



STAFF REPORT

SAUSALITO CITY COUNCIL

AGENDA TITLE:

Sewer Activity Report including consideration of Second Amendment to Agreement with RMC to extend the term of Flow Meter installation.

RECOMMENDED ACTION:

Receive Staff Report

Adopt a Resolution of the City Council of the City of Sausalito Authorizing Amendment No. 2 to the Professional Services Agreement with RMC Water and Environment

SUMMARY

The City of Sausalito owns and operates the Sanitary Sewer Collection system within its corporate limits. The Environment Protection Agency (EPA) performed an Operations Audit of the City Sewer Enterprise in August of 2007. In April of 2008 the EPA prepared a Notice of Violation and Order for Compliance which was subsequently amended in November, 2008 (Compliance Order). This Order was revised on November 24, 2008 and requires the City (along with the Sausalito-Marin City Sanitation District and the Tamalpais Community Services District – collectively the "Agencies") to perform a range of certain activities by certain milestone dates to remain in compliance with the Order. In accordance with the requirements of the Compliance Order the following actions have occurred:

- October 15, 2008 - Sewage Spill Reduction Action Plan – "SSRAP" submitted to the EPA, Comments on the SSRAP were received from the EPA on December 19, 2008.
- December 15, 2008 - Flow meters installed
- January 15, 2009 - Quarterly Overflow Report submitted to the EPA and the Regional Water Quality Control Board

In addition, the City is on track to meet the following requirements;

- April 15, 2009 - Submittal of the Pump Station Assessment and Collection System Condition Assessment Report.
 - February 17, 2009 – Respond to the EPA's comments on the SSRAP.
-

At its regular meeting of November 25, 2008, the City Council authorized RMC Water and Environment to install temporary flow meters by December 15, 2008 to meet EPA Compliance Order milestones. Under typical weather conditions two months of "wet season" data would be sufficient to enable a robust hydraulic assessment of the collection system. As such RMC was authorized to operate the meters until February 20, 2008. Because of the abnormally dry late December and January, insufficient wet weather flow data has been collected. As such staff seeks authorization to approve a change order to keep the meters installed for up to an additional two months. There are 9 temporary flow meters placed within the City's jurisdiction. If the meters are left in place for an additional two months the cost is estimated to be \$63,754. Staff and the Sewer Committee continues to coordinate with the other Agencies and RMC and will authorize de-mobilization of the metering effort if the objectives are accomplished prior to the end of the proposed two-month extension.

The purposes of this item are to: (1) brief the Council on the City's status under the Compliance Order and current activities; and (2) recommend that the Council authorize an amendment to the professional services agreement with RMC Water and Environment to augment the authorized budget in an amount not to exceed \$63,754.

BACKGROUND

An Audit of the City's sewer operation was performed by the EPA in August of 2007. In April of 2008 the City was co-named along with Tamalpais Community Services District (TCSD) and Sausalito Marin City Sanitary District (SMCSD) in a Notice of Violation and Order for Compliance by the EPA (Compliance Order). That Compliance Order was amended in November of 2008. Also in November of 2008 the City reached a settlement agreement with Northern California River Watch (River Watch) on a complaint alleging violation of the Clean Water Act. The Compliance Order and the River Watch Settlement require the City to perform sewer capital improvements (among other things) in an effort to reduce and eliminate, if possible, unpermitted discharges from the City's wastewater collection system. The three agencies worked diligently to jointly prepare the Sewage Spill Reduction Action Plan (SSRAP) that was submitted to the EPA on October 15, 2008. The agencies have continued to coordinate and cooperate to meet the other deadlines outlined in the Compliance Order.

One of the requirements of the Compliance Order called for the installation of flow meters in the sewer mains to collect information during wet weather periods. This information will help the City locate defects in the collection system that allow groundwater and/or stormwater to infiltrate into the sanitary sewer system. Flow meters will enable different areas of the sewer system to be evaluated for infiltration. The wettest time of the rainy season is typically from December 15 until February 15. The City Council authorized the installation of 9 flow meters on November 25, 2008 by amending the Agreement with RMC Water and Environment who was originally hired by the City, SMCSD and TCSD to prepare the SSRAP.

The Flow Meter Authorization was approved for an amount not to exceed \$63,754. To try to capture the 2008/09 rainy season flow meters were installed just before the December 15th deadline. While there have been some storm events since December 15th, the season, so far, has been drier than normal. The meters need to remain in place for a longer period of time to attempt to collect more storm event data. Staff recommends that the Council authorize extension of the flow meter operation until April 15, 2009. Meters will be removed before April 15 if enough data is collected. The minimum number of events is five. Staff seeks authorization for up to \$63,754 for an additional 8 weeks of installation.

Staff will make a power point presentation at the Council meeting on February 10th to discuss the deadlines and other activities related to the Sewer Enterprise. This information is also attached in a table called "City of Sausalito Sewer Activity Status Summary." The presentation will outline both current activities upcoming events.

FINANCIAL CONSIDERATIONS

None to the General Fund. The costs are incurred in the Sewer Fund. The Second Amendment, if approved, will increase the total authorized amount for flow monitoring to \$127,508. An amount of \$70,701 had been previously authorized by the City Council to complete the SSRAP. As such the total amount authorized with the original agreement and the two amendments is \$198,209. This amount exceeds the Supplemental Request amount of \$100,000 proposed in the 2009 Budget. There is sufficient reserve in the sewer fund to pay for this work. Staff recommends that an additional appropriation be made.

STAFF RECOMMENDATION

- Receive the Staff Report and provide staff direction
- Adopt Resolution of the City Council of the City of Sausalito Authorizing Amendment No. 2 to the Professional Services Agreement with RMC Water and Environment

ATTACHMENTS

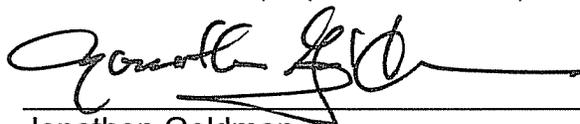
- Exhibit A – Compliance Order Deadline summary
- Exhibit B – City of Sausalito Sewer Activity Status Summary
- Exhibit C- EPA staff review comments to October 15, 2008 Joint Agency Report
- Exhibit D- January 15, Overflow Report
- Exhibit E- July 23, 2008 Agreement with RMC Water and Environment
- Exhibit F- Draft Amendment No. 2 to Prof Services Agreement
- Exhibit G- Resolution

REPORT PREPARED BY:



Todd Teachout, P.E.,
City Engineer

REVIEWED BY (Department Head):



Jonathon Goldman,
Director of Public Works

Item #: 602

Meeting Date: February 10, 2009

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REVIEWED BY (City Attorney):

Mary A. Wagner

Mary Wagner,
City Attorney

REVIEWED BY:

Charles Francis,
Interim Director of Finance

SUBMITTED BY:

Adam Politzer
City Manager

Item #: 60c
Meeting Date: February 10, 2009
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Region 9

Attachment 2: Finding of Violation and Amended Order
 Docket No. CWA-309(a)-08-000
 Timetable Listing of Requirements of Administrative Order

October 15, 2008

- II.A. Submit Sanitary Sewer Overflow Response Plan
- III.A.1. Submit Sanitary Sewer Cleaning and Root Control Plan
- III.8.1. Submit CMMS Implementation Plan
- III.D. Submit FOG Program Report
- IV.A.1. Submit Inspection and Assessment Plan
- IV.A.2. Submit Inspection Report
- IV.B.1. Submit Capacity Assessment Report and Install flow meters
- V.A. Submit and Implement Short-Term Contingency Plan
- VII. Submit Implementation Study Report

April 15, 2009

- III.A.1.e. Submit copies of sewer cleaning and root control contracts
- III.C.1. Submit Pump Station Report
- III.C.2. Submit Pump Station Certification
- III.C.3. Submit Pump Station Upgrade Plan

October 15, 2009

- III.B.1. Implement MMS
- III.B.2. Link MMS to GIS map
- IV.B.2. Submit Flow Monitoring Report

October 15, 2010

- IV.A.4. Submit Inspection and Condition Assessment Final Report
- IV.8.3. Submit Capacity Assessment Report
- V.8.1. Implement Capacity Assurance Improvements
- VI.A.1. Submit Infrastructure Renewal Plan

October 15, 2013

- V.B.2. Complete Short-term Improvements

Quarterly Spill Reports Due Each January 15, April 15, July 15, and October 15 beginning 2008:

- IX.A. Quarterly Spill Reports

Annual Reports Due Each October 15, beginning 2009:

- III.A.2. Sanitary Sewer Overflow Response Planning
- III.CA. Pump Station Reliability
- IV.A.3. Inspection and Condition Assessment Progress report
- IV.B.2. Flow Monitoring Reports
- VI. Infrastructure Renewal Program

City of Sausalito Sewer Activity Status Summary

(4/2008 to 10/2010 Time Frame)

Task	EPA Requirement	Riverwatch Commitment	Deadline	Status	Comment
Submit Sanitary Sewer Overflow Response Plan	Yes	Yes	10/15/2008	Completed*	
Submit Sanitary Sewer Cleaning and Root Control Plan	Yes	Yes	10/15/2008	Completed*	
Submit CMMS Implementation Plan	Yes	Yes	10/15/2008	Completed*	
Submit FOG Program Report	Yes	Yes	10/15/2008	Completed*	
Submit Inspection and Assessment Plan	Yes	Yes	10/15/2008	Completed*	
Submit Inspection Report	Yes	Yes	10/15/2008	Completed*	
Submit Capacity Assessment Report and Install flow meters	Yes	Yes	10/15/2008	Completed*	
Submit Implementation Study Report	Yes	Yes	10/15/2008	Completed*	
Install Flow Meters	Yes	Yes	12/15/2009	In-process	2/10/2009 Council Item
Quarterly Overflow Report	Yes	Yes	1/15/2009	Completed	Copy attached
Private Lateral Program		Yes	3/10/2009	In-process	2/24/2009 Council Item
Submit copies of sewer cleaning and root control contracts	Yes	Yes	4/15/2009	N/A	Sausalito performs cleaning in-house. TCSD-SMCSD require contract services
Submit Pump Station Report	Yes	Yes	4/15/2009		2/24/2009 Council Review

Submit Pump Station Certification	Yes	Yes	4/15/2009		2/24/2009 Council Review
Submit Pump Station Upgrade Plan	Yes	Yes	4/15/2009		2/24/2009 Council Review
Quarterly Overflow Report	Yes	Yes	4/15/2009	Future Task	
Quarterly Overflow Report	Yes	Yes	7/15/2009	Future Task	
Implement MMS	Yes	Yes	10/15/2009	Completed	Upgrades are under consideration
Link MMS to GIS map	Yes	Yes	10/15/2009	Completed	Upgrades are under consideration
Submit Flow Monitoring Report	Yes	Yes	10/15/2009	In-process	Requires 2009 rainy season Flow meter data
Quarterly Overflow Report	Yes	Yes	10/15/2009	Future Task	
Website Update to improve Overflow Reporting		Yes	12/10/2009	Completed	
Sewer Ordinance Amendment to compel inspection and correction of lateral in conjunction with CIP Sewer Work		Yes	12/10/2009	Future Task	
I & I Hot Spot Study		Yes	12/2010	Started	RMC Smoke Test – Report expected by 3/1/2009
Quarterly Overflow Report	Yes	Yes	1/15/2010	Future Task	
Quarterly Overflow Report	Yes	Yes	4/15/2010	Future Task	
Quarterly Overflow Report	Yes	Yes	7/15/2010	Future Task	
Submit Inspection and Condition Assessment Final Report	Yes	Yes	10/15/2010	Future Activity	Funding request will be included in 2010 Budget Discussions

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Submit Capacity Assessment Report	Yes	Yes	10/15/2010	Future Activity	Funding request will be included in 2010 Budget Discussions
Implement Capacity Assurance Improvements	Yes	Yes	10/15/2010	Future Activity	Funding request will be included in 2010 Budget Discussions
Submit Infrastructure Renewal Plan	Yes	Yes	10/15/2010	Future Activity	Funding request will be included in 2010 Budget Discussions
Quarterly Overflow Report	Yes	Yes	10/15/2010	Future Task	

* EPA issued a review letter on December 15, 2008 regarding the October 15, 2008 Sewage Spill Reduction Action Plan. Staff is working with TCSD & SMCSO to develop a joint response to be submitted by 2/17/2009

Submit Capacity Assessment Report	Yes	Yes	10/15/2010	Future Activity	Funding request will be included in 2010 Budget Discussions
Implement Capacity Assurance Improvements	Yes	Yes	10/15/2010	Future Activity	Funding request will be included in 2010 Budget Discussions
Submit Infrastructure Renewal Plan	Yes	Yes	10/15/2010	Future Activity	Funding request will be included in 2010 Budget Discussions
Quarterly Overflow Report	Yes	Yes	10/15/2010	Future Task	

* EPA issued a review letter on December 15, 2008 regarding the October 15, 2008 Sewage Spill Reduction Action Plan. Staff is working with TCSD & SMCSO to develop a joint response to be submitted by 2/17/2009

Comments on the Sewage Spill Reduction Action Plan dated October 15, 2008

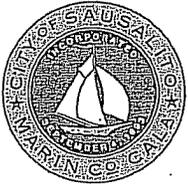
1. Section 3. Does not include written procedures for repairing sewer pipes in easements, as required by Paragraph III.A.1.c. of the Order.
2. Section 3.2. No discussion of meeting requirements for routine cleaning (30% of system pipe mileage per year) schedules. If addressed by individual agency in a separate section, perhaps a section or page reference could be given.
3. Section 3.2.1. How are the changes to the cleaning frequencies determined?
4. Section 3.2.1.3. Is there a standard way to evaluate whether the cleaning removes light, medium, or heavy amounts of roots, grease, or debris?
5. Section 3.3.1.1. The "banking" concept can be utilized only as long as the miles actually cleaned during the year are not less than 30% of the system the first year, 30% the second year, and complete cleaning of all pipes by the end of the third year, as required under Paragraph III.A.1. of the Order. CCTV inspection, for the purpose of Paragraph III.A of the Order, is not a substitute for cleaning.
6. Section 3.3.1.2. This section states that cleaning schedules are adjusted per Section 3.2.1. but that section does not discuss how the changes to cleaning frequency are determined.
7. Figure 3-3. The Figure depicts 3 month, 36 month, and regular cleaning intervals, which does not appear to match the text in Section 3.3.1.2. that states that there are 1 month, 3 month, 6 month, 12 month, 24 month, and 36 month hot spot cleaning frequencies.
8. Section 3.3.1.4. Are there any preventative root control programs? If so, describe.
9. Section 3.3.2. Describe not just the capabilities of the MMS, but the features currently in use by the District.
10. Figure 3-6. Is the grease cleaning program different from the hot spot cleaning program? If so, describe in the text.
11. Section 3.4.1.1. The "banking" concept can be utilized only as long as the miles actually cleaned during the year are not less than 30% of the system the first year, 30% the second year, and complete cleaning of all pipes by the end of the third year, as required under Paragraph III.A.1. of the Order. CCTV inspection, for the purpose of Paragraph III.A of the Order, is not a substitute for cleaning.
12. Section 3.4.3.3. Describe any preventative grease control programs; the programs described in this section are reactive.
13. Section 3.5.1.1. The "banking" concept can be utilized only as long as the miles actually cleaned during the year are not less than 30% of the system the first year, 30% the second year, and complete cleaning of all pipes by the end of the third year, as required under Paragraph III.A.1. of the Order. CCTV inspection, for the purpose of Paragraph III.A of the Order, is not a substitute for cleaning.
14. Section 3.5.1.1. Under the "Future Cleaning" paragraph, it should be clarified that pipes with known maintenance issues are referred into the hot spot program and assigned a recommended cleaning frequency prior to completion of the first three-year cleaning cycle.
15. Section 3.5.2. Describe not just the capabilities of the MMS, but the features currently in use by the City.

