SSMP "City Organization Chart" current?	P	
D.	Are the position descriptions an accurate portrayal of staff responsibilities?	T	
_	Is the SSMP "Chain of Communication for Reporting and Responding to	2	0
E.	SSOs" accurate and up-to-date?	on and	10000
EL	EMENTS SEEGAL AUTHORITY SEEDEN SEEDEN SEEDEN		
Doe	s the SSMP contain excerpts from the current City Municipal Code documenting	ig the C	Ity's
lega	authority to:	/	
A.	Prevent illicit discharges?		
B.	Require proper design and construction of sewers and connections?	E	
C.	Ensure access for maintenance, inspection, or repairs for portions of the	₽ .	
C.	lateral owned or maintained by the City?	-	
D.	Limit discharges of fats, oils, and grease?	- E	-
E.	Enforce any violation of its sewer ordinances?	(A)	
ĖĹ	EMENT 4 COPERATIONS AND MAINTENANCE	PAN NAME	14 原源
ناف الواحد	Collection System Mans		/
	Does the SSMP reference the current process and procedures for maintaining	100	
A.	the City's wastewater collection system maps?		



Example #4, cont.:

Discharger "1"

В.	Are the City's wastewater collection system maps complete, current, and sufficiently detailed?	2					
	Resources and Budget						
C.	Does the City allocate sufficient funds for the effective operation, maintenance and repair of the wastewater collection system and is the current budget structure documented in the SSMP?	z /	0				
	Prioritized Preventive Maintenance						
D.	Does the SSMP describe current preventive maintenance activities and the system for prioritizing the cleaning of sewer lines?	•					
E.	Are the City's preventive maintenance activities sufficient and effective in minimizing SSOs and blockages?	2	0				
	Scheduled Inspections and Condition Assessments						
F.	Is there an ongoing assessment program sufficient to develop a capital improvement plan addressing the proper management and protection of infrastructure assets? Are the current components of this program documented in the SSMP?						
	Contingency Equipment and Replacement Inventory						
G.	Does the SSMP list the major equipment currently used in the operation and maintenance of the collection system and document the procedures on inventory management?	P					
H.	Are contingency equipment and replacement parts sufficient to respond to emergencies and properly conduct regular maintenance?	a	0				
	Training						
I.	Is the training calendar current?	a					
J.	Does the SSMP document current training expectations and programs within the City's Wastewater Division?	DZ	_				
-	Outreach to Plumbers and Building Contractors	,					
K.	Does the SSMP document current outreach efforts to nlumbers and building	a	0				
EI	EMENTS DESIGN AND PERFORMANCE STANDARDS ************************************	1	4.5				
Α.	Does the SSMP contain current design and construction standards for the installation of new sanitary sewer systems, pump stations and other	w/	0				
В.	Does the SSMP document current procedures and standards for inspecting						



Example #5: Discharger "2"

X. SSMP Program Audits

New, or different information that has been reflected in SSMP keeping the document accurate in terms of staff, and contact information, and the addition of two SSO's which have occurred since August 2009.

Organization

LRO:

Data Submitter: 1

Operations staff:

Recent SSO's

February 6, 2010: re

(reached receiving waters)

April 4, 2010:



6. SSMP Audit changes being considered

6. SSMP Audit Changes Being Considered, cont.



- 1. Delete RB2 Annual SSMP Audit Requirement; revert to General WDR's 2-year time requirement
- 2. Possible changes being considered for inclusion in revised General WDR:
 - Require results of D.13(ix), "Monitoring, Measurement and Program Modifications" to be included in 2-year Audit
 - 2) Consider 2-year Audit time clock to "reset" if SSMP is re-adopted by local governing board

6. SSMP Audit Changes Being Considered, cont.



3. Develop new Online CIWQS Form to satisfy 2-year SSMP Audit requirement.

Benefits:

- Helps discharger comply with General WDR SSMP Audit requirements
- Helps ensure statewide consistency and compliance
- Utilizes CIWQS information to auto generate audit metrics (# of SSOs, volume, causes, etc.)
- Provides platform to showcase discharger's strategic efforts, programs, strategies, and approaches to reduce/eliminate SSOs 53

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