United States Environmental Protection Agency Pacific Southwest Region (Region 9)



Clean Water Act Compliance Evaluation Inspection Tamalpais Community Services District Wastewater Collection System (Satellite Collection System to Sewerage Agency of Southern Marin WWTP NPDES No. CA 0037711 and to Sausalito-Marin City Sanitary District WWTP NPDES No. CA 0038067)

Date of Inspection: August 8, 2007

Inspection team:	Rick Sakow, EPA
	Max Kuker, PG Environmental

Facility representatives: Robert Bunce

Report prepared by: Max Kuker, PG Environmental

Date prepared: February 11, 2008

Background

On 8/7/2007, USEPA Region 9 and its contractor inspected the Tamalpais Community Services District's (the "District") sanitary sewer system located in the unincorporated county area of Tamalpais Valley, located in southern Marin County, CA (between Mill Valley and Marin City). Spills and sanitary sewer overflows (SSOs) from the sewer system are prohibited by the Clean Water Act. Additionally, spills and SSOs from the District's system are prohibited by Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, WQO No. 2006-0003. The District is an enrollee under the Statewide General Waste Discharge Requirements. Additionally, the Agency is required to comply with the San Francisco Bay Regional Water Quality Control Board's July 2005 Section 13267 of the California Water Code letter that establishes earlier deadlines for submittal of Sewer System Management Plan (SSMP) components than the SSMP deadlines present in WQO No. 2006-003. As such, the Agency must comply with both the Section 13267 letter and WQO No. 2006-003 requirements.

The primary purpose of the inspection was to document the history of sewage spills, determine the adequacy of the District's spill response and prevention programs, evaluate sewer maintenance activities, and assess the accuracy and reliability of its spill reporting procedures. The primary on-site facility representative was Mr. Bob Bunce. Mr. Max Kuker from PG Environmental, LLC led the inspection accompanied by Rick Sakow from USEPA Region 9. The inspection included an interview held within the District's office and a tour of a pump station (Bell Lane Pump Station) located in the District's Municipal Yard. The weather at the time of inspection was sunny.

The District provides sewer, garbage, and parks services to citizens of the unincorporated county areas in Tamalpais Valley. The District's service area encompasses the Tamalpais Valley of Southern Marin County. The District's sewer service area is divided into eight zones based on the configuration of the sewer system. The District has an estimated population of approximately 6,000, with approximately 2,500 households and a small complement of commercial sites. The District is close to full build-out and expects approximately 5-10 new connections per year. According to the District's Sewer System Management Plant (Phase I), the District has approximately 812 maintenance access structures (582 manholes and 230 rodholes).

The District owns and operates approximately 27 miles of gravity sewer pipes, less than one mile of force main, and two pump stations. Two additional pump stations were under construction at the time of the inspection. Approximately 38% of the sewer in the District is located in private easements which has created difficulty in maintaining a large portion of their system, according to District staff. A large percentage of the District sewers are made of clay and were installed in the 1950s and 1960s.

At the time of the inspection, sewage from the entire District, except Kay Park, was pumped south to the Sausalito-Marin County Sanitary District (SMCSD) for treatment and disposal. Discharges from the SMCSD wastewater treatment plant into Richardson Bay are regulated under NPDES permit No. CA0038067. Sewage from Kay Park, a small subdivision, was pumped north to the Sewerage Agency of Southern Marin (SASM) wastewater treatment plant. Discharges from the SASM wastewater treatment plant into Raccoon Strait (Central San Francisco Bay) are regulated under NPDES permit No. CA0037711.

According to Mr. Bunce, the District is making efforts to inventory their system, investigate possible areas of Inflow and Infiltration (I&I), and identify additional "hot spots." The District entered into a contract with E2, approximately six months prior to the inspection, to close caption circuit televise all 27 miles of their gravity sewer system. The televising is currently in progress, but a completion date was not provided. According to Mr. Bunce the District has also smoke tested many areas of their sewer system twice within the last 29 years.

Mr. Bunce stated that the average dry weather flow was approximately 300,000 gallons per day (gpd) and their average peak wet weather flow was approximately 800,000 gpd, indicating a peaking factor of approximately 2.5 to 3. The District stated that their estimated peak wet weather flow was approximately 1.9 million gallons per day on December 31, 2005 during an extreme wet weather event. The District is billed by the SASM wastewater treatment plant based on the number of connections rather than flow which provides no incentive to reduce I&I. Mr. Bunce stated that the District is currently incorporating a significant I&I review into the sewer televising project.

The District currently and historically has had an un-written agreement with Roto-Rooter for off-hour SSO response. This agreement is for 'on-call' sewer maintenance, blockage, and spill response after hours, on weekends and on holidays. According to Mr. Bunce, approximately 40 percent of all calls to his office to report an overflow or blockage are directed to call Roto-Rooter who investigates and corrects the problem. Roto-Router then provides documentation to Mr. Bunce regarding the volume of the spill, the cause of the spill, and the corrective actions taken to mitigate the spill, along with an invoice for its services.

