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**ENVIRONMENTAL ENGINEERING, INC.**  
6620 Owens Drive, Suite A • Pleasanton, CA 94588  
TEL (925)734-6400 • FAX (925)734-6401

January 5, 2009

Ms. Molly Ong  
East Bay Municipal Utility District  
EDMUD – Mail Slot #702  
P. O. Box 24055  
Oakland, CA 94623-1055

Re: 3609 International Boulevard, Oakland, California 94601  
**Wastewater Discharge Permit No. 504-27421**

Dear Ms. Ong:

Enclosed is SOMA's "Semi-Annual Technical Report: Treatment System Discharge to EBMUD Sewer for Permit No. 504-27421 from July 2008 to December 2008" for the subject site. This report has been uploaded to the State's GeoTracker database.

Thank you for your time in reviewing our report. If you have any questions or comments, please call me at (925) 734-6400.

Sincerely,

Mansour Sepehr, PhD., PE  
Principal Hydrogeologist

Enclosure

cc: Mr. Abolghassem Razi w/enclosure  
Mr. Jerry Wickham w/o enclosure  
Alameda County Dept. of Env. Health



**Semi-Annual Technical Report:  
Treatment System Discharge to EBMUD Sewer  
For Permit No. 5042742 1  
July 2008 through December 2008**

**Tony's Express Auto Service  
3609 International Boulevard  
Oakland, California**

**January 5, 2009**

**Project 2333**

**Prepared for  
Tony's Express Auto Service  
3609 International Boulevard  
Oakland, California**



ENVIRONMENTAL ENGINEERING, INC.

6620 Owens Drive Suite A Pleasanton CA 94588 Ph: 925.734.6400 F: 925.734-6401 [www.somaenv.com](http://www.somaenv.com)

## Certification Statement

Chief Executive Officer

Abolghassem Razi  
Name


Owner  
Title

3609 International Boulevard  
Street Address

Oakland  
City

94601  
Zip

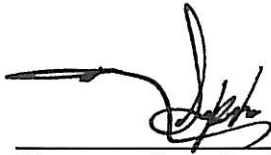
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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.

  
Signature

1-5-09  
Date

## CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of Mr. Abolghassem Razi, property owner of 3609 International Boulevard, Oakland, California, to comply with East Bay Municipal Utility District requirements for discharge of extracted and treated groundwater resulting from cleanup of groundwater polluted by fuel leaks and other related wastes.



Mansour Sepehr, PhD, PE  
Principal Hydrogeologist



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## **1. INTRODUCTION**

This report presents a record of wastewater discharged from the remediation system located at 3609 International Boulevard, Oakland, California into the East Bay Municipal Utility District (EBMUD) sewer system from July 2008 through December 2008. The treatment system is operated by SOMA Environmental Engineering, Inc. (SOMA). SOMA prepared this report on behalf of Mr. Abolghassem Razi, the property owner.

## **2. TREATMENT SYSTEM OPERATION**

The treatment system began operating on December 6, 1999. Approximately 4,017,361 gallons of groundwater have been treated and discharged into the EBMUD sewer system (as of December 22, 2008).

SOMA has conducted regular maintenance and sampling of the treatment system since system startup. Influent samples have been collected from the 200-gallon holding tank. Samples have been collected from effluent of the 2,000-pound granular activated carbon unit (GAC-1) and the treatment system effluent (PSP#1).

Table 1 shows the total volume of effluent discharged into the EBMUD sewer system, laboratory analysis results of samples collected from effluent of the GAC-1 unit and the treatment system, and pertinent maintenance history.

Appendix A includes laboratory reports for treatment system samples collected from July 2008 through December 2008.

## **3. CONCLUSIONS AND RECOMMENDATIONS**

From the last reporting date, June 13, 2008, to December 22, 2008, approximately 82,011 gallons of groundwater have been treated and discharged into the on-site sewer main;

1. The permit specifies an allowable discharge rate of approximately 1,900 gallons per day. During this reporting period, approximately 430 gallons/day were discharged to the site sewer main.
2. Therefore, based on the discharge flow rate and non-detectable system effluent concentration levels, the remedial system has remained in compliance with the EBMUD permit conditions.