16. Section 4.2.2.1. For future planned SMCS D inspections, is there an advantage to using VHS recording over digital recording? Are both equal? Can inspection data and images be incorporated into the MMS?
17. Section 4.3.2.1. For future planned TCSD inspections, is there an advantage to using VHS recording over digital recording? Are both equal? Can inspection data and images be incorporated into the MMS?
18. Section 4.4.2.1. For future planned Sausalito inspections, is there an advantage to using VHS recording over digital recording? Are both equal? Can inspection data and images be incorporated into the existing MMS?
19. Section 5.1.3. Are the permanent flow meters of adequate capacity so as to accurately measure peak wet weather flows?
20. Section 5.1.3. Will flow data collected in earlier years be used in development of the plan?
21. Section 5.2.2. How is the plan to collect data only during the wet weather season expected to accurately fulfill the requirement of Paragraph V.B.2. of the Order, to report annually the average dry weather flow?
22. Section 5.2.2. The plan must include the details of the monitoring plan, e.g., number of meters, number of rain gauges, locations of meters and rain gauges, sizing, frequency data is collected and downloaded, etc. In addition, discuss the rationale for selecting numbers and locations of meters and gauges.
23. Section 6.2. The SOPs should be incorporated into the revision of this plan.
24. Section 6.2. When EPA and the agencies met in August 2008, it was mentioned that the agencies had considered a potential plan to station trucks or pumps at manholes prone to overflow when heavy rainfall was predicted. If this remains a viable short-term contingency plan, it should be described in detail here.
25. Section 6.2. Bullet three requires more detail. When and how frequently will this occur? Will there be any residential outreach regarding proper disposal of cooking grease and oil? When and how frequently will this occur?
26. Section 7.2.1. Unless the agencies are all sharing the same spill responders, it might be difficult to compare achievement of spill response goal.
27. Section 7.2.2. Have the three agencies developed a plan for sharing resources and determined whether there are potential benefits to the agencies?
28. Section 7.2.3. Have the agencies considered contracting for capital improvements jointly to potentially benefit from economy of scale?
29. Appendix A. The Amended Order for Compliance was signed on November 24, 2008 and can be incorporated into the revised plan.
30. Appendix B, Section 1.2. Last bullet should include public and regulatory agency notification.
31. Appendix B, Section 2.1.2. What does the answering service do if the person designated to be "on call" isn't reached immediately?
32. Appendix B, Section 2.2. Can the SCADA system be accessed remotely? At what point must staff respond?
33. Appendix B, Section 3.4. Paragraph II.A.i. of the (first) Order refers to a 30-minute response time. What this means is that a responder will be on site within 30 minutes from the time the call is received. This section implies that the 30-minute response time goal is met if the responder departs his/her home within 30 minutes. This does not fulfill

the response time requirement of the (first) Order. The Amended Order, signed November 24, 2008 requires a 30-minute response. Based on our discussions in August 2008, we agreed that this interpretation of response time is responsive to the Amended Order.

34. Appendix B, Section 3.6. Would the First Responder have equipment necessary for containment or pumping around a blockage?
35. Appendix B, Section 4.2. Define the categories of spills that the District is able to handle with its resources, and what is beyond the district's response capability.
36. Appendix B, Section 4.2.5. Explain the conditions under which sampling might not be expected to provide meaningful results.
37. Appendix B, Section 4.3. The wording of the sixth bullet is confusing – "Collect water sample just below the surface in knee deep water, approximately 3 feet deep..." Knee-deep water is more likely to be closer to two feet, not three feet deep. What is done if the water body is less than knee deep, for example, a shallow creek? Are storm drains sampled? Storm drain outlets?
38. Appendix B, Section 4.5. Shouldn't CCTV inspection following a blockage considered a follow-up activity to a spill?
39. Appendix B, Section 5. List the requirements, resources, and procedures for public notification.
40. Appendix B, Section 6. There must be some discussion on collecting adequate information to properly document the spill. This may include photographs, calculation estimated spill volume, estimated volume recovered, time estimates, etc.
41. Appendix B, Section 6.1.1. Does the CCTV refer to all footage available for that particular pipe?
42. Appendix B, Section 6.1.2. Under what conditions is Failure Analysis advised? Who makes the determination and when is it made? Is Failure Analysis done by District staff, or outside contractor?
43. Appendix B, Section 7. Inventory should include the spill response equipment available to the District, how much, and the physical location. This should include safety and traffic control equipment, materials used to pump around spills, materials for emergency repairs, signage, etc. Also include contents of spill kits in District vehicles, as applicable.
44. Appendix B, Section 8.1. Section should include the plan for this training. Who will provide the training, and when is it scheduled to occur?
45. Appendix B, Appendix 1. If a spill requires contract resources, is District staff required to remain at the spill site to observe or provide oversight? If the District is collaborating with other nearby sewerage agencies, would any of these agencies be called to assist?
46. Appendix B, Appendix 2. List indicates small tanker trucks and large tanker trucks both contain 5,000 gallons. Are any of these trucks capable of vacuuming spills?
47. Appendix B, Appendix 9. List should indicate number and size of bypass pumps, also list amount of bypass hose. Is the available equipment sufficient to respond to a spill from the largest pipes in the system? If not, contingency planning must be done for the possibility of a large spill. Is Roy's the only contractor who would be called to respond to a spill? If not, list additional spill response equipment available. Would any nearby sewerage agencies be called to assist? If so, it is advisable to be aware of all available resources.
48. Appendix C, Section 3.4. See comment 33 above. Revise to relate to the 30-minute response requirement of the Order.

49. Appendix C, Section 3.6. Would the First Responder have equipment necessary for containment or pumping around a blockage?
50. Appendix C, Section 4.2. Define the categories of spills that the District is able to handle with its resources, and what is beyond the district's response capability.
51. Appendix C, Section 4.2.5. Explain the conditions under which sampling might not be expected to provide meaningful results.
52. Appendix C, Section 4.3. See comment 37 above.
53. Appendix C, Section 4.5. See comment 38 above.
54. Appendix C, Section 5. See comment 39 above.
55. Appendix C, Section 6. See comment 40 above.
56. Appendix C, Section 6.1.1. See comment 41 above.
57. Appendix C, Section 6.12. See comment 42 above.
58. Appendix C, Section 7. See comment 43 above. Is any of the District's equipment available to either SMCS D or the City of Sausalito in an emergency?
59. Appendix C, Section 8.1. See comment 44 above.
60. Appendix C, Appendix 1. See comment 45 above.
61. Appendix C, Appendix 2. See comment 46 above.
62. Appendix C, Appendix 9. List should indicate number and size of bypass pumps, also list amount of bypass hose. Is the available equipment sufficient to respond to a spill from the largest pipes in the system? If not, contingency planning must be done for the possibility of a large spill. Although it seems to be reasonably well-equipped, is Roto-Rooter the only entity who would be called to assist in the response to a spill? If not, list additional spill response equipment available. Would any nearby sewerage agencies be called to assist? If so, it is advisable to be aware of all available resources.
63. Appendix D, Section 3.6. Would the First Responder have equipment necessary for containment or pumping around a blockage?
64. Appendix D, Section 4.2. See comment 35 above.
65. Appendix D, Section 4.2.5. See comment 36 above.
66. Appendix D, Section 4.3. See comment 37 above.
67. Appendix D, Section 4.5. See comment 38 above.
68. Appendix D, Section 5. See comment 39 above.
69. Appendix D, Section 6. See comment 40 above.
70. Appendix D, Section 6.1.1. See comment 41 above.
71. Appendix D, Section 6.12. See comment 42 above.
72. Appendix D, Section 7. See comment 43 above. Is any of the City's equipment available to either TCSD or the SMCS D in an emergency?
73. Appendix D, Table 7-1. Table appears to have an incorrect title.
74. Appendix D, Section 8.1. See comment 44 above.
75. Appendix D, Appendix 1. See comment 45 above.
76. Appendix D, Appendix 2. See comment 46 above.
77. Appendix D, Appendix 3. Personal telephone numbers should all be redacted.
78. Appendix D, Appendix 9. See comment 47 above.



CITY OF SAUSALITO

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January 15, 200~~8~~⁹

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US Environmental Protection Agency
Region 9
75 Hawthorne Street (WTR-7)
San Francisco, CA 94105

Michael Chee
San Francisco Bay Region
California Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

**SUBJECT: CITY OF SAUSALITO QUARTERLY SEWAGE SPILL REPORT
OCTOBER 1 THROUGH DECEMBER 31, 2008
USEPA Amended Order for Compliance
Docket No CWA-309(a)-08-031 dated November 24, 2008**

Dear Ms. Cola and Mr. Chee:

Section IX of USEPA Region IX Findings of Violation and Amended Order for Compliance (Docket No CWA-309(a)-08-031) dated November 24, 2008 (the "2008 Amended Order") requires the City of Sausalito, Sausalito-Marin City Sanitary District and Tamalpais Community Services District to submit (on the 15th of January, April, July, and October), a tabulation of all sewage spills that occurred during the previous calendar quarter. This is the Report for the City of Sausalito for the calendar quarter beginning October 1, 2008 and ending December 31, 2008. Pursuant to Discharge Requirements for Sanitary Sewer Systems Order No. 2006-0003-DWQ (the "2006 Order"), the City reported to the Regional Water Quality Control Board, San Francisco Bay Region on sanitary sewer overflows ("SSOs") for calendar 2007 in March, 2008. For purposes of this Report, the City refers to sewage spills as SSOs.

FAX NUMBERS:

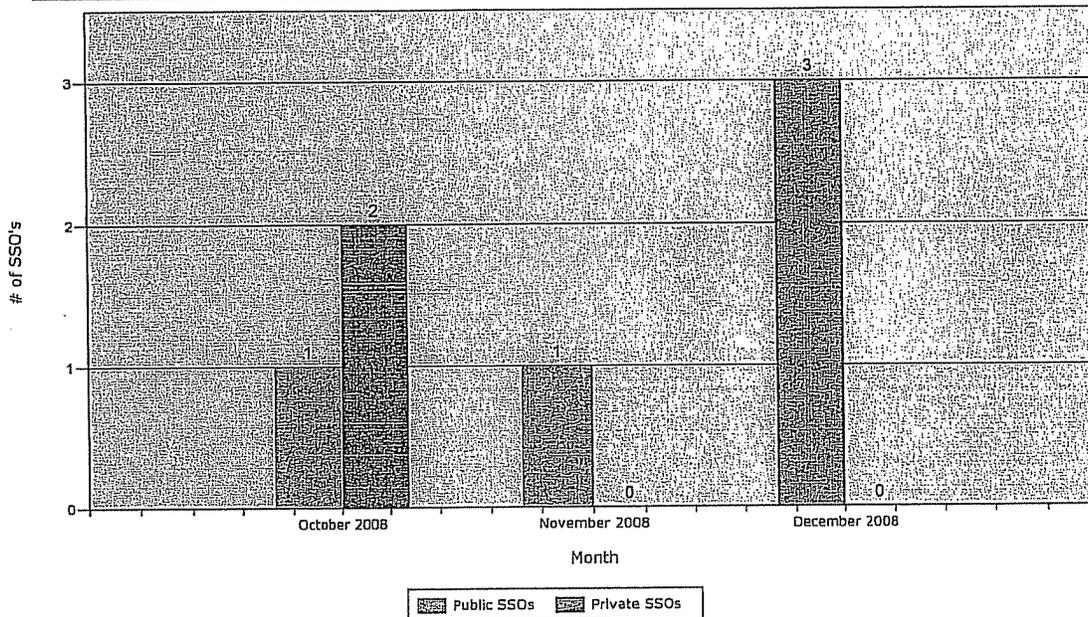
Administration: (415) 289-4167
Recreation: (415) 289-4189

Community Development: (415) 339-2256

Library: (415) 331-7943
Public Works: (415) 289-4138

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Graphic Summary of Number and Chronology of SSOs -- October 1, 2008 - December 31, 2008



Number and Volume of SSOs -- October 1, 2008 - December 31, 2008

Table 1. Number of SSOs

Size of SSO (gallons)	Public SSO's	Public %	Private SSO's	Private %	Total SSO's	% of Total
Greater than or equal to 1,000	0	0%	0	0	0	0%
From 100 to 999	4	80% ¹	1	20% ¹	5	71% ²
From 10 to 99	1	50% ¹	1	50% ¹	2	29% ²
Less than 10 [can include in line above]	0	0	0	0	0	0%
[Public portion of lateral (if applicable)]	NA	NA	NA	NA	NA	NA
Total	5		2		7	100%

Notes: (1) Percentages calculated by responsibility and size category, i.e., 80% of the number of SSOs of 100-999 gallons were public, and 20% private.
 (2) Percentages calculated by size category, i.e., the number of SSOs of 100-999 gallons were 71% of the total number of SSOs during the reporting period.