Under section 301(a) of the Clean Water Act (CWA), it is unlawful for any person to discharge any pollutant from a point source into "waters of the United States" except in compliance with a NPDES permit. The Tamalpais Community Services District does not have an NPDES permit that authorizes the discharge of sewage spills. Therefore, any sewage spill from the District's collection system that flows to "waters of the United States" constitutes a violation of the Clean Water Act.

Attached to this inspection report are the following documents:

- Attachment 1 Tamalpais Community Services District's Annual Budget for Fiscal Years 2005/2006 and 2006/2007;
- Attachment 2 Tamalpais Community Services District's SSO Tracking Sheet;

- Attachment 3 Tamalpais Community Services District's Sanitary Sewer Overflow Report; and
- Attachment 4 Roto Rooter After-Hours, Weekend, Holiday Response Checklist.

Findings

1. Occurrence of spills. Discharges to waters of the United States without a permit are prohibited under Section 301(a) of the Clean Water Act. Additionally, as per Part C.1 Prohibitions of the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, WQO No. 2006-0003, any spill that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited. The District reported seven sewage spills in calendar year 2005, eight sewage spills in calendar year 2006, and eight spills through May 1, 2007 from its collection system to the California Regional Water Quality Control Board. According to the reports, six of seven of the spills in the 2005 reporting period were a result of blockages due to roots, all but one of the eight spills in 2006 were caused by blockages in the system from multiple sources including roots, grease, and multiple unidentified sources, and five of the eight spills reported for the selected period of 2007 were caused by blockages due to roots. Combined, the reported spills total approximately 10,950 gallons with approximately 9,175 gallons reaching waters of the State. All spills listed in this report were reported to the San Francisco Bay Regional Water Quality Control Board via the Regional Water Board's SSO website and within the District's Annual Report. Based on 28 miles of sewers in the Tamalpais Community Services District, the spill rate was 25 spills/100 miles/yr in 2005 and was 28.5 spills/100 miles/yr in 2006. A listing of the reported spills is provided in Table 1 below.

Since May 2007, the District has been required to report all sewage spills to the State Water Resources Control Board via the California Integrated Water Quality System (CIWQS) website. The spills reported to the CIWQS system were not included in this report.

Incident Date	SSO Estimated Volume (gal)	SSO Estimated Volume Recovered	SSO Destination	Cause of S	SSO
4/26/2007	50	0	BUILDING/STRUCTURE	BLOCKAGE	ROOTS
4/24/2007	50	0	YARD/LAND	BLOCKAGE	ROOTS
4/20/2007	120	0	YARD/LAND	BLOCKAGE	ROOTS
3/23/2007	100	0	STREET/CURB & GUTTER	BLOCKAGE	ROOTS
2/18/2007	100	0	STREET/CURB & GUTTER	BLOCKAGE	ROOTS
2/15/2007	30	0	YARD/LAND	BLOCKAGE	GREASE
2/6/2007	3,300	0	SURFACE WATER IMPACT	INFRASTRUCTURE FAILURE	N/A
2/6/2007	1,600	0	SURFACE WATER IMPACT	INFRASTRUCTURE FAILURE	N/A
12/2/2006	40	0	GROUND WATER IMPACTED	BLOCKAGE	MULTIPLE CAUSES
11/20/2006	0	0	NO WATER INVOLVED	BLOCKAGE	GREASE
8/19/2006	450	0	STORM DRAIN	BLOCKAGE	MULTIPLE CAUSES
8/14/2006	100	0	STORM DRAIN	ELECTRICAL POWER FAILURE	GREASE
8/13/2006	30	0	YARD/LAND	BLOCKAGE	DEBRIS FROM LATERALS
2/22/2006	600	0	STREET/CURB & GUTTER	BLOCKAGE	ROOTS
1/23/2006	200	0	YARD/LAND	BLOCKAGE	ROOTS
1/17/2006	100	0	STREET/CURB & GUTTER	BLOCKAGE	ROOTS
12/2/2005	25	0	STORM DRAIN	BLOCKAGE	ROOTS
12/2/2005	0	0	NO WATER INVOLVED	BLOCKAGE	ROOTS
12/2/2005	200	0	YARD/LAND	BLOCKAGE	ROOTS
12/2/2005	100	0	STORM DRAIN	BLOCKAGE	ROOTS
11/22/2005	3600	1500	SURFACE WATER IMPACT	INFRASTRUCTURE FAILURE	N/A
10/12/2005	30	0	STREET/CURB & GUTTER	BLOCKAGE	ROOTS
9/4/2005	100	0	YARD/LAND	BLOCKAGE	ROOTS