# **TABLE 1**

## **Total Volume of Water Treated, Operational Data, and Effluent and GAC-1 Analytical Results**

**Table 1**  
**Total Volume of Water Treated, Historical Operational Data,**  
**and Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples**  
**3609 International Boulevard, Oakland, California**

Month	Date	Effluent	Lab Results For PSP #1 <sup>1</sup> and GAC-1 Samples					
		Totalizer Reading (gallons)	MtBE <sup>2</sup> (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
<b>2008</b>								
December	12/11/2008	4,013,030	<0.5	<50	<0.5	<0.5	<0.5	<0.5
			<0.5	<50	<0.5	<0.5	<0.5	<0.5
September	9/8/2008	3,973,338	<0.5	<50	<0.5	<0.5	<0.5	<0.5
			<0.5	<50	<0.5	<0.5	<0.5	<0.5
June	6/9/2008	3,927,778	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
May	5/21/2008	Polishing drum changed						
March	3/4/2008	3,839,508	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
<b>2007</b>								
October	10/31/2007	3,673,410	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
July	7/27/2007	3,643,880	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
May	5/17/2007	3,590,070	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
April	4/27/2007	3,561,230	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
	4/20/2007	3,546,800	Startup of groundwater extraction from the new extraction well EX-1. As of this date, groundwater is being extracted from three wells at the site (EX-1, West Riser, and Center Riser).					
March	3/16/2007	3,528,090	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
February	2/22/2007	3,510,560	<0.5	<50	<0.5	<2.0	<0.5	<2.0
	2/19/2007	3,508,300	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
January	1/16/2007	3,488,140	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			1.37	<50	1.68	<2.0	1.25	<2.0



**Table 1**  
**Total Volume of Water Treated, Historical Operational Data,**  
**and Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples**  
**3609 International Boulevard, Oakland, California**

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For <b>PSP #1</b> <sup>1</sup> and <b>GAC-1</b> Samples					
			MtBE <sup>2</sup> (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
<b>2006</b>								
December	12/22/2006	3,469,890	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
November	11/20/2006	3,455,980	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0
October	10/18/2006	3,447,850	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
September	9/27/2006	3,441,500	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
August	8/14/2006	3,425,340	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
July	7/24/2006	3,414,800	<0.5 <0.5	<50 <50	<0.5 0.94	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
June	6/15/2006	3,387,940	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
	6/7/2006	3,379,880	<0.5 2.89	<50 <50	<0.5 5.3	<2.0 <2.0	<0.5 1.24	<1.0 4.91
May	5/18/2006	3,350,260	replaced existing 200 gallon holding tank with newer 200 gallon tank					
May	5/11/2006	3,337,750	<0.5 0.61	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
April	4/19/2006	3,268,110	<0.5 1.66	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
	4/10/2006	3,236,770	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					

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Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For <b>PSP #1</b> <sup>1</sup> and <b>GAC-1</b> Samples					
			MtBE <sup>2</sup> (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
<b>2006</b>								
March	3/10/2006	3,220,570	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
February	2/10/2006	3,186,590	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
January	1/4/2006	3,122,610	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
<b>2005</b>								
December	12/9/2005	3,081,750	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
November	11/14/2005	3,072,540	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
October	10/17/2005	3,065,260	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
September	9/29/2005	3,060,640	Replaced existing 2000 lb carbon vessel with newer 2000 lb vessel, also replaced 55 gallon polishing vessel					
	9/12/2005	3,055,676	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
August	8/8/2005	3,042,586	<0.5 0.51	<200 <200	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
July	7/7/2005	3,026,010	<0.5 <0.5	<200 <200	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
June	6/9/2005	3,000,386	<0.5 0.61	<200 <200	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
May	5/9/2005	2,971,430	<0.5 <0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0
	5/4/2005	2,964,270	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel totalizer changed at meter reading of 2,189,270					
April	4/4/2005	2,904,500	<0.5 <0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0