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

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Table 2. Volume of SSOs

	Public SSO Volume (gallons)	Public %	Private SSO Volume (gallons)	Private %
Total volume contained and returned to sewer system for treatment	0	0%	0%	0%
Total volume reaching waters of the State	800	72% ¹	1,078	100% ¹
Total volume not contained but not reaching waters of the State (everything else)	308	28% ¹	0%	0%
Total	1,108	100%	1,078	100%

Notes: (1) Percentages calculated by responsibility and volume, i.e., 72% of the volume of public SSOs reached the waters of the State, and 100% of the volume of private.

Cause of SSOs -- October 1, 2008 - December 31, 2008

The predominant cause of SSOs during the period of this report was blockages resulting from roots and debris. One instance of infrastructure (private line) failure occurred. The distribution of SSOs by cause is shown in Table 3 below.

Table 3. Causes of SSOs

Cause of SSO	Public SSO	Public %	Private SSO	Private %
Blockage:				
Roots	4	80% ¹	1	100% ¹
Grease				
Cleaning Rags (hand towels, Swiffer® Cleaning Pads)	1	20% ¹		
Debris				
Debris from Laterals				
Vandalism				
Animal Carcass				
Construction Debris				
Multiple Causes				
Subtotal for Blockage	5	100%²	1	50%²
Infrastructure Failure			1	100% ¹
Inflow & Infiltration				
Electrical Power Failure				

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Jo Ann Cola
 US Environmental Protection Agency, Region IX
 Michael Chee
 California Regional Water Quality Control Board, San Francisco Bay Region
 January 15, 2008

Cause of SSO	Public SSO	Public %	Private SSO	Private %
Flow Capacity Deficiency				
Natural Disaster				
Bypass				
Cause Unknown				
Total	5	100%	2	100%

- Notes: (1) Percentages calculated by responsibility and cause, i.e., 80% of the number of public blockage SSOs were caused by roots, and 100% of the private.
 (2) Percentages calculated by responsibility and cause category, i.e., 100% of the number of public SSOs were caused by blockages, and 50% of the number of private.

Location of SSOs -- October 1, 2008 - December 31, 2008

Most overflows during the reporting period occurred in steep to mixed terrains. The locations, dates and other pertinent information regarding the SSOs that occurred during the reporting period are included in Table 4 and graphically summarized on the attached Figure 1.

Table 4. Locations of SSOs -- October 1, 2008 - December 31, 2008

Key Number (see Figure 1 attached)	Date	Line Segment	Destination	Public (SS) or Private (PVT)
1	10/3/2008	Map S7 Un-numbered rodhole 30' - MH 120620 #35 Central Ave + st North St	Unpaved surface	SS
2	10/13/2008	Map No. S7 # 558 Bridgeway Horizons Restaurant + st Princess St.	SF Bay	PVT
3	10/23/2008	Map No. S7# 655 Sausalito Blvd + st Spencer Ave	Storm Drain	PVT
4	11/5/2008	Map No. S9 MH No's 100406 - 100405 # 96 Marion Way + st South St	paved surface 100' then meander to SD	SS
5	12/5/2008	Map S4 MH's 310196 - 310195 # 234 Currey Lane + st Crescenta Drive	Unpaved surface	SS
6	12/8/2008	MH 121402 -121401 Map S7 # 639 Sausalito Blvd + st Sunshine Ave	Gutter to Storm Drain	SS
7	12/13/2008	MH 120402 -120421 Map S7-S9 # 310 4th Street + st North St	Paved Surface	SS

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SSO Mitigation Efforts by the City of Sausalito -- October 2008 - December 2008

When an SSO occurs; the particular information regarding when, where and why the SSO occurred are reported in compliance with the 2006 Order and logged into the City's ICOMMM, Inc. sewer system management software ("ICOM3™") as a report and carefully evaluated to determine an appropriate course of action. The goal is to prevent future spills at the same or similar locations from the same causes. The ICOM3™ report includes an assessment as to how often and which method of cleaning will be most effective or identification of a site for priority repair by the City or the responsible private entity.

Overflows occurred from the publicly-owned collection system at five (5) locations during the reporting period as summarized above and on the attached Figure 1. One of the "system items" (components of the public sewer system) has been replaced and is not expected to become obstructed again due to the prior causes. Six-inch diameter main line from un-numbered collection system rodhole to manhole 120620 (Map No. S7) was replaced as of December 19, 2008. Thirty (30) linear feet of pipeline was replaced using C900 PVC, and it is anticipated that this repair will eliminate the re-occurrence of SSO's from this system item and this location (the location of key number 1 above and on Figure 1, #35 Central Ave.)

In addition to the above mentioned repair, repairs during the reporting period were also made at three other "hot spots" identified on the basis of recurrent SSOs or other problems identified during maintenance. Those consist of:

- 2 spot repairs to the sanitary sewer
- 1 new manhole installation

Two (2) private SSO's occurred during the reporting period and were mitigated. The locations, causes and corrective actions are as follows:

- 558 Bridgeway, Sausalito Horizons Restaurant: Repair made to lower lateral at failed joint (key location 2)
- 655 Sausalito Blvd, Sausalito: Blockage in lateral caused by roots – rodded (key location 3).

These corrective measures were performed in cooperation with other local and regional agencies.

For the quarter ended December 31, 2008 eight (8) private laterals have been repaired or replaced as a result of the City's existing private lateral program. As indicated above, the City promptly identifies the cause and prioritizes either for repair, replacement or increased maintenance frequency when any blockage or SSO involves the public system. Further, a potentially significant number of the private sewer laterals in the City of Sausalito are known to be old and may be in need of repairs. Since 1991¹, the City of Sausalito has had a program requiring the inspection and repair of private sewer laterals upon sale or major remodel of habitable structures. In Sausalito, laterals are privately-owned from the structure to the final termination point (including the wye) at the City Sanitary Sewer main line. Actions

¹ Copies of the Sausalito Municipal Code are publically accessible at <http://www.ci.sausalito.ca.us/Index.aspx?page=121>, as is a copy of the City's promulgated administrative interpretation of the relevant code section at <http://www.ci.sausalito.ca.us/Modules/ShowDocument.aspx?documentid=265>.

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Jo Ann Cola
US Environmental Protection Agency, Region IX
Michael Chee
California Regional Water Quality Control Board, San Francisco Bay Region
January 15, 2008

that trigger the mandatory inspection are either home (or building) sale or major remodel work (including, but not limited to, an improvement value of \$50,000 or more). As the need for repairs is identified on the basis of those inspections, performance of maintenance or repair is required by the City as a condition of certificate of occupancy or recordation of transfer of deed. The City's criteria for requiring such maintenance or repair is expressed in the Ordinance and Council Administrative Interpretation (*ibid.*) to eliminate infiltration of pollutants into the groundwater, or surface water including Richardson's Bay. This has been a very successful program. The City is in the process of developing improvements to the existing private lateral program to expedite identification and repair of private facilities to prevent discharge of pollutants to waters of the State.

Other Information

On February 26, 2008 the Sausalito City Council authorized the purchase of a Mobile Combination Sewer Cleaning Vehicle (3-yard Vactor®). This vehicle entered service in the 3rd week of November, 2008. This apparatus is a major asset improving the City of Sausalito's ability to capture SSO's and comply with Section II.A.2 of the 2008 Amended Order requiring procedures to ensure (among other things) containment, maximum recovery and cleanup of spilled sewage.

During the reporting period, the City of Sausalito contracted with Associated Laboratories of Orange, California to test and report Schedule 1 and Schedule 2 Waste Acceptance Profiles from samples of solid debris collected by the City during initial maintenance of its sewer system using the new cleaning apparatus. On the basis of these waste profiles, the City will ensure that solid debris produced during maintenance that cannot be treated by the Sausalito-Marín City Sanitation District is properly stored and disposed at appropriately-permitted sanitary landfill(s).

Jo Ann Cola
US Environmental Protection Agency, Region IX
Michael Chee
California Regional Water Quality Control Board, San Francisco Bay Region
January 15, 2008

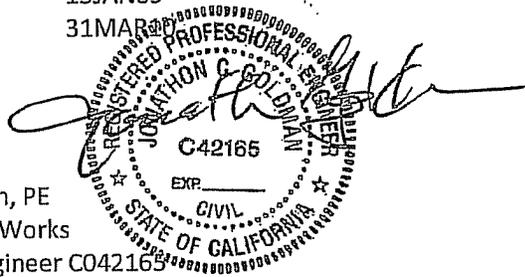
Certification

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
City of Sausalito



Todd Teachout, PE
City Engineer
California Civil Engineer C043056
Sealed 15JAN09
Expires 31MAR09



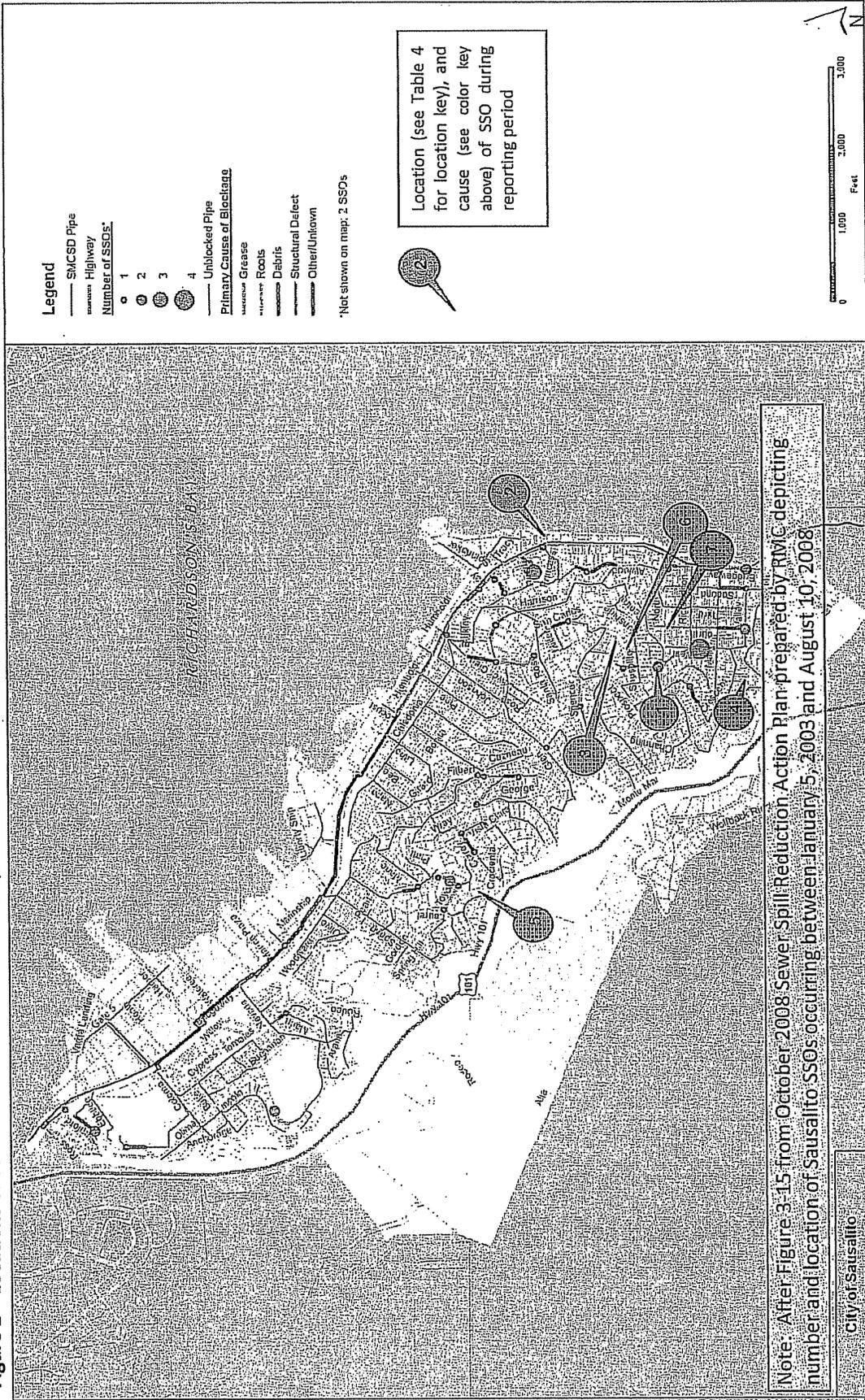
Jonathon Goldman, PE
Director of Public Works
California Civil Engineer C042165
Sealed 15JAN09
Expires 31MAR11

Attachment

cc: Bob Simmons – SMCS
Jon Elam – TCS
Steve Clary – RMC
Vivian Housen – West Yost Associates
Adam Politzer – City Manager
Mary Wagner – City Attorney
File – EPA Order Compliance 2009

Attachment to City of Sausalito's Report to
 Jo Ann Cola
 US Environmental Protection Agency, Region IX
 Michael Chee
 California Regional Water Quality Control Board, San Francisco Bay Region
 Dated January 15, 2008

Figure 1 -- Locations of SSOs -- October 1 -- December 31, 2008 with Historic Data Since 2003



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RESOLUTION NO. ____

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SAUSALITO APPROVING
CHANGE ORDER NO. 1 TO FIRST AMENDMENT TO PROFESSIONAL SERVICES
AGREEMENT WITH SAUSALITO-MARIN CITY SANITARY DISTRICT AND CITY OF
SAUSALITO ON ONE HAND AND RMC WATER AND ENVIRONMENT ON THE OTHER
FOR FLOW MONITORING PROGRAM**

WHEREAS, the City of Sausalito together with Sausalito Marin City Sanitary District entered into a First Amendment to Professional Services Agreement with RMC Water and Environment to begin a flow monitoring program consisting of installing temporary flow meters around the City, and

WHEREAS, installing flow meters is necessary to comply with EPA Notice of Violation and Order for Compliance, Docket No.:CWA-309(a)-08-031 which requires a flow monitoring program to identify sources of sewer infiltration, and

WHEREAS, flow monitoring was scheduled to be performed between December 15, 2008 and February 15, 2009 to capture wet weather flow information during the normally wettest time of the year, and

WHEREAS, flow meters were installed before December 15, 2008, and

WHEREAS, the weather in the region has been unusually mild resulting in inadequate wet weather flow data between December 15, 2008 and February 15, 2009 necessitating that the flow meters remain in place for a longer period of time.