Table 1. Reported Spills from January 1, 2005 through April 30, 2007 from the District's Collection System

2. Failure to maintain adequate records for reported and unreported spills. As per Part B.5 of the Monitoring and Reporting Program (MRP) No. 2006-0003-DWQ, the District is required to maintain records of all SSOs. At the time of the inspection, the District representatives provided a tracking sheet (see Attachment 2) of the spills responded to by the District staff and a separate response log that is prepared by Roto-Rooter for spills responded to by Roto-Rooter staff. The tracking sheet used by the District staff contains only the following information: address, Water Board tracking number, and date of the spill. Mr. Bunce stated that no other forms or field reports are used to document any additional details of the spill, including the start and end times of the spill, cause of the spill, estimated

volume of the spills, etc. Therefore, very little documentation was available to confirm the accuracy of the information submitted to the Regional Water Board regarding spills. The District contracted a vendor to assist them in the development of a Sanitary Sewer Overflow Report form (see Attachment 3) to be used in the field that appears to meet the requirements of the MRP, but the District had not implemented the use of the form at the time of the inspection. The documentation provided to the District by Roto-Rooter (see Attachment 4) does appear to provide adequate field documentation regarding its spill response although it is encouraged that Roto-Rooter implement the use of the District's new Sanitary Sewer Overflow Report form to provide additional information that will assist the District during evaluations of their maintenance and response programs.

3. Failure to contain and mitigate the impacts of an SSO. As per Part D.3 of the State Water Resources Control Board Order No. 2006-0003-DWQ, in the event of a spill, the enrollee shall take all feasible steps to contain and mitigate the impacts of an SSO. The District relies on a verbal agreement with Roto-Router to respond to spills and correct problems which may have caused the spill. Mr. Bunce stated that Roto-Rooter responds to overflows that occur on weekends, after hours, and holidays and account for approximately 40% of the overflows in the District overflows. The average distance between the District and Roto-Rooter in Novato is approximately 20 miles; therefore, it is unlikely that a response time would be less than 30 minutes. Other factors could lengthen the time considerably, e.g., traffic on US 101. According to Mr. Bunce, the response times varies but typically ranges between 30 minutes and 1-hour. During the period from January 1, 2005 through April 30, 2007, the District reported 23 spills totaling approximately 10,950 gallons. The District was only able to recover approximately 1,500 gallons, accounting for 13.7 percent of the total volume.

There is no written or verbal agreement between the District and Roto-Router regarding the maximum response time for SSOs. In addition, the District is limited to tasking Roto-Rooter with small jobs (under \$15,000 for any one project) without procuring the work through a contract with a bid and proposal process. This limitation could possibly prevent the Roto-Rooter from properly responding in the event of a catastrophic spill.

Summary

The information gathered during the inspection indicates a lack of adequate documentation of maintenance and spill records, reporting, and tracking. The lack of this documentation appears to stem from a failure to implement a mechanism to clearly track the operation and maintenance of the sewer system, spills and associated activities, and planning for future maintenance activities. These mechanisms are essential for enabling the District to evaluate its activities to decrease the number or eliminate spills completely from its sewer system. Tracking spills and maintenance is important to identify areas where increased maintenance may be necessary. For example, the District identified root intrusion as primary cause of spills; tracking root intrusion "hot spots" as well as tracking maintenance activities related to these hot spots will assist the District in preventing future spills. The District does not perform proactive routine maintenance of their overall system. The District has a hand-written "Tamalpais Community Services District Sewer Maintenance Schedule" identifying "hot spots" dated 2000; District personnel stated that this has been updated.

The District is encouraged to augment their current spill data acquisition and tracking to collect information such as the source and mechanism of initial identification of a spill (e.g., resident via government pages listing for Sanitary District) and response time. The District collected some relevant information on a tracking form that was completed by personnel in the office, but the form does not contain enough information to document the specific events of a spill. Better tracking and evaluation of the information would allow for future performance tracking and reporting.

ATTACHMENT 1

Tamalpais Community Services District's Annual Budget for Fiscal Year's 2005/2006 and 2006/2007