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			MtBE <sup>2</sup> (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
<b>2005</b>								
March	3/21/2005	2,874,170	<0.5 <0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0
February	2/14/2005	2,828,000	55 Gallon Drum Changed Out					
	2/7/2005	2,819,000	<5.0 <5.0	<50 <50	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0
January	1/19/2005	2,775,000	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
	1/3/2005	2,730,480	3.6 3.8	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
<b>2004</b>								
December	12/6/2004	2,667,620	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0
November	11/8/2004	2,631,600	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
October	10/13/2004	2,606,420	< 2.0 <2.0	< 50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
September	9/13/2004	2,594,390	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
August	8/25/2004	2,586,010	55 Gallon Drum Changed Out					
	8/9/2004	2,581,250	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
July	7/13/2004	2,568,830	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
	7/21/2004	2,564,710	55 Gallon Drum Changed Out					
June	6/14/2004	2,549,470	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
May	5/26/2004	2,530,000	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
	5/10/2004	2,488,760	Semi Annual Treatment System Meeting With Ebmud					
	5/17/2004	2,518,910	Replaced 55-gallon polishing vessel and restarted the system					
	5/5/2004	2,500,650	Carbon Changed Out and 55 Gallon Drum Changed Out					
	5/3/2004	2,497,350	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
April	4/15/2004	2,436,190	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0

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Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 <sup>1</sup> and GAC-1 Samples					
			MtBE <sup>2</sup> (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
<b>2004</b>								
March	3/17/2004	2,376,200	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
February	2/24/2004	2,276,770	< 5.0 <5.0	< 5.0 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
January	1/27/2004	2,165,220	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
	1/13/2004	2,116,720	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
<b>2003</b>								
December	12/8/2003	2,092,330	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
November	11/17/2003	2,087,670	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
	11/3/2003	2,079,460	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
October	10/13/2003	2,073,060	5.3 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
	10/1/2003	2,072,610	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
September	9/15/2003	2,056,910	<5.0 6	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
	9/2/2003	2,040,040	<5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
August	8/19/2003	2,021,040	<5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
July	7/21/2003	1,995,240	< 5.0 40	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
	7/9/2003	1,990,260	< 5.0 36	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
June	6/18/2003	1,978,560	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
	6/10/2003	1,972,780	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
May	5/21/2003	1,951,830	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
	5/1/2003	1,918,270	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
April	4/11/2003	1,882,440	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0

**Table 1**  
**Total Volume of Water Treated, Historical Operational Data,**  
**and Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples**  
**3609 International Boulevard, Oakland, California**

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 <sup>1</sup> and GAC-1 Samples						
			MtBE <sup>2</sup> (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)	
<b>2003</b>									
March	3/19/2003	1,846,490	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
February	2/25/2003 2/19/2003	1,804,960 1,791,720	replaced 55-gallon polishing vessel with new 55 gallon carbon drum						< 5.0 < 5.0
January	1/27/2003	1,733,500	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	1/2/2003	1,675,600	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
<b>2002</b>									
December	12/10/2002	1,672,870	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
November	11/22/2002	1,668,650	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	11/13/2002	1,664,780	replaced gasket on top of 2000 lb GAC vessel, slight leak was detected						
	11/7/2002	1,663,880	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
October	10/16/02 <sup>3</sup>	1,661,590	< 310 < 0.5	2,000 Y Z < 50	< 310 < 0.5	< 310 < 0.5	< 310 < 0.5	< 310 < 0.5	
September	9/19/2002	1,653,600	< 5 < 5	< 50 < 50	< 5 < 5	< 5 < 5	< 5 < 5	< 5 < 5	
August	8/23/2002	1,641,650	1 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
July	7/23/2002	1,632,834	<5.0 < 5.0	< 50 < 50	<5.0 < 5.0	<5.0 < 5.0	<5.0 < 5.0	<5.0 < 5.0	
June	6/24/2002	1,610,050	1.7 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
May	5/30/2002	1,571,630	< 0.5 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
	5/20/2002	1,548,000	removed newly installed compressor, installed another compressor						
	5/8/2002	1,538,850	installed new compressor						
	5/1/2002	1,529,650	installed new 55 gallon GAC Vessel						
April	4/24/2002	1,528,740	< 0.5 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
	4/1/2002	1,478,500	repaired valve plate assembly on compressor						

**Table 1**  
**Total Volume of Water Treated, Historical Operational Data,**  
**and Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples**  
**3609 International Boulevard, Oakland, California**