WHEREAS, the rainy season can last until April 15 of a given year, and

WHEREAS, the cost to install flow monitoring for the original 63 day period from December to February was estimated to be \$63,754 for 9 locations which results in a daily cost of \$1,012, and

WHEREAS, to have the meters remain until April 15 will require the meters to remain in place for up to an additional 58 days which represents up to \$58,695 or 192% increase above original estimates, and

WHEREAS, the City adopted Change Order Policy requiring City Council Authorization for amounts over \$15,000, and

WHEREAS, failure to collect this data, now, could jeopardize the City's ability to comply with the Flow Monitoring and Capacity Assurance requirements within the EPA Order for Compliance, and

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DRAFT – SUBJECT TO FURTHER REVIEW AND NEGOTIATION

SECOND

This ~~FIRST~~ AMENDMENT TO PROFESSIONAL/CONSULTING SERVICES AGREEMENT, (this "Amendment") is made and entered into this ____th day of ~~November~~, 2009, by and between the SAUSALITO-MARIN CITY SANITARY DISTRICT (hereinafter SMCSO), and CITY OF SAUSALITO, (hereinafter "City") and from time to time SMCSO and CITY may be referred to as "agency" and together as "Agencies") on one one hand, and RMC WATER AND ENVIRONMENT (Tax I.D. No. 94-3295096)(hereinafter referred to as "RMC", and together with the Agencies, the "Parties") on the other.

RECITALS

The following Recitals are a substantive part of this Agreement:

- A. Parties entered into a Professional/Consulting Services Agreement dated as of July 23, 2008 (the "Agreement"). Pursuant to the Agreement, the RMC provides the Agencies with certain services related to preparing a response to USEPA Compliance Order CWA-309(a)-08-031.
- B. The Agencies wish to continue to utilize RMC to provide Flow Metering installation and Capacity Assessment services by December 15, 2008 as proposed in Sewage Spill Reduction Plan Docket No. CWA-309(a)-08-031, dated October 15, 2008 and further described below.
- C. Agencies and RMC desire to enter into this Amendment to include the provision of such services.

In consideration of the mutual promises contained herein, the parties hereto agree as follows:

Exhibit "A" is amended to increase the amount of the agreement to \$_____ for the original scope. Exhibit "A" is further amended to increase the amount of the agreement by \$123,508 of which is divided into \$63,754 for Sausalito, \$48,031 for Tamalpais Community Services District, and \$13,723 for SMCSO. Full breakdown of services is described in Attachment B. The Cost allocation is divided according to the new metering sites as described in Attachment A-1

Exhibit C of the Agreement is hereby amended to add services described here in Attachment 1 of this amendment.

Section 3. Effect on Agreement.

Except as expressly set forth herein, the terms and conditions of the Agreement shall remain in full force and effect. In the event of any inconsistency between the Agreement and this Amendment, the terms of this Amendment shall control.

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DRAFT – SUBJECT TO FURTHER REVIEW AND NEGOTIATION

Section 4. Entire Agreement; Conflicts.

This Amendment and the Agreement contain the entire agreement between the parties with respect to the subject matter hereof. Except as otherwise specified herein, no prior oral or written understanding shall be of any force or effect with respect to those matters covered herein. This Amendment and the Agreement shall not be modified or altered except in writing signed by both parties.

In Witness Whereof, Agencies and RMC have executed this Amendment as of the date first written above.

City of Sausalito- "CITY"

"RMC"

By: Adam W. Politzer
Its: City Manager

By: Stephen Clary, P.E., Vice President

approved as to form:

By: Gisa Ju, P.E., Vice President

Mary Anne Wagner
City Attorney

Sausalito-Marin City Sanitary District

By: Robert A. Simmons, General Manager

ATTEST:

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DRAFT – SUBJECT TO FURTHER REVIEW AND NEGOTIATION

ATTACHMENT A
SCOPE OF SERVICES

This exhibit describes RMC's scope of services for conducting a temporary flow monitoring program in the collection systems of the Sausalito-Marin City Sanitary District (SMCSD), City of Sausalito (Sausalito), and the Tamalpais Community Services District (TCSD). The purpose of the program is to satisfy requirements of Sections IV.B.1 and IV.B.2 of the Order for Compliance (Order) issued by the U.S. EPA to SMCSD and its tributary agencies and to collect data that can be used for capacity assessment and infiltration/inflow (I/I) analysis as required under Section IV.B.3 of the Order.

PROGRAM DESCRIPTION

The flow monitoring program will consist of installation of temporary flow meters in the SMCSD system (for purposes of this project, the "SMCSD system" refers to all sewer system facilities, including pipelines and pump stations, owned and operated by SMCSD, Sausalito, and TCSD). The program will also utilize data from permanent flow meters at SMCSD's Locust Street, Main Street, and Marin City Pump Stations, and TCSD's Bell Lane Pump Station.

The permanent meters in the SMCSD system are assumed to satisfy the requirements of Section IV.B.1 of the Order, which requires that the agencies install flow meters by October 15, 2008, to assess average and peak dry and wet weather flow rates generated from the overall service area of each agency. An additional 8 to 20 meters, as well as two recording rain gauges, will be installed throughout the collection systems to capture flows and rainfall during the wet weather season and further isolate each agency's flows. The details of the proposed flow monitoring program are described in Section 5 of the Sewage Spill Reduction Action Plan prepared by RMC for the SMCSD agencies in response to the EPA Order. Attachment A-1 to this Exhibit lists the preliminary flow monitoring sites.

SCOPE OF WORK

RMC's scope of work for the temporary flow monitoring program is described in the tasks below. RMC will subcontract with an experienced flow monitoring firm for conducting the flow monitoring field work. RMC will be responsible for coordination of the flow monitoring work, review of the collected data, and preparation of a summary report providing the results of the flow monitoring as required to be submitted to EPA by October 15, 2009.

SMCSD, Sausalito, and TCSD will be responsible for providing assistance as needed to locate and access proposed meter sites. SMCSD shall also provide flow data in electronic format from the permanent monitoring stations.

Task 1 – Conduct Flow Monitoring Program

RMC's flow monitoring subcontractor will conduct a field reconnaissance to evaluate each proposed flow monitoring site with respect to access, traffic control requirements, and hydraulic

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DRAFT – SUBJECT TO FURTHER REVIEW AND NEGOTIATION

suitability. Based on the field reconnaissance, the sites for some meters may need to be changed from the original proposed sites.

Metering equipment will be selected as appropriate for the identified monitoring sites. Meters in gravity sewers will be capable of recording both flow depth and velocity under both partial flow and full pipe (surcharged) conditions. Pump station sites will be metered by pump runtime recorders calibrated by drawdown testing, or by clamp-on force main meters. It is assumed that SMCS D staff will provide access and assistance as needed for installation of the pump recorders and conducting the drawdown tests for SMCS D and Sausalito pump stations.

The temporary meters and rain gauges will be installed by December 15, 2008. The meters will remain in place for a period of 60 days from date of last meter installation. The monitoring period can be extended on a weekly basis at the SMCS D agencies' direction should insufficient rainfall occur during the two-month wet weather monitoring period. The meters will be visited every 7 to 10 days for maintenance, calibration, and interrogation, and removed at the conclusion of the monitoring period.

RMC shall review the flow monitoring data collected on a regular basis during the flow monitoring period. Any suspect data or anomalies will be reported to the flow monitoring subcontractor for investigation.

Task 2 – Summarize Data and Prepare Flow Monitoring Report

RMC will analyze the collected flow data to determine average and peak dry-weather flows and peak wet weather flows from each agency and monitored sewer basin. RMC will prepare a draft flow monitoring summary report that will include plots and summary tables of the flow monitoring data, summary of the storm events that occurred during the monitoring period, and summaries of average and peak flows and peaking factors. Detailed I/I analysis, projection of flows to a "design storm" condition, and capacity assessment of the system are not included in this scope of work.

Task 3 – Project Management and Coordination

RMC shall monitor project status, budget, and schedule on an on-going basis. Up to three meetings with agency staff will be held during the course of the flow monitoring program, including a kickoff meeting and a final meeting to review the flow monitoring data, results, and draft report.

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ATTACHMENT A SCOPE OF SERVICES

This exhibit describes RMC's scope of services for conducting a temporary flow monitoring program in the collection systems of the Sausalito-Marin City Sanitary District (SMCSD), City of Sausalito (Sausalito), and the Tamalpais Community Services District (TCSD). The purpose of the program is to satisfy requirements of Sections IV.B.1 and IV.B.2 of the Order for Compliance (Order) issued by the U.S. EPA to SMCSD and its tributary agencies and to collect data that can be used for capacity assessment and infiltration/inflow (I/I) analysis as required under Section IV.B.3 of the Order.

PROGRAM DESCRIPTION

The flow monitoring program will consist of installation of temporary flow meters in the SMCSD system (for purposes of this project, the "SMCSD system" refers to all sewer system facilities, including pipelines and pump stations, owned and operated by SMCSD, Sausalito, and TCSD). The program will also utilize data from permanent flow meters at SMCSD's Locust Street, Main Street, and Marin City Pump Stations, and TCSD's Bell Lane Pump Station.

The permanent meters in the SMCSD system are assumed to satisfy the requirements of Section IV.B.1 of the Order, which requires that the agencies install flow meters by October 15, 2008, to assess average and peak dry and wet weather flow rates generated from the overall service area of each agency. An additional 18 to 20 meters, as well as two recording rain gauges, will be installed throughout the collection systems to capture flows and rainfall during the wet weather season and further isolate each agency's flows. The details of the proposed flow monitoring program are described in Section 5 of the Sewage Spill Reduction Action Plan prepared by RMC for the SMCSD agencies in response to the EPA Order. Attachment A-1 to this Exhibit lists the preliminary flow monitoring sites.

SCOPE OF WORK

RMC's scope of work for the temporary flow monitoring program is described in the tasks below. RMC will subcontract with an experienced flow monitoring firm for conducting the flow monitoring field work. RMC will be responsible for coordination of the flow monitoring work, review of the collected data, and preparation of a summary report providing the results of the flow monitoring as required to be submitted to EPA by October 15, 2009.

SMCSD, Sausalito, and TCSD will be responsible for providing assistance as needed to locate and access proposed meter sites. SMCSD shall also provide flow data in electronic format from the permanent monitoring stations.

Task 1 – Conduct Flow Monitoring Program

RMC's flow monitoring subcontractor will conduct a field reconnaissance to evaluate each proposed flow monitoring site with respect to access, traffic control requirements, and hydraulic

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suitability. Based on the field reconnaissance, the sites for some meters may need to be changed from the original proposed sites.

Metering equipment will be selected as appropriate for the identified monitoring sites. Meters in gravity sewers will be capable of recording both flow depth and velocity under both partial flow and full pipe (surcharged) conditions. Pump station sites will be metered by pump runtime recorders calibrated by drawdown testing, or by clamp-on force main meters. It is assumed that SMCSO staff will provide access and assistance as needed for installation of the pump recorders and conducting the drawdown tests for SMCSO and Sausalito pump stations.

The temporary meters and rain gauges will be installed by December 15, 2008. The meters will remain in place for a period of 60 days from date of last meter installation. The monitoring period can be extended on a weekly basis at the SMCSO agencies' direction should insufficient rainfall occur during the two-month wet weather monitoring period. The meters will be visited every 7 to 10 days for maintenance, calibration, and interrogation, and removed at the conclusion of the monitoring period.

RMC shall review the flow monitoring data collected on a regular basis during the flow monitoring period. Any suspect data or anomalies will be reported to the flow monitoring subcontractor for investigation.

Task 2 – Summarize Data and Prepare Flow Monitoring Report

RMC will analyze the collected flow data to determine average and peak dry weather flows and peak wet weather flows from each agency and monitored sewer basin. RMC will prepare a draft flow monitoring summary report that will include plots and summary tables of the flow monitoring data, summary of the storm events that occurred during the monitoring period, and summaries of average and peak flows and peaking factors. Detailed I/I analysis, projection of flows to a "design storm" condition, and capacity assessment of the system are not included in this scope of work.

Task 3 – Project Management and Coordination

RMC shall monitor project status, budget, and schedule on an on-going basis. Up to three meetings with agency staff will be held during the course of the flow monitoring program, including a kickoff meeting and a final meeting to review the flow monitoring data, results, and draft report.

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program during the winter 2008-09 to not only quantify flows from each individual agency, but also to further subdivide the collection system into basins in order to quantify flows from smaller areas of the system. Under future tasks, this data will be analyzed to estimate I/I flows from collection system basins and provide the basis for a more detailed hydraulic analysis of the collection systems (including development and calibration of a hydraulic model) and identification of potential I/I reduction projects and/or capacity improvement projects.

Collection system maps available in GIS format were used to delineate sewer basins. Sewer basins define areas within each agency's collection system that typically drain to a common point or several points in close proximity on a major agency trunk sewer or SMCSO interceptor. In general, the manhole numbering system used by the agencies help define basin boundaries. Sewer basins were delineated to each include roughly 10,000 to 30,000 lineal feet of public sewer mains, considered a reasonable size for this type of flow monitoring program. Some basins, however, may have somewhat less footage due to the configuration of the system.