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MK 8/1/07	Amount	85.00 85.77 85.77 90.00 90
	Memo	 Flow Monitoring for Sewer Improvement Proje Ito capitalize assets Slide Gate at Bell Lane Slide Gate 9/1 - 9/30/05 #1 Engineering 11/01 > 11/31/05 Slide Gate Dasign 10/1 - 10/31/05 Slide Gate A Design 10/1 - 10/31/05 Sched A Design 10/1 - 11/30 Sched A Design 10/1 - 10/31/05 Sched A Design 10/1 - 11/30 Sched A Design 10/1 - 10/31/05 Sched A Design
Tamalpais Community Services District Transaction Detail By Account ^{July 2005 through June 2006}	Name	E2 Consulting Engineers, E2 Consulting Engineers, Nute Engineering Nute Engineering
Tar	Num	al CA-N CA-N Fid33 6272 6348 CA-N HT06 HT06 8721 8721 8721 8723 7190 7190 7190 7190 7190 7190 7190 7190
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· ·	Type	6000 - Active Capital Projects 5603 - 2005-06 Sewer Impv Genera 3177/2006 Bill 5/15/2006 Bill 5/15/2006 Bill 5/15/2006 Bill 5/15/2006 Bill 5/15/2006 Bill 5/15/2006 Bill 8/30/2005 Bill 8/30/2005 Bill 9/30/2005 Bill 1/3/2005 Bill 1/3/2006 Bill 1/3/2005 Bill 1/1/30/2005 Bill 1/1/30/2005 Bill 1/2/1/2/2005 Bill 1/1/30/2005 Bill 1/1/30/2005 Bill 1/1/30/2005 Bill 1/1/30/2005 Bill 1/1/30/2005

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Tamalpais Community Services District Transaction Detail By Account July 2005 through June 2006 2

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Tamalpais Community Services District Transaction Detail By Account July 2005 through June 2006

Name Memo	Marin County Tax Collector Attorney fees April > June 05 Bartle Wells Associates Financing services for \$3 mil loan Marin County Treasurer-T Byron 7/1/05 > 9/30/05 10 to capitalize assets
Num	
Date	12/12/2005 1/3/2006 5/15/2006 6/30/2006
Type	Bill 12/12/2005 Bill 1/3/2006 2921 Check 5/15/2006 911 General Journal 6/30/2006 HTO Total 5/14 - Source Back Incorrect 2005 (60

Amount

Sewel Rale Increase 2005/06

Total 6000 · Active Capital Projects

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Tamalpais Community Services District Transaction Detail By Account

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			July 2006 through June 2007	June 2007	
Type	Date	Num	Name	Memo	Amount
6000 · Active Capital F 5610 · 2006-07 Sew	Projects ver Impr General				
General Journal	9/19/2006	•	E2 Consulting Engineers,	July 1 - 28. 2006	E EAD OD
General Journal	10/23/2006	1922	Nute Engineering	#6640, 6712	337.50
Bill	1/24/2007	1923	EZ Consulting Engineers, Mevers Nave	July 1 - 28, 2006 12/24/06 Source Jatanala Atta: Fara	41,020.00
General Journal	1/29/2007	Fid 2	E2 Consulting Engineers.	12/01/00 Dewei Laterais Atty rees #3 Fidelity #2078	296.64
General Journal	1/29/2007	Fid 2	E2 Consulting Engineers,	#4 Fidelity #2078	3.547.50
General Journal	1/29/2007	Fid 2	E2 Consulting Engineers,	#5 Fidelity #2078	3,080.00
General Journal	2006/1678		Nute Engineering	#6486, 6871, 7062	1,035.00
General Journal	4/20/2007	7171 2171	Ez Consulting Engineers, Nute Engineering	6 Nov 25 - Jan 31 07, incl Subtronic Corp	21,869.44
General Journal	5/21/2007	2190c	Nute Engineering	Assist 1 V 2/01/01 - 2/28 Nithe 7261 TV 3/1 - 2/24	102.00
General Journal	6/4/2007	2 ² 08a	Nute Engineering	Nute 7323	326.00
General Journal	6/30/2007	Nute	Nute Engineering	#7395 Assist E2 5/1 - 5/30	51.00
General Journal	6/30/2007	2 2 2	E2 Consulting Engineers,	Collection System Evaluation Jan 27 - May 25	15,053.32
General Journal	6/30/2007	Nute	EZ Consulting Engineers, Nute Engineering	Collection System Evaluation May 26 - June 2 #7455 Assist E2 TV Inspection June 07	4,180.00
Total 5610 · 2006-0	7 Sewer Impr General	neral			112 820 90
5601 · Robin, Starli	ing.Bell Mkt Sewers	ers			
Bill		3013	Water Components & Buil	4".Pipe and fittings	73.24
General Journal	7/27/2006	MF D	Maggiora & Ghilotti Inc.	Draw #4, MG Progress Pmt #2	352.095.96
General Journal	7/27/2006	MF D	Nute Engineering	#6504 June 06 Engineering	6,654.25
General Intrnat	0/12/16/1	397323 1016	Marciane & Childer Compa	30/ Starling repair	114.11
General Journal	9/19/2006	1917	iviaggiora & Grillotti Inc. Nute Encineering	Progress Pmt #650 6501 6504 6405	57,901.27 17 GEO 7E
General Journal	9/19/2006	1918	Miller Pacific Engineering	Solls Engineering	17,950,50
General Journal	9/19/2006	1919	Water Components & Buil	30139523 4" pipe	73.21
Check	9/19/2006	9 <u>5</u>	Postal Annex	Notary services	20.00
General Inurnal	9/20/2006	4071	Marin County Recorder	VOID: Recording Fee for Sewer Completion	0.00
General Journal	10/23/2006	1922	waggiora & Grillotti Inc. Nute Engineering	Progress Prmt #6639 6711	45,018.88 5 851 00
General Journal	1/29/2007	Fid 2	Nute Engineering	#6785, 6863, 7061	730.25
General Journal	3/21/2007	Fid 2	Nute Engineering	7128 Jan 07	194.00
General Journal General Journal	2/002/12/2	FIG 2	Nute Engineering	7126 Jan 07 Sched A	798.97
General Journal	4/20/2007	2171	Nute Engineering	Prepare As built Drawings 2/01 - 2/28 Sched A 2/01/07 - 2/28	1,164.00 6.104.25
Total 5601 · Robin,S	Starling, Beil Mkt Sewers	Sewers		· .	507,404.61
5602 · Cardinal & F	Flamingo Sewer	s (C)			·
General Journal		MF D	Nute Engineering	#6501 June 06 Engineering	184.00
General Journal	10/23/2006	1922 E:4 2	Nute Engineering	#6637	1,506.00
Bill	4/4/2007	M47702	Roto-Rooter Sewer Service	#o/oi, oooo Cardinal Court, TV 36 Laterals @ \$205, Clean	7.805.00
General Journal	6/4/2007	2208d	Nute Engineering	Nute 7322	485.00
Bill General Journal	6/30/2007 6/30/2007	7796 Nute	Marin Independent Journal Nute Engineering	6/10 + 6/17 Notice Inviting Bids for 07 Sewer #7393 Engineering 5/1 - 5/30	162.34 15 957 00