Month	Date	Effluent	Lab Results For <b>PSP #1</b> <sup>1</sup> and <b>GAC-1</b> Samples					
		Totalizer Reading (gallons)	MtBE <sup>2</sup> (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
<b>2002</b>								
March	3/25/2002 3/18/2002 3/14/2002	1,478,420 NR 1,478,330	performed carbon change-out on treatment system replaced piston on compressor compressor not building up pressure					
February	2/27/2002	1,449,830	< 0.5 1.1	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5
January	1/22/2002	1,381,370	< 2.0 < 2.0	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5
<b>2001</b>								
December	12/12/2001	1,311,340	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
November	11/2/2001	1,272,660	ND 0.6	ND ND	ND ND	ND ND	ND ND	ND ND
September	9/28/2001	NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
August	8/22/2001	1,243,100	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
July	7/26/2001  7/11/2001	1,227,270  1,226,730	ND ND NA NA	ND ND NA NA	ND ND NA NA	ND ND NA NA	ND ND NA NA	ND ND NA NA
June	6/29/2001  6/26/2001 6/16/2001  6/7/2001	1,224,600  NR 1,216,580  1,216,580	NA ND NA NA	NA ND NA NA	NA ND NA NA	NA ND NA NA	NA ND NA NA	NA ND NA NA
installed new compressor compressor not working, repaired compressor								
May	5/30/2001  5/23/2001  5/17/2001  5/10/2001  5/5/2001	1,205,198  1,194,390  1,182,360  1,166,850  1,151,600	NA NA NA ND ND NA NA	NA NA NA ND ND NA NA	NA NA NA ND ND NA NA	NA NA NA ND ND NA NA	NA NA NA ND ND NA NA	NA NA NA ND ND NA NA
April	4/28/2001  4/21/2001  4/11/2001  4/6/2001	1,135,690  1,113,570  1,082,700  1,065,540	NA NA NA ND NA NA	NA NA NA ND NA NA	NA NA NA ND NA NA	NA NA NA ND NA NA	NA NA NA ND NA NA	NA NA NA ND NA NA

**Table 1**  
**Total Volume of Water Treated, Historical Operational Data,**  
**and Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples**  
**3609 International Boulevard, Oakland, California**

Month	Date	Effluent	Lab Results For PSP #1 <sup>1</sup> and GAC-1 Samples						
		Totalizer Reading (gallons)	MtBE <sup>2</sup> (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
<b>2001</b>									
March	3/29/2001	1,036,330	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	3/21/2001	1,036,070	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	system was re-started								
	3/17/2001	1,035,100	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	belt replaced on compressor								
	3/13/2001	1,032,500	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	
	3/2/2001	996,520	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	3/1/2001	NR	system re-started after carbon change-out						
February	2/28/2001	NR	Carbon Change-out was performed on GAC-1, washed algae from holding tank, cleaned 2000 lb GAC, re-started system System shut down for maintenance and cleaning.						
	2/10/2001	975,490							
January	1/29/2001	957,880	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
<b>2000</b>									
December	12/5/2000	883,000	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
November	11/24/2000	NR	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
	11/1/2000	842,000	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
October	10/1/2000	809,000	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
August	8/27/2000	781,000	ND	ND	ND	ND	ND	ND	
	8/24/2000	778,000							totalizer changed at meter reading of 775,000
July	7/26/2000	726,000	ND	ND	ND	ND	ND	ND	
	7/19/2000	718,000	ND	ND	ND	ND	ND	ND	
	7/13/2000	712,000	ND	ND	ND	ND	ND	ND	
	7/7/2000	706,000	ND	ND	ND	ND	ND	ND	

**Table 1**  
**Total Volume of Water Treated, Historical Operational Data,**  
**and Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples**  
**3609 International Boulevard, Oakland, California**