Based on the basin delineation, potential flow meter sites were identified based on the following target criteria:

- Meter sites should, to the extent possible, isolate basin flows without the need to subtract out upstream flows from other basins.
- Gravity sewer meters should be located, to the extent possible, in straight through manholes with minimal flow from side connections.
- Basins served by pump stations can be metered by installation of pump runtime recorders or clamp-on meters on effluent force mains.
- Existing permanent pump station meters should be utilized to the extent possible.

In a few cases, small areas of the system cannot be reasonably isolated for flow monitoring or are too small to warrant installation of meters at this stage in the program (in such cases, I/I investigation, if needed in the future, would be better accomplished by field testing and inspection). However, non-metered areas have been minimized to the greatest extent possible.

The following paragraphs describe the recommended flow monitoring plan, including flow monitoring period, proposed meter locations, monitoring equipment, and monitoring procedures.

5.2.2 Flow Monitoring Period

Wet weather periods in the San Francisco Bay area typically occur during the months of November through April, with most rain generally falling in December through March. For wet weather flow data analysis, it is desirable to capture several medium to large size wet weather events (e.g., over 0.5 inches or more of rainfall) with at least some of the storms occurring under conditions in which the soil has already become saturated due to antecedent rainfall. Historical data from the Bay Area indicates that maximum I/I occurs under such saturated soil conditions.

While quantifying dry weather flows is also important for hydraulic analysis and for separation of I/I from total flows, there are almost always extended periods with no rainfall that occur during the winter months, so separate monitoring during the dry season is not considered to be needed for a system-wide flow monitoring program focused on wet weather and I/I analysis. Flows from permanent meters and the WWTP can be used to compare summertime dry weather flows with wintertime flows to identify if there any significant differences in dry weather flows during different seasons of the year. The SMCSO agencies propose to install temporary meters during the wet weather season only, while utilizing the four permanent pump station meters to comply with the October 15, 2008 deadline for meter installation as specified in the Order. As noted previously, the permanent meters can be used to quantify the total flows from each individual agency.

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The SMCSO agencies propose to install the temporary flow meters by December 15, 2008 in order to capture dry and wet weather flows throughout the system at the basin level. The meters would remain in place for two months at a minimum, or until sufficient rainfall occurs to quantify wet weather flows during significant storm events. Based on the results of the 2008-09 program, a decision may be made to leave some of the meters in place to capture additional dry season flows, or to conduct additional flow monitoring next winter season to supplement the 2008-09 data or quantify flows from smaller subbasins within the meter basins.

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In addition to the flow meters, temporary rain gauges will also be installed at representative locations within the service area to capture rainfall data for monitored storm events.

5.2.3 Proposed Meter Locations

Figure 5-1 shows the existing permanent meter sites in the SMCSO system, which are listed in Table 5-1. Figures 5-2 through 5-4 show the delineation of sewer basins and the proposed wet weather flow monitoring sites for the City of Sausalito, Marin City (SMCSO), and TCSD, respectively. Table 5-2 lists the wet weather meter sites and pertinent information about each site. Table 5-3 lists the proposed rain gauge sites. The suitability of all flow and rainfall monitoring sites will be verified in the field as part of the initial flow meter site reconnaissance (see subsection 5.2.5 for discussion). Based on the field reconnaissance, the locations of some of the sites may be changed as needed to ensure suitable hydraulic and access conditions for monitoring. Such adjustments may alter the specific basin area captured by each meter.

Table 5-1: SMCSO Permanent Flow Monitoring Sites

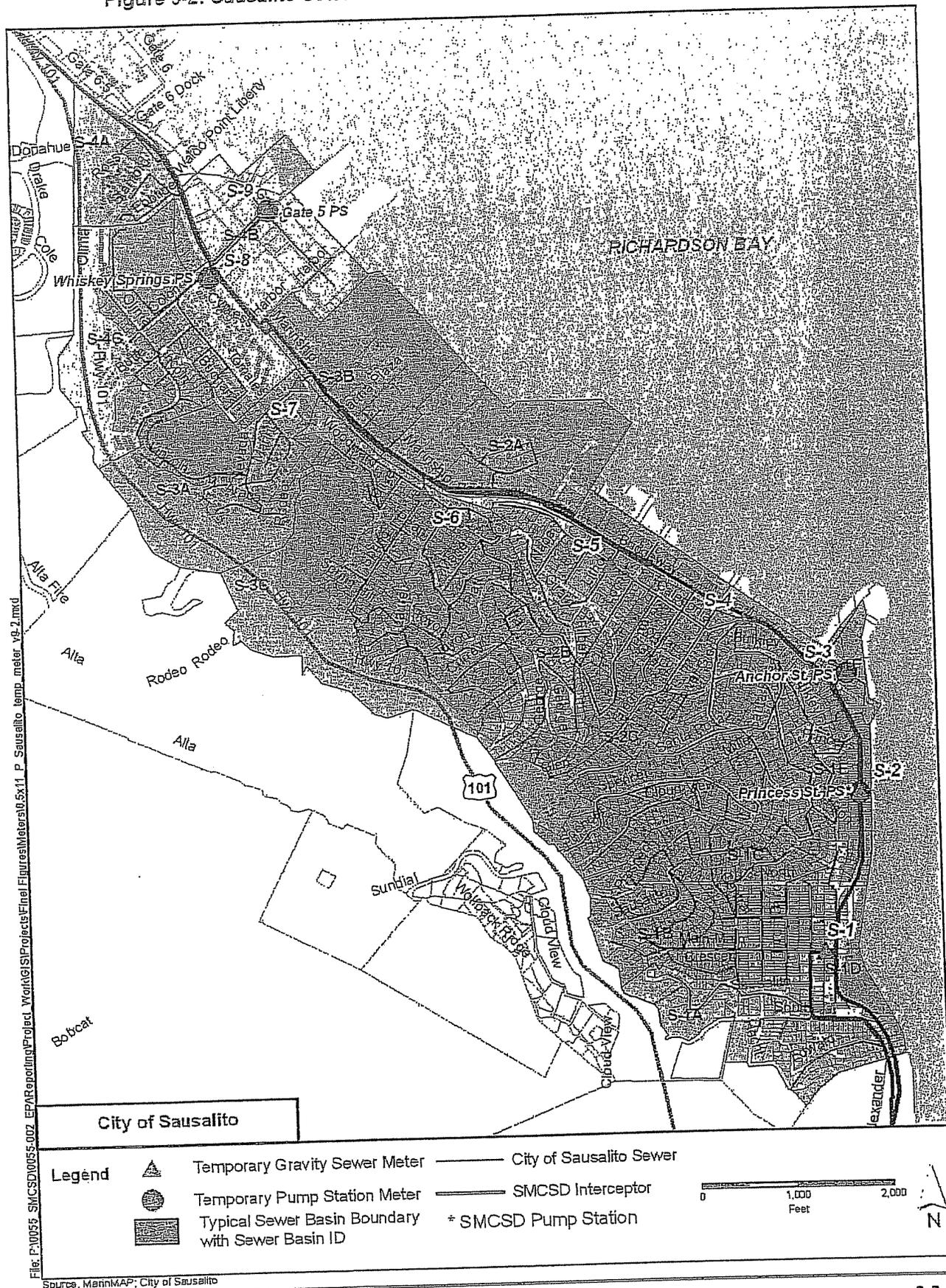
Location	Tributary Agencies
Bell Lane Pump Station	TCSD
Marin City Pump Station	SMCSO (Marin City)
Locust Street Pump Station	Sausalito ^a
Main Street Pump Station	Sausalito ^a

Footnotes:

a. After subtraction of Bell Lane and Marin City Pump Station flows.

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Figure 5-2: Sausalito Sewer Basins and Wet Weather Flow Monitoring Sites



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Table 5-2: Proposed Wet Weather Flow Monitoring Sites

Agency	Meter ID	Manhole or Pump Station	Pipe Size (in.)	Location	Upstream Meters	Tributary Sewer Basins ^a	Est. Pipe Length (ft.)
TCSD	T-1	2.0002	8	Shoreline Hwy. n/o Shasta Way		TCSD-2	27,000
TCSD	T-2	3.002	12	Northern Ave. at Shoreline Hwy.	T-1	TCSD-3	22,200
TCSD	T-3	1.002	14	Shoreline Hwy. at Pinehill Rd.	T-1, T-2, T-4	TCSD-1(part)	13,400
TCSD	T-4	4.001	10	Maple St. s/o Shoreline Hwy.		TCSD-4	20,000
TCSD	T-5	5.126	14	Laurel Way betw. Shoreline Hwy. & Jean St.	T-3	TCSD-1(part)	12,400
TCSD	T-6	6.003	6	Easmt. betw. Enterprise Concourse & Bell Lane PS		TCSD-6	22,900
TCSD	T-7	5.030	10	Laurel Way at Jean St.		TCSD-5(part)	22,000
TCSD	T-8	Bell Lane PS ^b	--	Bell Lane n/o Enterprise Concourse	T-5, T-6, T-7	TCSD-5(part)	8,500
SMCSD	MC-1	Highway Booster PS	--	Adj. to Hwy. 101 s/o Shoreline Hwy.		MC-HB	5,100
SMCSD	MC-2	Marin City PS ^b	--	Adj. to Donohue St. near Park Clr.	MC-3	MC-MC	18,400
SMCSD	MC-3	Drake PS	--	w/o Donohue St. and Drake Ave.		MC-DR	9,400
Sausalito	S-1	100001	10?	Main St. betw. Second St. & Bridgeway		S-1A,B,C	22,400
Sausalito	S-2	Princess St. PS	--	Bridgeway s/o Princess St.		S-1E	6,900
Sausalito	S-3	Anchor St. PS	--	Anchor St. at Humboldt Ave.		S-1F	1,600
Sausalito	S-4	210500/210600	7	Caledonia St. at Bridgeway		S-2C	25,200
Sausalito	S-5	220000/220101	6	Litho St. at Bridgeway/Caledonia St.		S-2B	10,200
Sausalito	S-6	310000/310100	8	Spring St. at Marinship Way/Bridgeway		S-3C	16,900
Sausalito	S-7	370050/370100	6 or 8	Nevada St. at Bridgeway		S-3A	6,500
Sausalito	S-8	440300 or Whiskey Springs PS	8	Coloma St. w/o Bridgeway		S-4C	9,100
Sausalito	S-9	Gate 5 PS	--	Gate 5 Road at Coloma St.		S-4B	3,900

Footnotes:

- Basins tributary to incremental meter area (i.e., after subtraction of upstream meter basins). See Figures 5-2 through 5-4 for basin delineation.
- Permanent flow meter.

Table 5-3: Proposed Rain Gauge Sites

Rain Gauge ID	Location
RG1	Bell Lane Pump Station
RG2	Locust Street Pump Station

5.2.4 Monitoring Equipment

As indicated in Table 5-2, most of the temporary flow monitors will be installed in gravity sewer mains. All gravity sewer meters will be capable of measuring both depth and velocity of flow under both normal and surcharge conditions. Selection of specific metering equipment will be made by the flow monitoring contractor based on the hydraulic conditions at each site as determined through field reconnaissance.

Temporary pump station metering will be accomplished through use of pump runtime recorders or clamp-on Doppler meters on the effluent force main. When pump recorders are used, pump flow rates will be calculated based on runtimes and known pump discharge rates as determined by pump station drawdown testing.

Rainfall monitoring will utilize tipping bucket rain gauges that capture rainfall in one-hundredth (0.01) inch increments.

5.2.5 Monitoring Procedures

The suitability of all flow monitoring sites will be verified by field reconnaissance prior to installation of the meters. Field reconnaissance will evaluate the hydraulic conditions of the sites and any issues relating to access and traffic control. Based on the site reconnaissance, some meter sites may be adjusted as needed to provide for suitable hydraulics or safe access.

Following installation, the flow meters will be visited approximately every one to two weeks to download data, check site conditions and meter operation, and obtain field calibration measurements. The gravity sewer flow meters will be calibrated by obtaining independent measurements of flow depth and velocity at various times of the day during the flow monitoring period.

For pump stations with pump runtime recorders, pump discharge rates will be determined by drawdown testing. Drawdown testing involves filling the pump station wet well and then measuring the time required to draw down the level when each individual pump and pumps in combination are running. The volume pumped is calculated based on the cross-sectional area of the wet well (as determined by field measurement or from pump station drawings) and the measured drawdown depth.

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In addition to the above, the following areas of collaboration are available to the agencies.

7.2.1 Common Performance Goals and Performance Reporting

The Order has specific elements that relate to the management, response to emergencies, asset assessment and management, and system performance. The following performance parameters should be held in common to provide a uniform level of public health and environmental protection across the areas served by each of the agencies:

- Response times to overflows and the methods of minimizing public exposure
- Overflow performance to be attained (in terms of number of overflows per mile of collection system per year) by a target year

The agencies should also use common reporting and system assessment methods including common condition codes. This would allow ease of reporting to regulatory agencies, and would allow direct comparisons on an 'apples-to-apples' basis across the collection and conveyance assets of each agency. Such ease of comparison would promote a more uniform approach to asset management and emergency response, and would focus corrective measures on those aspects or areas of the combined (across the three agencies) wastewater system that need attention.

7.2.2 Sharing Resources

The following opportunities for sharing resources are available to the agencies:

- The three agencies should 'pool' their emergency response staffs, equipment and communication infrastructure. This has already been implemented to some extent in that the alarm status of most of the City of Sausalito and most of the SMCSD pump stations are monitored by telemetry from the treatment plant. This could be extended to the Anchor Street P.S. (City owned), the Highway Booster P.S. (SMCSD owned) and the Bell Lane P.S. (TCSD owned).
- Formal arrangements regarding the shared response to alarm conditions, including the sharing of first responders, and the location and responsibility of repair crews and equipment could allow a reduction in cost and a higher degree of responsiveness, especially in emergency conditions. The City of Sausalito has its own maintenance staff that can be called upon for emergency response, whereas TCSD uses Roto Rooter and SMCSD relies on Roy's Sewer Service to clear pipe blockages or repair pipes.
- Together the three agencies should identify a single entity to conduct the flow monitoring that will be required as part of this Order. A single entity would provide a uniform approach to flow monitoring, which would allow for ready integration into the Capacity Assessment required as part of the Order. A single entity would provide the lowest overall cost to the agencies and would avoid the contract management costs associated with multiple entities.