Total 5602 · Cardinal & Flamingo Sewers (C)

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Tamalpais Community Services District Transaction Detail By Account July 2006 through June 2007

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20,443.46 5,693.44 155.94 1,760.58 1,501.00 4,369.34 1,388.00 349.35 4,407.95 2,353.25 15,660.52 2,000.00 8,659.16 790.00 26.25 1,077.00 5,888.75 162.34 12,999.50 37,004.50 901.98 11,275.00 1,998.94 3,520.85 704.00 155.94 ,600.61 0.0 2,503.44 1,145.00 3,365.99 0.0 48,646.10 448.00 2,372.25 43,683.55 3,982.64 Amount /OID: Application for Service to Flamingo Roa... #6779, 6780, 6866, 6867, 7058, 7059 Service Application for Tenn Valley Rd Pump ... 7124 Jan 07 Sched A incl DCV 7125 Jan 07 Sched B Engineering Services 3/1/07 - 3/31/07 6/10 + 6/17 Notice Inviting Bids for 07 Sewer ... ease Property for Pump Station on Flamingo Votice Bids for Pump Stations 2/25/07 #5777, 6778, 6864, 6865, 7056, 7057 7122 Jan 07 Sched A incl DCV 7123 Jan 07 Sched B Votice Bids for Pump Stations 2/25/07 #7326 Engineering April 1 - 30 # 7396 Engineering May 1 - 30 #7458 Engineering June 07 #7459 Engineering June 07 #7397 Engineering May 1 - 30 #7457 Engineering June 07 #7398 Engineering May 1 - 30 #7460 Engineering June 07 47199 Printing Plans & Specs Memo 6499 June 06 Engineering #6500 June 06 Engineering Sched A 2/01/07 - 2/28 Sched B 2/01/07 - 2/28 Sched A 2/01/07 - 2/28 Vute 7260 3/1 - 3/31 inda Way, Ross Dr Vute 7259 3/1 - 3/31 6634, 6707 Vute 7328 Jute 7327 t6708 #6782 Marin Independent Journal Marin Independent Journal Marin Independent Journal Pacific Gas & Electric Pacific Gas & Electric Name Nute Engineering **Nute Engineering Nute Engineering** Vute Engineering Vute Engineering Vute Engineering Vute Engineering Vute Engineering Nute Engineering **Nute Engineering Nute Engineering** Nute Engineering **Nute Engineering** Nute Engineering Nute Engineering Nute Engineering Nute Engineering Nute Engineering Vute Engineering Vute Engineering Vute Engineering Chevron U.S.A. 5595 • Pump Station Tenn Valley Rd (C) General Journal 7/27/2006 MF D... Mum 1922 Fid 2... Fid 2... Fid 2... 2171 2190c 2208c Nute... Nute... 6502 Fid 2... 7796 Nute... Nute... Nute... MF D. 1922 Fid 2... Fid 2... 10329 1089... 2171 2171 2190c 2208b Nute... Nute... Total 5595 · Pump Station Tenn Valley Rd (C) 5590 • Flamingo Rd Lift Station #2 (C) 7/4/2006 9339 Total 5590 · Flamingo Rd Lift Station #2 (C) 5607 · Jean-Linda-Ross Sewer Improv 07 7/27/2006 10/23/2006 1/29/2007 3/21/2007 3/21/2007 7/27/2006 1/29/2007 6/30/2007 6/30/2007 6/30/2007 6/30/2007 4/20/2007 5/21/2007 3/21/2007 6/30/2007 6/30/2007 7/24/2006 Date 1/20/2007 6/30/2007 6/30/2007 1/29/2007 5/15/2007 1/12/2007 6/30/2007 121/2007 112/2007 /20/2007 /21/2007 6/30/2007 6/4/2007 /9/2007 1/6/2007 3/4/2007 General Journal General Journal **General Journal** General Journal **Beneral Journal** General Journal Type Check Check m Bill B B