Month	Date	Effluent	Lab Results For PSP #1 <sup>1</sup> and GAC-1 Samples						
		Totalizer Reading (gallons)	MtBE <sup>2</sup> (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
<b>2000</b>									
June	6/29/2000	700,000	ND	ND	ND	ND	ND	ND	
	6/21/2000	682,220	ND	ND	ND	ND	ND	ND	
May	6/16/2000	669,720	ND	ND	ND	ND	ND	ND	
	6/10/2000	651,200	ND	ND	ND	ND	ND	ND	
	5/31/2000	629,000	ND	ND	ND	ND	ND	ND	
	5/23/2000	603,700	ND	ND	ND	ND	ND	ND	
	5/18/2000	570,000	ND	ND	ND	ND	ND	ND	
April	5/10/2000	530,400	ND	ND	ND	ND	ND	ND	
	4/30/2000	488,300	ND	ND	ND	ND	ND	ND	
	4/18/2000	485,300	ND	ND	ND	ND	ND	0.51	
	compressor stopped, system shut down until April 29, 2000								
	4/10/2000	440,200	ND	ND	ND	ND	ND	ND	
	4/4/2000	390,100	ND	ND	ND	ND	ND	ND	
	4/2/2000	NR	performed a carbon change-out on GAC-1						
March	3/31/2000	NR	replaced GAC-2 with a special GAC designed for removal of MtBE						
	3/24/2000	388,000	ND	ND	ND	ND	ND	ND	
	3/17/2000	357,100	ND	ND	ND	ND	ND	ND	
	3/10/2000	329,000	ND	ND	ND	ND	ND	ND	
	3/3/2000	300,000	transfer overheated, repaired pump, restarted system 3/6/00						
February	2/25/2000	274,000	ND	ND	ND	ND	ND	ND	
	2/18/2000	233,000	ND	ND	ND	ND	ND	ND	
	2/11/2000	190,000	ND	ND	ND	ND	ND	ND	
	2/4/2000	160,800	ND	ND	ND	ND	ND	ND	
January	1/28/2000	130,600	ND	ND	ND	ND	ND	ND	
	1/21/2000	103,435	ND	ND	ND	ND	ND	ND	
	1/17/2000	NR	GAC-1 was replaced with 2,000 lb GAC unit						
	1/14/2000	83,500	second polishing GAC was replaced with 55 gallon GAC unit						
			185	ND	ND	ND	ND	ND	
<b>1999</b>									
December	12/23/1999	51,680	1486	NA	ND	ND	ND	ND	
			ND	NA	ND	ND	ND	ND	
	12/16/1999	30,450	963	NA	ND	ND	ND	ND	
				ND	NA	ND	ND	ND	
	12/9/1999	9,000	230	ND	ND	ND	ND	ND	
Pumping began on December 6, 1999									

Notes:

- The designator "Effluent" used on sampling and laboratory documents refers to samples collected from PSP #1.
  - MTBE was analyzed using EPA Method 8260B, prior to the September 2003. After September 2003, MtBE was only analyzed by EPA Method 8021B.
  - Lab data as shown for Oct. 2002 is erroneous data. During lab analysis a high detection of 2-Butanone was detected in only the effluent sample. The influent sample for 2-Butanone was at only 20 ppb. This caused a high dilution factor causing a high non-detectable value. The high TPH-g value was misrepresentative due to the Y and Z flags.
- ND, < : Not Detected above laboratory reporting limits  
 NA: Not Analyzed  
 NR: Not recorded. Totalizer reading not recorded.  
 Y: Sample exhibits fuel pattern which does not resemble standard  
 Z: Sample exhibits unknown single peak or peaks



# **APPENDIX A**

## **Laboratory Results and Chain of Custody Forms for the Treatment System**

# CHAIN OF CUSTODY

**Curtis & Tompkins, Ltd.**  
 Analytical Laboratory Since 1878  
 2323 Fifth Street  
 Berkeley, CA 94710  
 (510)486-0900 Phone  
 (510)486-0532 Fax

**Analysis**

C&T LOGIN # 205878

Sampler: ERIC GASNER-WOLLAGE

**Project No: 2333**

**Report To: Joyce Bobek**

**Project Name: 3609 International Blvd. Oakland CA**

**Company: SOMA Environmental**

**Turnaround Time: Standard**

**Telephone: 925-734-6400**

**Fax: 925-734-6401**

Lab No.	Sample ID.	Sampling Date	Time	Matrix			# of Containers	Preservative			
				Soil	Water	Waste		HCL	H2SO4	HNO3	ICE
<u>1</u>	<u>PSP-1</u>	<u>9/8/08</u>	<u>1430</u>		*		4 VOAs	*			*
<u>2</u>	<u>GAC-1</u>	<u>9/8/08</u>	<u>1425</u>		*		4 VOAs	*			*
<u>3</u>	<u>INFLUENT</u>	<u>9/8/08</u>	<u>1420</u>		*		4 VOAs	*			*