7.2.3 Collaboration on System-wide Planning and Capital Expenditure

Collaboration among the agencies on the planning of system-wide improvements will identify the lowest cost alternatives for delivering adequate capacity throughout the wastewater system. With this in mind, the SMCSD commissioned the Wet Weather Conveyance and Treatment Evaluation (February 2008) which assessed system-wide alternatives that included various combinations of collection system rehabilitation, flow equalization, conveyance capacity increases, and treatment plant capacity increases. This report identified the most cost effective combinations of these system improvements to avoid capacity related overflows.

A key recommendation of this evaluation was the use of flow equalization in the conveyance system. SMCSD, in cooperation with the City of Sausalito and TCSD, has conducted community consultation efforts regarding the recommended site for a flow equalization basin. SMCSD is currently assessing 11 sites. The City, SMCSD

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AGREEMENT FOR
PROFESSIONAL SERVICES

USEPA COMPLIANCE ORDER CWA-309(a)-08-031
OVERFLOW REDUCTION ACTION PLAN AND RESPONSE TO EPA ORDER REPORTS
PHASE I – OCTOBER 15, 2008 PLAN AND REPORT PREPARATION FOR
SAUSALITO –MARIN CITY SANITARY DISTRICT, CITY OF SAUSALITO AND
TAMALPAIS COMMUNITY SERVICES DISTRICT

THIS AGREEMENT, made and entered into this 23rd day of July 2008, by and between the SAUSALITO-MARIN CITY SANITARY DISTRICT, a political subdivision of the state of California, in Marin County, California (hereinafter referred to as "SMCSD"), and the CITY OF SAUSALITO (hereinafter referred to as "CITY", and from time to time SMCSD and CITY may be referred to individually as "agency" and together, the "Agencies") on the one hand, and RMC WATER AND ENVIRONMENT (Tax I.D. No. 94-3295096) (hereinafter referred to as "RMC", and together with the Agencies, the "Parties") on the other.

WITNESSETH:

In consideration of the mutual promises set out below RMC and the Agencies agree as follows:

1. (A) The services to be performed, (B) the time within which said services are to be performed, (C) the amount of compensation and (D) the schedule for payment of such compensation shall be as specified in Exhibit "A" attached hereto and by this reference incorporated herein.

2. GENERAL PROVISIONS. The general provisions set forth in Exhibit "B" are a part of this Agreement. Any inconsistency between said general provisions and any other terms or conditions of this Agreement shall be controlled by the other term or condition insofar as it is inconsistent with the general provisions.

3. DESIGNATED REPRESENTATIVES. ROBERT A. SIMMONS is the representative of SMCSD and will administer this Agreement for SMCSD. THE CITY ENGINEER is the designated representative for the CITY and will administer this Agreement for the City. STEPHEN CLARY is the authorized representative for RMC. Changes in designated representatives shall occur only by advance written notice to the other parties.

4. EXHIBITS. All Exhibits referred to herein are attached hereto and by this reference incorporated herein. Exhibits include:

Exhibit "A" - Services and Payment
Exhibit "B" - General Provisions
Exhibit "C" – Scope of Work

5. AGREEMENT DATE. The Agreement date is July 23, 2008.

6. TRIBUTARY AGENCY PARTICIPATION: Tamalpais Community Services District (hereinafter referred to as "TCSD") is a tributary agency to SMCSD. TCSD will make separate contractual arrangements with RMC for work relating to the Scope of Work (Exhibit C).

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day here first above written:

"SMCSD"

"RMC"

SAUSALITO-MARIN CITY SANITARY DISTRICT

By: Robert A. Simmons
Robert A. Simmons, General Manager

By: Stephen Clary
Stephen Clary, P.E., Vice President

ATTEST:

Jayne Krueger

By: Gisa Ju
Gisa Ju, P.E., Vice President

"CITY"

CITY OF SAUSALITO

By: Adam W. Politzer
Adam W. Politzer, City Manager

ATTEST:

Debbie Pagliaro
Debbie Pagliaro, Deputy City Clerk

APPROVED AS TO FORM:

By: Marya Wagner
Marya Wagner, City Attorney

EXHIBIT "A"

SERVICES AND PAYMENT

A.1 SCOPE OF SERVICE, LEVEL OF EFFORT AND COST BREAKDOWN.

The scope of RMC's services, estimated level of effort, hourly rates and cost breakdown are contained in this and the following Exhibits.

A.2 TIME OF SERVICES RENDERED.

The schedule for work prosecution and professional services shall be such that the reports to be prepared by RMC as set forth in the Scope of Work (Exhibit C) shall be completed prior to October 15, 2008. If the United States Environmental Protection Agency ("EPA") grants the Parties additional time to submit the required reports, RMC agrees to complete such reports on an amended schedule in accordance with the rates quoted upon the initial execution of this Agreement.

In the case of unavoidable delay due to weather, strikes, or any other condition not under RMC's reasonable control, the time for performance by RMC as provided herein shall be extended; provided that the EPA grants the Agencies a similar time extension on the date for the delivery of the reports. In such case, an equitable adjustment in RMC'S hourly rates may be negotiated by mutual agreement. Said modification or revision to this AGREEMENT shall be in writing signed by the Parties.

A.3. MANNER SERVICES ARE TO BE PERFORMED.

As an independent consultant, RMC shall be responsible for providing services and fulfilling obligations hereunder in a professional manner.

A.4. FACILITIES FURNISHED BY SMCSD AND CITY

None

A.5. PAYMENT

SMCSD and City shall pay RMC as follows:

COMPENSATION: SMCSD shall be responsible for making payments to RMC on behalf of SMCSD and TCSD, if applicable, for services rendered on a time and materials basis as set forth below. City shall be responsible for making payments to RMC directly for services rendered on a time and materials basis as set forth below. In no event shall total compensation paid to RMC under this Provision A.5 exceed \$111,504.00 without a written amendment to this Agreement approved by SMCSD and City and in no event shall the total amount paid to RMC by the City for services rendered exceed \$55,752.00 without the prior written consent of the City.

A.6. COSTS AND COST ACCOUNTING

Costs will be incurred at the hourly rates of the RMC staff involved with completing the work scope pursuant to the current fee schedule in effect on the date of execution of agreement. RMC's 2008 hourly rates are shown in the following table. RMC will make reasonable efforts to assure that the tasks accomplished are billed at the appropriate rate for the given task.

RMC will account for work performed on specific agency separately. RMC will also account for work completed in common for Agencies. There shall be 4 groups of costs:

Cost specific to SMCSD

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Costs specific to City of Sausalito

Costs specific to collaborative efforts of SMCSD, City of Sausalito, TCSD

EXHIBIT "B"

GENERAL PROVISIONS

1. Acceptance by the Agencies of the work performed under this Agreement does not operate as a release of RMC from responsibility for the work performed. RMC understands and agrees that the scope of the work to be performed under this Agreement can and shall be performed in a manner compatible with the standards of RMC's occupation or profession.
2. It is expressly understood that in the performance of the services herein, RMC, and the agents and employees thereof, shall act in an independent capacity and as an independent entity and not as officers, employees or agents of the Agencies. This Agreement shall not be construed as an agreement for employment. RMC shall be solely liable and responsible to pay all required taxes and other obligations, including but not limited to, withholding and Social Security.
3. RMC shall provide the Agencies with timely advice of all significant developments arising during performance of its services hereunder, orally or in writing, as RMC deems appropriate or as requested by the Agencies.

RMC shall devote such time to the performance of services pursuant to this Agreement as may be reasonably necessary for the satisfactory performance of RMC's obligations pursuant to this Agreement. No party shall be considered in default of this Agreement to the extent performance is prevented or delayed by any cause, present or future, that is beyond the reasonable control of a party.

4. The Parties recognize that a substantial inducement to the Agencies for entering into this Agreement was and is the reputation and competence of RMC. Neither this Agreement nor any interest therein may be assigned by RMC without prior written approval of the Agencies, and this Agreement contemplates the services of RMC as the primary provider of the services called for to be performed. Except as otherwise provided in this section, RMC shall not subcontract any portion of the performance contemplated and provided for herein without prior written approval of the Agencies. Any consultant(s), independent contractor(s) or any type of agent(s) performing or hired to perform any term or condition of this Agreement on behalf of RMC, as may be allowed by this Agreement (hereinafter referred to as the "Secondary Parties"), shall comply with each term and condition of this Agreement. Furthermore, RMC shall be responsible for the Secondary Parties' negligent acts and satisfactory performance of the terms and conditions of this Agreement.
5. RMC and any Secondary Parties shall maintain books, records, documents and other evidence directly pertinent to all work under this Agreement in accordance with accepted professional practice and accounting procedures for a minimum period of four years after the termination of the Agreement. The Agencies, or any of their duly authorized representatives, shall have access to such books, records, documents, and other evidence for purposes of inspection, audit and copying.
6. RMC shall procure and maintain, for the duration of the contract, insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work hereunder by RMC, its agents, representatives, or employees or Secondary Parties.

Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. Insurance Services Office Commercial General Liability coverage (occurrence Form CG 0001 or equivalent).
2. Insurance Services Office Form Number CA 0001 covering Automobile Liability, code 1 (any auto).
3. Workers' Compensation insurance as required by the State of California and Employer's Liability Insurance.

Minimum Limits of Insurance

RMC shall maintain limits no less than:

- | | |
|---|--|
| 1. General Liability:
(Including operations,
products and
completed operations.) | \$1,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. |
| 2. Automobile Liability:
damage. | \$1,000,000 per accident for bodily injury and property damage. |
| 3. Employer's Liability: | \$1,000,000 per accident for bodily injury or disease. |
| 4. Errors and Omissions liability: | \$2,000,000 per claim or aggregate |

Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions exceeding \$50,000 must be declared to and approved by the Agencies. At the option of the Agencies, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the Agencies, their officers, elected and appointed officials and employees and volunteers; or RMC shall provide a financial guarantee satisfactory to the Agencies guaranteeing payment of losses and related investigations, claim administration, and defense expenses.

Other Insurance Provisions

The general liability and automobile liability policies are to contain, or be endorsed to contain, the following provisions:

1. The Agencies, their respective officers, elected and appointed officials, employees and volunteers are to be covered as additional insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of RMC; and with respect to liability arising out of work or operations performed by or on behalf of RMC including materials, parts or equipment furnished in connection with such work or operations. General liability coverage can be provided as a separate owner's policy (CG 20 10 11 85 or equivalent).
2. For any claims related to this project, RMC's insurance coverage shall be primary insurance as respects the Agencies, their respective officers, elected and appointed officials, employees or volunteers. Any insurance or self-insurance maintained by the Agencies, their respective officers, elected and appointed officials, or employees shall be excess of RMC's insurance and shall not contribute with it.
3. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be canceled by either party, except after thirty (30) days' prior written notice by U.S. mail, has been given to the Agencies.

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4. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under Subdivision (b) of Section 2782 of the Civil Code.

Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A:VII.

Verification of Coverage

RMC shall furnish the Agencies with original certificates effecting coverage required by this clause. The certificates should be on forms provided by SMCSO and CITY or on other than SMCSO's forms, provided those certificates conform to the requirements. All certificates are to be received and approved by SMCSO before work commences. RMC shall produce copies of all policies upon SMCSO's request.

Subconsultants

RMC shall include all subconsultants as insureds under its policies or shall furnish separate certificates and endorsements for each subconsultant to the Agencies for review and approval. All coverages for subconsultants shall be subject to all of the requirements stated herein.

Indemnity

RMC agrees to indemnify, including the cost to defend, the Agencies and their respective officers, elected and appointed officials, agents, employees and volunteers from any and all claims, demands, costs or liability to the extent caused by the negligence, recklessness, or willful misconduct of RMC and its agents in the performance of services under this contract. This indemnity does not apply to liability for damages for death or bodily injury to persons, injury to property, or other loss, arising from the negligence, willful misconduct or defects in design process by any third parties, or by the Agencies or the agents, servants, or independent contractors who are directly responsible to the Agencies, or arising from the active negligence of the Agencies.

Miscellaneous

1. RMC shall maintain appropriate licenses throughout the life of this Agreement. RMC shall also obtain any and all permits that might be required by the work to be performed herein.
2. RMC and any permitted subconsultant shall not discriminate against any individual based on race, color, ethnicity, religion, nationality, sex, age, gender, sexual orientation, marital status or condition of disability.
3. If litigation or administrative hearings ensue which pertain to the subject matter of RMC's services hereunder, RMC upon request agrees to testify therein at a reasonable and customary fee.
4. All reports, information, data, work product, findings, and conclusions furnished to or collected, prepared, assembled, and/or made by RMC and RMC's agents under this Agreement ("Work Product") shall be the property of the Agencies, shall be confidential until the Agencies make the Work Product available for public inspection, and shall not be made available by RMC to any person or entity or published by RMC without the prior written authorization of the Agencies.
5. RMC warrants and covenants that RMC presently has no interest in, nor shall any interest be hereinafter acquired in any matter, which will render the services required under the provisions of this Agreement, a violation of any applicable state, local or federal law. RMC further warrants that no officer or employee of the Agencies has influenced or participated in a decision to award this contract which has or may confer on RMC a benefit in which such employee or officer may have an interest,

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pecuniary or otherwise. In the event that any conflict of interest or violation of this section should nevertheless hereafter arise, RMC shall promptly notify the Agencies of the existence of such conflict of interest or violation so that the Agencies may determine whether to terminate this Agreement.