Total 5607 · Jean-Linda-Ross Sewer Improv 07

Total 6000 · Active Capital Projects

TOTAL

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ATTACHMENT 2

Tamalpais Community Services District's SSO Tracking Sheet

MK 8/1/07 Tracking #5 309 Carreria - # 2196 9/25/05 + W calif à Shoreline 2198 10/16/05 x 388 convert 2200 9/24/05 x Shoreline Haix & Tenn AVE 2208 11/26/05 # 296 morning son 2210 10/12/05# 1045 Erica Rd 2213 9/4/05 203 marzin Alles 2191 4/25 295 morning 1/17/06 2640 315 Carrera 1/23/06 2682 Chamberlain of 2/23/2006 2917 360 Jean 3727 8/14/06 301 Enterprize 3731 8/14/06 335 Jean St 3777 8/23/06 247 Shoreline 4143 11/20/06 Grease Shareline twoy 4735 2/6/07 hole Shoveline Hard 4738 410 maple st 4787 2/15/07 Grease Roats 558 faurview 4789 2/18/07 Roots 806 Smith Rd 4990 3/23/07 Thoots

ATTACHMENT 3

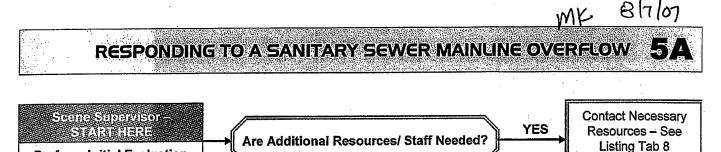
Tamalpais Community Services District's Sanitary Sewer Overflow Report

Tamalpais Community Services District Sanitary Sewer Overflow Report *= Required Fields

	This Deport is (check one), I I Dreliminary I I Final I I Revised Final
A. SSO OCCURRING TIME	This Report is (check one): Preliminary Final Revised Final
Date SSO originally reported:*	/ SSO Date:*/ SSO Time:*:
SSO End Date:*///	SSO End Time:*: SSO Duration:* (<i>hour</i>)
SSO Reported To:	
SSO Reported By:	Phone:
	urs: Sunny Weather Cloudy Weather Rainy Weather Rain for Several Days
	ucture ID#: □ Pipe □ Clean Out □ Pump station □ Oth
- If Other, please specify:	
Final spill destination: * Storm	n Drain 🗆 Capture in Storm Drain 🛛 Building Structure 🗅 Yard/Land
□ Street/Curb & Gutter □ Surfa	ace Water Impact Ground Water Impact No Water Involved Unknown
Did incident reach State water?	* □ Yes □ No Any Fish Killed?* □ Yes □ No
Estimate volume spilled:* (in ga	allons) Method Calculated:
Volume of SSO recovered/conta	ained:* (gal) Volume of SSO discharged to State water:* (gal)
Were photos taken? No Ye C. SSO LOCATION	<u>+s</u> → How many?:
Street address/Site:*	
City;*	County:*ZIP Code:*
D. CAUSE OF SSO	
	Infrastructure Failure D Inflow Infiltration D Electrical Power Failure
	ty Deficiency 🛛 Natural Disaster 🗅 Bypass 🗅 Cause Unknown
	ease specify: Roots Grease Debris Debris from Laterals Vandalism
•	
	e Failure, please specify: Breakage of collection system
	ollection system 🛛 Leaks to collection system 🗆 Pump station failure 🗅 Multiple cause
- Specify other cause:	
E. INCIDENT RESPONSE	ving water:*
	/ing water:*
E. INCIDENT RESPONSE Visual inspection result of receiv	
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E. INCIDENT RESPONSE Visual inspection result of receiv Were response/corrective action Were disinfections actions taken	ns taken? * □ Yes □ No Were clean-up actions taken? * □ Yes □ No n? * □ Yes □ No Were samples collected? * □ Yes □ No
E. INCIDENT RESPONSE Visual inspection result of receiv Were response/corrective action Were disinfections actions taken Any on-going investigation? * []	ns taken? * Yes No Were clean-up actions taken? * Yes No Were samples collected? * Yes No Vere samples collected? * Yes No - If Yes, Please specify completion date: / /
E. INCIDENT RESPONSE Visual inspection result of receiv Were response/corrective action Were disinfections actions taken Any on-going investigation? * - Status: Open Active Open	ns taken? * Yes No Were clean-up actions taken? * Yes No Yes No Yes No - If Yes, Please specify completion date:/ Enforcement Closed
E. INCIDENT RESPONSE Visual inspection result of receiv Were response/corrective action Were disinfections actions taken Any on-going investigation? * - Status: Open Active Open Were health warning posted?	ns taken? * Yes No Were clean-up actions taken? * Yes No Were samples collected? * Yes No Yes No - If Yes, Please specify completion date:/ Enforcement Closed Yes No # Days warnings posted: Any beach closure? * Yes No
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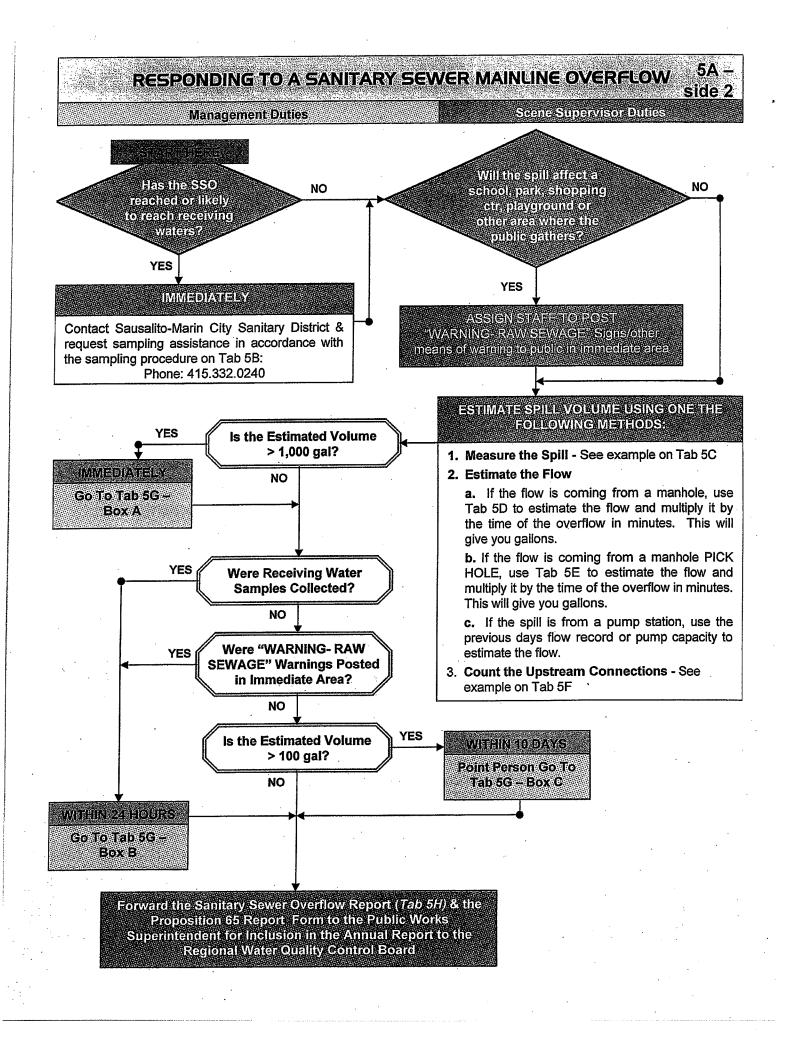
MK Blalm