6. Any Party shall have the right to terminate this Agreement at any time by giving notice in writing of such termination to all Parties. In the event of termination by one Party, RMC shall continue to provide the services covered by this Agreement to the non-terminating Party(ies). Upon notice of termination, RMC shall immediately cease rendering services and the following shall apply:
 - (a) RMC shall deliver copies of all writings prepared by it pursuant to this Agreement to the terminating Party. The term "writings" shall be construed to mean and include: handwriting, typewriting, printing, photostating, photographing, and every other means of recording upon any tangible thing, and form of communication or representation, including letters, words, pictures, sounds, or symbols, or combinations thereof.
 - (b) The terminating party(ies) shall pay RMC the reasonable value of services rendered by RMC on behalf of that party to the date of termination pursuant to this Agreement not to exceed the amount documented by RMC and approved by the terminating party as work accomplished to date; provided, however, no Party in any manner shall be liable for lost profits that might have been made by RMC had RMC completed the services required by this Agreement. In this regard, RMC shall furnish to the terminating party such financial information as, in the judgment of the Agencies, is necessary to determine the reasonable value of the services rendered by RMC. In the event of a dispute as to the reasonable value of the services rendered by RMC, the decision of the Agencies shall be final. The foregoing is cumulative and does not affect any right or remedy that the Agencies may have in law or equity.
7. RMC may terminate its services under this Agreement upon thirty (30) working days written notice to the Agencies, without liability for damages, if RMC is not compensated according to the provisions of the Agreement or upon any other material breach of the Agreement by the Agencies, provided that RMC has first provided the Agencies with a written notice of any alleged breach, specifying the nature of the alleged breach and providing not less than ten (10) working days within which SMCSO or CITY may cure the alleged breach.
8. Modification or waiver of any provisions of this Agreement or its attachments shall not be effective unless such waiver or modification shall be in writing, signed by all parties, and then shall be effective only for the period and on the condition, and for the specific instance for which given.
9. If any term, covenant, condition or provision of this Agreement is held by a Court of competent jurisdiction to be invalid, void or unenforceable, the remainder of the provision and/or provisions shall remain in full force and effect and shall in no way be affected, impaired or invalidated.
10. This Agreement may be executed simultaneously and in several counterparts, each of which shall be deemed an original, but which together shall constitute one and the same instrument.
11. In any action at law or in equity, including an action for declaratory relief, brought to enforce or interpret provisions of this Agreement, each party shall bear its own costs, including attorneys' fees.
12. Unless otherwise expressly waived in writing by the parties hereto, any action brought to enforce any of the provisions hereof or for declaratory relief hereunder shall be filed and remain in a court of competent jurisdiction in the County of Marin, State of California. This Agreement and all matters relating to it, shall be governed by the law of the State of California.
13. Notwithstanding any term or condition of the Agreement, the provisions, and related provisions, of the California Tort Claims Act, Division 3.6 of the Government Code, are not waived by the Agencies

and shall apply to any claim against the Agencies arising out of any acts or conduct under the terms and conditions of this Agreement.

14. If RMC is a corporation or public agency, each individual executing this Agreement on behalf of said corporation or public agency represents and warrants that he or she is duly authorized to execute and deliver this Agreement on behalf of said corporation.
15. Upon the occurrence of any default of the provisions of this Agreement, a party shall give written notice of said default to the party in default. If the party in default does not cure the default within ten (10) days of the date of notice, then such party shall be in default. The time to cure may be extended in the discretion of the party giving notice. Any extension of time to cure must be in writing, prepared by the party in default for signature by the party giving notice and must specify the reason(s) for the extension and the date in which the extension of time to cure expires. Notice given under this section shall specify the alleged default and the applicable Agreement provision and shall demand that the party in default perform the provisions of this Agreement within the applicable period of time. No such notice shall be deemed a termination of this Agreement unless the party giving notice so elects in this notice, or the party giving notice so elects in a subsequent written notice after the time to cure has expired.
16. This Agreement, at the option of any party, shall be terminable in the case of bankruptcy, voluntary or involuntary, or insolvency of RMC. Any party may terminate this Agreement in the event RMC ceases to operate as a business, or otherwise becomes unable to substantially perform any term or condition of this Agreement
17. All notices and demands of any kind which either party may require or desire to serve on the other in connection with this Agreement must be served in writing either by personal service or by registered or certified mail, return receipt requested, and shall be deposited in the United States Mail, with postage thereon fully prepaid, and addressed to the party so to be served as follows:

If to SMCS D AND CITY:

SAUSALITO-MARIN CITY SANITARY DISTRICT
#1 East Road, P.O. Box 39
Sausalito, CA 94966-0039

CITY OF SAUSALITO
420 Litho Street
Sausalito, CA, 94966

If to RMC:

RMC.
Attention: Stephen Clary
2001 N. Main St., Suite 400
Walnut Creek, CA 94596

Each party shall provide the other with telephone and written notice of any change of address as soon as practicable.

Payment

Payment to RMC, as described in Article A.5, is to be made as follows:

1. RMC shall submit its standard monthly invoice describing the work performed and expenses incurred during the preceding month for each agency, respectively. Each agency shall make their respective payments of undisputed amounts to RMC within thirty (30) days after receipt of RMC's monthly invoice.

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2. RMC shall submit its invoices to each agency at the addresses provided in the notification clause set forth below. Each agency shall notify RMC of any additional requirements for such invoices within ten (10) days of the execution of this AGREEMENT.
3. Within fifteen (15) days of receipt of any invoice, each agency shall review the invoice and notify RMC of any disputed portions. In the event an agency disputes any portion of any invoice, the agency shall pay all undisputed portions as set forth herein.
4. An agency may not withhold payment of any invoice or portion thereof as an offset to any actual or claimed damages not directly attributable to the specific services and expenses withheld.
5. The Agencies agree that timely payment, as provided herein, is a material term of this Agreement, and failure to make timely payment as agreed constitutes a breach hereof. In the event payment for services rendered has not been made within forty-five (45) days from the receipt of an invoice, RMC may, after giving seven (7) days' written notice and without penalty or liability of any nature, and without waiving any claim against any agency, suspend all work on all authorized services for the party that has failed to make the timely payment as set forth herein. Upon receipt of payment in full for services rendered, plus interest charges, RMC will resume services for such party, but shall be entitled to an equitable adjustment in compensation and schedule to cover fee, expense, and schedule impacts from such suspension.
6. Payment of a party's respective portion of the compensation due RMC pursuant to this Agreement shall be a condition precedent to the Agencies using any of RMC's professional services work product furnished under this Agreement.
7. It is further agreed that the above payments for engineering services, as described herein, have been arrived at after meaningful negotiations between SMCS D, CITY and RMC.
8. It is also mutually agreed that the above payment for engineering services shall be compensation only for those services specifically identified in Exhibit C. Provisions for additional compensation will be separately negotiated to pay for Additional Services as set forth in this Agreement.

Project Management/Liaison

1. SMCS D shall administer the Agreement with respect to SMCS D and the scope of work described in Exhibit C. The City shall administer the Agreement with respect to the City.
2. RMC shall establish an internal cost accounting and project management system to track time and costs associated with the work. Work that is specific to an agency shall be tracked and charged to that agency. Work that is performed in common shall also be tracked and costs shall be split on a ½ - ½ basis among the City and SMCS D. Within two weeks of the issuance of the notice to proceed, RMC shall submit a project management plan that includes an estimated budget allocation for work to be charged separately to each agency and work that will be charged in common. The estimated allocations are to be considered approximate and may change once work has commenced based on the degree to which information is readily retrievable and usable. However, the total value of the contract will not be exceeded without prior authorization from the Agencies. SMCS D and CITY will review the plan, remedy any differences and provide their respective approvals within ten days of submission of the project management plan.
3. RMC shall submit a monthly progress report with its invoice to City and SMCS D. The report will include a brief description of work accomplished, budget and schedule status, and any problems encountered. RMC shall provide notice when work for an agency is expected to exceed its allocated budget and will provide the agency an amended scope of work and an estimate of additional budget requirement. The agency shall review the notice and additional budget requirement and reconcile any difference with RMC. Because of the EPA mandated deadlines in the Compliance Order, these budget differences shall be resolved within 7 calendar days. The

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agency shall either provide a written authorization to proceed with the additional work at an agreed upon increase in budget or will provide written notice that it desires RMC not to perform the additional work. Work prosecution for unaffected agencies shall not be negatively impacted by any dispute.

4. Intentionally omitted.
5. RMC's work shall be completed on a time and materials basis therefore, billings to each agency will reflect the actual cost of the work performed.
6. Each agency shall be solely responsible for review and approval of the portions of the reports that are specific to its agency. General language in the front end of the reports that are common to all of the Agencies shall be reviewed by the Agencies and where a conflict over language exists, the Agencies will meet with RMC to reconcile differences. If differences cannot be reconciled, the Agency(ies) which disagree with the proposed language shall be allowed to have their disagreement noted in the form subject to such Agencies approval or such agency shall at its discretion be allowed to remove itself from participation in the disputed section and submit its own section independently.
7. An agency may terminate its participation in the project at any time by providing written notice two weeks in advance to the other two agencies and RMC. In the event, an agency chooses to terminate its participation, it shall be liable for costs incurred up to the date of termination and agrees to make prompt payment of costs that are due. The remaining agencies and RMC shall meet to re-negotiate the impacts of the termination on the scope of services, cost and the allocation of cost and will endeavor to come to agreement over required changes.
8. Because the intent of this scope of work is to answer the EPA Compliance Order, which has specific work products due on specific dates, time is of the essence. Therefore, all agencies and RMC will review materials, answer requests for information, and provide direction in a timely manner.

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EXHIBIT "C"

SCOPE OF WORK

This Scope of Work defines the tasks that RMC will perform in accordance with the Agreement. The schedule for completing the scope of work is presented at the end of this exhibit. The schedule reflects the EPA mandated deadline for submission of the listed reports therein. It is assumed that the required background information and data (as listed under "Information to be Provided by Agencies" at the end of this Scope of Work) would be provided to RMC along with the Notice to Proceed by August 20, 2008.

RMC will prepare all plans and reports as stipulated in the Order of submittal during 2008, except for annual progress reports (however, we will provide support for progress reporting as noted under Task 7). Agencies will be responsible for implementing the plans, including required contracting for flow monitoring, cleaning and/or inspection, purchase and implementation of maintenance management systems and GIS, and design and construction of capital improvements.

The format of the plans will consist of language in the front end of the plan that will apply to all the Agencies, with appendices that are specific to each agency's collection system. It is assumed that each agency will provide comments on draft documents within 10 days of submittal as needed to prevent the need to prepare and explain multiple plans to EPA.

The major task headings for the scope of work follow the requirements of the EPA order and are listed below:

Task 1 Spill Response, Recordkeeping, Notification, and Reporting

Task 2 Collection System Maintenance and Management

- 2.1 Sewer System Cleaning and Root Control Program
- 2.2 Maintenance Management System
- 2.3 Pump Station Reliability Certification – (Not included in this scope of work)
- 2.4 Fats, Oils, and Grease (FOG) Blockage Control Program Report

Task 3 Collection System Assessments

- 3.1 Sewer Pipe and Maintenance Hole Inspection and Condition Assessment
- 3.2 Capacity Assessment

Task 4 Capacity Assurance

- 4.1 Short-term Contingency Plan
- 4.2 Capacity Assurance Plan - (Not included in this scope of work)

Task 5 Infrastructure Renewal – (Not included in this scope of work)

Task 6 Implementation Study and Report

Task 7 Support with Reporting to EPA

Task 8 Workshops with SMCS and Tributary Agencies

Task 9 Project Management

- 9.1 General Project Management
- 9.2 Kickoff Meeting

Task 1 Spill Response, Recordkeeping, Notification, and Reporting

RMC will review the procedures that each agency has developed in their Overflow Emergency Response Plans prepared to comply with State and RWQCB Sewer System Management Plan (SSMP) requirements. These procedures relate to the response, containment, recovery and clean up of spilled sewage. They also relate to the notification of responders, the estimation of spill volume, notification of the public, recording keeping, and reporting to regulatory agencies. Based on this review, and its experience with other similar agencies, RMC will recommend enhancements to these management practices that will maximize compliance with the EPA Order.

RMC will recommend collaborative management activities and approaches that the agencies named in the EPA Order can undertake to increase cost effectiveness, while maximizing progress toward the abatement of overflows. RMC will also make recommendations that will provide consistency in reporting of information to the regulatory agencies that will streamline information preparation and regulatory review.

RMC will coordinate with the individual agencies to implement the recommended enhancements and compile the responses of each agency into an overall report to the EPA. The report will be submitted to the EPA by 15 October 2008 as stipulated by the EPA Order.

Task 2 Collection System Maintenance and Management

2.1 Sewer System Cleaning and Root Control Program

RMC will review current activities of each agency regarding system cleaning and root control. Based on this review, RMC will make recommendations to ensure that the all collection systems are entirely cleaned within three years. RMC will also make recommendations on management practices that ensure hot spots are addressed and blockage related spills are abated and documented. RMC will review and make recommendations to enhance and document the rationale used to set priorities within the Cleaning and Root Control Program.

RMC will review the overall staffing available for the Cleaning and Root Control Program, and based on best utility practice at other agencies, make recommendations regarding the level of staffing (near term and long term), equipment to be purchased, efficient use of private service contractors, and the degree to which the individual agencies can share staff, equipment and other resources.

The programs from the individual agencies will be aggregated into a single overall report, which will be submitted to the EPA by 15 October 2008.

2.2 Maintenance Management System

RMC will identify options and make preliminary recommendations on the computerized maintenance management system (MMS) the agencies should obtain to track and schedule completion of the sewer cleaning, maintenance, repairs, and sewer system overflows included shall be consideration for a middle to include pump station and WWTF equipment and facilities. RMC will also make recommendations on the functionality that the MMS should have and the GIS platform that should be used for location and display of collection system assets. RMC will review the ICOM MMS that is currently being used by the City of Sausalito and SMCSO, compare it with other readily available systems, and make recommendations whether this system is the most appropriate system to use in the future.

RMC will review the status and form of the current information data bases and mapping used by Agencies and make recommendations to enhance their accuracy, ease of use, and ease of input to the MMS system.