Tamalnais Commi		
	inity Services District Sanitary Se	wer Overflow Report – SIDE 2
	REGULATORY NOTIFICATIONS - ST	
YES	Is the Estimated Volume > 1,000) gat?
	NO	
YES	Is the Estimated Volume > 100	gal?
	NO	
YES	Were Receiving Water Samples Co	llected?
	NOL	
YES	ARNING-RAW SEWAGE! Warnings Pos	ted in Immediate Area?
	NO	
YES	ns/Ditches or <u>ANY</u> Other Natural Body o	f Water Reached By the Spill?
Forward This C	mpleted Form and All Other Documenta	tion and Pictures to the Public
	Works Superintendent	
	nager: 415.388.6393 ext 18	e Notifications As Indicated on Tab 5G:
⊠ Public Work	s Superintendent: 415.388.6393 ext 12	
RECOMMEND	DEGLEOW-UP ACTIONS TO PREVENT	FUTURE OCCURRANCES
<u> </u>		F LAST PM:
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	DATEO	F LAST PM: EANING SCHEDULE
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of the Spill & Cause NO ASSIGN STAFF TO POST **WARNING-RAW** SEWAGE" Signs/other NO means of warning to public **Can the Spill Be Contained?** in immediate area YES ACTIONS STEP **1. DIVERT AWAY FROM SENSITIVE AREAS** a. UNPLUGGED STORM DRAINS, SCHOOLS, DAYCARES, PLAYGROUNDS, INTERSECTIONS, ETC. → Cover unplugged storm drains with mats or use dirt or other diking material to divert away from sensitive areas 1 st b. ENSURE PUBLIC CONTACT DOES NOT OCCUR. Use cones/barricades for lane closures until spill can be completely removed **Diversion &** 2. CONTAIN SPILL & RETURN TO SYSTEM, IF POSSIBLE → Techniques: Containment → Install air plugs in storm drain catch basins & divert flow to catch basin → Build berm to channel flow to downstream manhole (barricade if you leave it open) → Use bypass pumps to pump around blockage until it can be removed → Divert to low area of ground where it can be collected later Use the appropriate cleaning equipment to the situation to hydroflush, rodder, or hand rod to clear a blockage. Make certain to either have the vactor setup at the downstream manhole or use a fork or trap at the outlet of the manhole in the channel to catch any debris that is released. 2nd -If using the rodder, set-up at the first dry manhole and run upstream until you hit the blockage. Blockage Once you break through the blockage, pull the rods and cleaning tools out. If you leave the rods Clearing in the line it could restrict the flow. Once the flow is back to normal, run the line to the next manhole. SEE TAB 6 FOR THE HYDROFLUSHING SOP ASSIGN STAFF TO BEGIN CLEANUP 1. Remove all signs of gross pollution (toilet paper, solids, grease, etc.) 2. Flush area w/metered water - Unless raining (3 times the amount of the spill, if possible) 3rd -a. Setup a berm or other means to contain all chlorinated flush water so that it can be Area Cleanup delivered to the sewer or removed with the vactor b. DO NOT USE ANY DISINFECTANT THAT MAY ENTER THE STORM DRAIN OR **OTHER WATER SUPPLY!** 1. Photograph the spill location and the area affected 4th --2. Complete the Sewage Overflow Report (Tab 5H) **Document &** 3. Complete the Proposition 65 Report Form (Tab 5I) Report 4. Go To Side 2 and follow the instructions

Perform Initial Evaluation



ATTACHMENT 4

Roto Rooter After-hours, Weekend, Holiday Response Checklist

12/03/2006 19:52 FAX 14158986074

ROTO ROOTER

Ø 001/001

MK 8/7/07

TRACKING # 4179

Roto Rooter After Hour / Weekend / Holiday Response Checklist 1) Stoppage Location: 335 ORNINESUN DA 2) Arrival Time: _ 10:00 AM/ PM 3) Notified District for Building Flooding: 4) Notified District for Spills over 1000 gallons: Yes / No Name 5) Sewer cleared within 1 hour; (Yes) No Name (Less than 5 gallons per minute) 6) Sewer cleared within 1 hour: Yes / No • • * (More than 5 gallons per minute) 7) Date & Time spill was detected: Date Date 9:507 MPM 8) Method used to clear stoppage: MAINLIN MACHINE 9) Cause of stoppage: WIPEG. FEMALE PRODUCTS 10) Gallons per minute: ______ 11) Estimated total gallons spilled: 40 g C 12) Where did spill drain to: _HILLSIDE 13) People who responded to the stoppage: 14) Is this a district problem? (If yes, charge 2hr minimum) 15) Is this a private lateral problem? (If yes, charge 1hr minimum) istrict Contract

Your MINOR report has been submitted on Monday, December 04, 2006,10:11:43 AM Your SSO Tracking Number: 4179 (Report ID : 16 Version : 1) Please write down your SSO Tracking Number, SSO Report ID and Version number for future

reference.

A confirmation email was sent to the Water Board Staff and these addresses: bbunce@tcsd.us, jnelson@tcsd.us

Return to Selection Menu

Logout

Automatic Notification Email Not Sent! Tried 2 times. Please manually email to jlam@waterboards.ca.gov, mchee@waterboards.ca.gov

With Subject :

SSO Submission Confirmation - submitted by Tamalpais - Report Type: minor

With Body : SSO Track Num: 4179 (SSO ID : 16 Version : 1) Spill Cause: BLOCKAGE Amount Spilled in Gal : 40 Report Type : minor Spill Date: 12/2/2006 Submit Date and Time: 12/4/2006 10:11 Attachments: Click on this link or visit it via your browser to review this SSO report: https://www.r2esmr.net/sso lookupreport.asp?user=admin&track=4179