Because the EPA Order requires that the MMS be implemented by 15 October 2008, which may be unreasonably early, RMC will assist Agencies in coordination and negotiation with the EPA and RWQCB regarding the time frame for implementation and scope of the MMS.

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2.3 Pump Station Reliability Certification – (Not included in this scope.)

(Intentionally Blank)

2.4 Fats, Oils, and Grease (FOG) Blockage Control Program Report

RMC will review the FOG control program underway at Agencies and make recommendations to enhance the program's effectiveness in reducing overflows caused by FOG blockages. RMC will recommend the format of reporting locations and dates of FOG induced spills, as well as, the location and dates of sewer cleaning, so that data can be easily entered into the future MMS and GIS. Based on this data, the effectiveness of the sewer cleaning, source control, and public education will be assessed. Using the findings of the analysis, RMC will recommend enhancements or changes to increase the effectiveness of the FOG control program.

RMC will develop an overall report for submission to EPA documenting the FOG Control program and its effectiveness and recommended modifications. The report will be submitted to EPA by 15 October 2008.

Task 3 Collection System Assessments

3.1 Sewer Pipe and Maintenance Hole Inspection and Condition Assessment

RMC will review the existing plans and procedures each agency has for the inspection, condition assessment, and maintenance of their collection systems and maintenance holes. RMC will assess the adequacy and consistency of the existing plans and procedures and previously collected inspection data to meet the EPA mandated deadline of completing a system-wide condition assessment by 15 April 2010. RMC will make recommendations on new programs, enhancements or changes needed to meet this deadline.

Using the information described above, RMC will develop the 15 October 2008 report stipulated by the EPA Order describing how all Agencies will meet the 15 April 2010 deadline for completing a system-wide condition assessment.

RMC will review existing and develop new consistent condition rating codes and data format to be used in TV and maintenance hole inspections of all member agency collection systems so as to allow a consistent condition assessment methodology and potentially a common MMS to be shared by all member agencies.

RMC will develop recommendations regarding the use of service contractors vs the development of shared in-house resources and capabilities that the member agencies could jointly develop to meet long-term needs for sewer inspection and condition assessment.

RMC will document the results of Agencies' assessment inspections in compliance with the 15 October 2010 report stipulated in the EPA Order.

3.2 Capacity Assessment

RMC will review mapping of the collection systems and identify appropriate sites for temporary and potential permanent flow meters and rain gauges needed to comply with the EPA Order and provide sufficient data for performing the capacity assessment. Because the EPA Order requires that the flow monitors be installed by 15 October 2008, which may be unreasonably early, RMC will assist SMCS D in coordination and negotiation with the EPA and RWQCB regarding the time frame for implementation of the flow monitoring program.

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Task 4 Capacity Assurance

4.1 Short-term Contingency Plan

RMC will develop a short term contingency plan to eliminate overflows from the SMCSD treatment plant. Development of this plan will include assessment of various flow routing alternatives within the plant and equalization basins, and optimization of pumping and treatment capacities within the treatment plant itself. (The majority of this work has been completed as part of the Wet Weather Conveyance and Treatment Evaluation report dated February 2008. The findings and recommendations from this report will form the basis of the Short-term Contingency Plan.)

RMC will also evaluate operation changes during wet weather events including but not limited to pump station flow modulation and tanker truck collection and conveyance.

RMC will develop a report for submission to the EPA by 15 October 2008 describing the alternatives available and the recommended improvements and operational changes that would eliminate overflows at the treatment plant.

RMC will assist Agencies in negotiations with the EPA and RWQCB regarding the basis of design for containment of wet weather flows (which will impact cost), and the time line for implementation of capital improvements.

4.2 Capacity Assurance Plan – (Not included in this scope.)

(Intentionally Blank)

Task 5 Infrastructure Renewal – (Not included in this scope.)

(Intentionally Blank)

Task 6 Implementation Study and Report

RMC will develop a report to the EPA identifying the opportunities and options for Agencies to collaborate on joint efforts to meet the requirements of the EPA Order. Because the individual collection systems and treatment plant function as an integrated hydraulic unit, significant opportunities will be available to lower costs, and increase effectiveness if a collaborative approach is taken.

The report will address the metrics stipulated in the EPA Order and will be submitted by 15 October 2008. It is anticipated that this report will primarily draw from, and summarize the collaborative approaches identified in, the previous tasks.

Task 7 Support with Reporting to EPA

The EPA Order stipulates quarterly reporting of overflows and annual progress reports. RMC will assist Agencies in these reporting requirements by providing forms and templates that encompass the EPA stipulated metrics and which can be used by all member agencies. This approach will provide consistent reporting to EPA.

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Task 8 Workshops with SMCS D and Tributary Agencies

RMC will prepare and attend up to four workshops with Agencies, and regulators to discuss the findings, implications, and progress of the work described herein. These workshops will also be used to encourage collaborative action by all of the affected agencies and to provide a common ground for action by the Agencies. In addition, RMC will be available by teleconference.

Task 9 Project Management

RMC will be responsible for managing the overall project to completion. The purpose of this task is to establish and maintain effective project management and communication for the project among the team and with Agencies.

9.1 General Project Management

RMC will provide project management as required to lead and coordinate project team, communicate information, perform the work, produce deliverables, and to report and control project costs and schedule performance. Schedule, status reports, and budget updates will be provided monthly. Monthly project status reports will be used to communicate progress on the project, upcoming work activities, and to identify and resolve project issues.

9.2 Kickoff Meeting

RMC will prepare for and attend a kickoff meeting with the Agencies. The purpose of the kickoff meeting is to introduce the project team, discuss communication protocols and confirm the overall approach to the work.

Information to be Provided by Agencies

It is assumed that each agency will provide a liaison for the RMC team to work with to gather and review maps, files, and data. Information to be provided includes the following:

- Existing Sewer System Management Plans, including Overflow Emergency Response Plans
- Historical SSO data and SSO reports to the RWQCB
- Available sewer maintenance data (sewer segments cleaned, dates) and hotspot list
- Contracts with sewer maintenance companies
- Information on previous sewer, pump station, and force main repairs/rehabilitation/upgrade projects
- Pump station data (record drawings, pump specifications, pump curves, operating set points)
- Information on existing FOG source control program
- Available historical sewer inspection data
- Available sewer system maps and GIS or CAD files
- Available sewer inventory data (pipe sizes, lengths, material, installation dates, invert elevations, manhole rims elevations)
- Available GIS or CAD base mapping (parcels and streets)
- Available historical flow monitoring data
- Previous reports or other documents related to the sanitary sewer system

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Additional Services

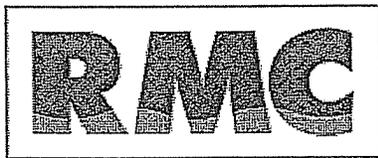
If authorized, in writing, RMC may provide additional services under this Project. Level of effort and fee for additional services will be negotiated at the time that the services are requested.

Schedule of Deliverables for EPA Compliance Order

Listed below is a summary of the reports or responses that will be submitted to the EPA by October 15, 2008:

- II.A. Spill Response Plan
- III.A.1. Cleaning and Root Control Plan
- III.B.1. Implementation of MMS
- III.D. FOG Program Report
- IV.A.1. Inspection and Assessment Plan
- IV.A.2. Initial Assessment Report
- IV.B.1. Install Flow Metering Plan
- V.A. Short-Term Contingency Plan
- VII. Implementation Study Report

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**RMC Water and Environment
2008 Standard Billing Rates
(Effective 12/29/2007)**

Employee Classifications	Hourly Billing Rate
Principal 3	\$245
Principal 2	\$235
Principal 1	\$225
Sr. Project Manager 3	\$220
Sr. Project Manager 2	\$215
Sr. Project Manager 1	\$210
Project Manager 3	\$205
Project Manager 2	\$195
Project Manager 1	\$185
Project Engineer 3	\$175
Project Engineer 2	\$165
Project Engineer 1	\$155
Environmental Planner/Scientist 3	\$165
Environmental Planner/Scientist 2	\$155
Environmental Planner/Scientist 1	\$145
Assistant Professional	\$125
Sr. CAD Designer	\$135
CAD Designer	\$125
Sr. Graphic Designer/Artist	\$125
Graphic Designer/Artist	\$115
Sr. Project Accountant	\$125
Project Accountant	\$115
Sr. Project Administrator	\$115
Project Administrator	\$105
Expert Witness	Rate x 2.0
Project Technology & Communication (PTC) Charges	3% of Labor Charges
Other Direct Costs	Cost + 10%
Subconsultants	Cost + 10%

The individual hourly rates include salary, overhead and profit. Other direct costs (ODCs) such as reproduction, delivery, mileage (rates will be those allowed by current IRS guidelines), and travel expenses will be billed at actual cost plus 10%. Subconsultants will be billed at actual cost plus 10%. RMC reserves the right to adjust its hourly rate structure, PTC charges, and ODC markup at the beginning of the calendar year for all ongoing contracts.

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**Attachment B - Fee Estimate
Sausalito-Marín City Sanitary District
2008-09 Flow Monitoring Program**

Tasks	RMC Labor Costs							Totals					
	Project Manager	Project Engineer	Technical Staff	Senior Technical Staff	CAD/ Graphics	Admin	Total Hours	Total Labor Costs (1)	ODCs (2)	Project Tech. Charge (3)	RMC Total	Sub-Consultant Total (4)	Total Fee
Task 1: Flow Monitoring Program	\$225	\$185	\$160	\$225	\$120	\$105							
1.1 Field work coordination		8		4			12	\$2,380	\$100	\$71	\$2,561	\$88,000	\$90,561
1.2 Data review during monitoring period		8	40	4			52	\$8,780		\$263	\$9,043		\$9,043
Subtotal Task 1:	0	16	40	8	0	0	64	\$11,160	\$100	\$335	\$11,605	\$88,000	\$99,605
Task 2: Summarize Data and Prepare Report													
2.1 Prepare data summaries and plots	2	16	16	8			52	\$9,040		\$271	\$9,311		\$9,311
2.2 Flow monitoring report	2	24	52	16	0	4	98	\$17,230	\$300	\$517	\$18,077	\$0	\$18,077
Subtotal Task 2:	4	40	68	24	0	4	192	\$26,270	\$300	\$788	\$27,358	\$0	\$27,358
Task 3: Project Management and Coordination													
3.1 - Project administratin	2	4				6	12	\$1,820		\$55	\$1,875	\$0	\$1,875
3.2 - Meetings	4	8		6		6	18	\$3,730	\$100	\$112	\$3,952		\$3,952
Subtotal Task 3:	6	12	0	6	0	6	30	\$5,550	\$100	\$167	\$5,827	\$0	\$5,827
TOTAL	8	52	92	30	0	10	192	\$33,920	\$500	\$1,013	\$36,433	\$88,000	\$124,933

Note: Estimated cost for extension of monitoring period is \$9,000/week.

1. The individual hourly rates include salary, overhead, and profit. Consultant reserves the right to adjust its hourly rate at the start of the calendar year.
2. Other direct costs (ODCs) include large reproduction jobs, mileage, and travel expenses.
3. Project Technology and Communication Charge (3% of labor cost) includes telecommunications, computer usage, and regular reproduction jobs.
4. Subconsultant costs includes 10% RMC markup.

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**SMCSD 2008-09 Temporary Flow Monitoring Program
Installed Monitoring Sites**

Agency	Meter ID	Proposed Location (MH ID or Pump Station)	Final Location (if different)	Pipe Size	Location	Notes
TCSD	T-1	2.002	3.084	10	Browning betw. Shasta & Northern	Isolates Basin 2 and eastern portion of Basin 3
TCSD	T-2	3.002	3.005	8	Northern Ave. w/o Browning	Isolates western portion of Basin 3
TCSD	T-3	1.002	1.009	8	Pinehill Rd at Springside	Isolates western portion of Basin 1. Meter in outlet pipe
TCSD	T-4	4.001		10	Maple St. s/o Shoreline Hwy.	
TCSD	T-5	5.126		14	Laurel Way betw. Shoreline Hwy. & Jean St.	
TCSD	T-6	6.003		6	Esmt. betw. Enterprise Concourse & Bell Lane PS	
TCSD	T-7	5.030	5.040	10	Marin Ave. at Poplar St.	Original proposed sites not suitable hydraulically
SMCSD	MC-1	Highway Booster PS		--	Adj. to Hwy. 101 s/o Shoreline Hwy.	Logger not installed; will use SCADA data
SMCSD	MC-2	Marin City PS	550200	15	Parking lot behind Best Buy	Influent to Marin City PS
SMCSD	MC-3	Drake PS	550500	8	Parking lot near Best Buy	At discharge end of force main
Sausalito	S-1A	100001	100100	10	Second St. at Main St.	Flow from south (only minor flow coming from north)
Sausalito	S-1B		100100	6	Main St. at Second St.	Flow from west
Sausalito	S-1C		120100	6	Front St. at Richardson St.	Meter in outlet pipe?
Sausalito	S-2	Princess St. PS	1700100	10	Bridgeway	Influent to Princess St. PS (very corroded DIP)
Sausalito	S-3	Anchor St. PS		--	Anchor St. at Humboldt Ave.	Pump logger
Sausalito	S-4	210500/210600	210300	6	Bridgeway at Pine St.	
Sausalito	S-5	220000/220101	220101	6	Litho St. at Caledonia St.	Meter in outlet pipe
Sausalito	S-6	310000/310100	310100	8	Spring St. at Bridgeway	Meter in outlet pipe
Sausalito	S-7	370050/370100	370200	6	Nevada St. w/o Bridgeway	
Sausalito	S-8	440300 or Whiskey Springs PS	PS	--	Coloma St. at Bridgeway	Pump logger
Sausalito	S-9	Gate 5 PS		--	Gate 5 Road at Coloma St.	Logger not installed; will use SCADA data
SMCSD	S-10	Scotty's PS	PS	--	Coloma St. at Bridgeway	Pump logger in Whiskey Springs PS vault

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