TPHg, BTEX, MIBE 8260B											

**Notes: EDF OUTPUT REQUIRED**

<b>RELINQUISHED BY:</b>	<b>RECEIVED BY:</b>
<u>[Signature]</u> DATE/TIME <u>9/8/08 1549</u>	<u>[Signature]</u> DATE/TIME <u>9/9/08 1002</u>
<u>Joyce Bobek</u> DATE/TIME <u>9/9/08 10:02</u>	
DATE/TIME	DATE/TIME

COOLER RECEIPT CHECKLIST



Login # 205878 Date Received 9-9-08 Number of coolers 1

Client SOMA Project 3609 International Blvd

Date Opened 9-9-08 By (print) F Nichols (sign) [Signature]

Date Logged in [check] By (print) [check] (sign) [check]

1. Did cooler come with a shipping slip (airbill, etc)? YES NO

Shipping info

2A. Were custody seals present? YES (circle) on cooler on samples NO (X) NO

How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

7. Temperature documentation:

Type of ice used: Wet (X) Blue/Gel None Temp(C)

Samples Received on ice & cold without a temperature blank (X)

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO

If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? YES NO N/A

16. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

Blank lines for comments



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 205878
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2333
Location : 3609 International Blvd
Level : II

Table with 2 columns: Sample ID, Lab ID. Rows include PSP-1, GAC-1, and INFLUENT.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: [Handwritten Signature]
Project Manager

Date: 09/22/2008

Signature: [Handwritten Signature]
Senior Program Manager

Date: 09/22/2008

**CASE NARRATIVE**

Laboratory number: 205878  
Client: SOMA Environmental Engineering Inc.  
Project: 2333  
Location: 3609 International Blvd  
Request Date: 09/09/08  
Samples Received: 09/09/08

This hardcopy data package contains sample and QC results for three water samples, requested for the above referenced project on 09/09/08. The samples were received cold and intact.

**Volatile Organics by GC/MS (EPA 8260B):**  
No analytical problems were encountered.

Gasoline by GC/MS			
Lab #:	205878	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	09/08/08
Units:	ug/L	Received:	09/09/08
Diln Fac:	1.000		

Field ID:	PSP-1	Batch#:	142316
Type:	SAMPLE	Analyzed:	09/10/08
Lab ID:	205878-001		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-125
1,2-Dichloroethane-d4	111	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	114	80-122

Field ID:	GAC-1	Batch#:	142316
Type:	SAMPLE	Analyzed:	09/10/08
Lab ID:	205878-002		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	109	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	116	80-122

ND= Not Detected  
 RL= Reporting Limit

<b>Gasoline by GC/MS</b>			
Lab #:	205878	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	09/08/08
Units:	ug/L	Received:	09/09/08
Diln Fac:	1.000		

Field ID:	INFLUENT	Batch#:	142369
Type:	SAMPLE	Analyzed:	09/11/08
Lab ID:	205878-003		

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
Gasoline C7-C12	300	50
MTBE	17	0.50
Benzene	13	0.50
Toluene	7.3	0.50
Ethylbenzene	4.9	0.50
m,p-Xylenes	25	0.50
o-Xylene	9.9	0.50

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
Dibromofluoromethane	97	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	103	80-122

Type:	BLANK	Batch#:	142316
Lab ID:	QC459547	Analyzed:	09/10/08

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
Gasoline C7-C12	ND	50
MTBE	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
Dibromofluoromethane	98	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	112	80-122

ND= Not Detected  
RL= Reporting Limit

**Gasoline by GC/MS**

Lab #:	205878	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	09/08/08
Units:	ug/L	Received:	09/09/08
Diln Fac:	1.000		

Type:	BLANK	Batch#:	142369
Lab ID:	QC459753	Analyzed:	09/11/08

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-125
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	112	80-122

ND= Not Detected  
 RL= Reporting Limit



**Batch QC Report**

<b>Gasoline by GC/MS</b>			
Lab #:	205878	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	142316
Units:	ug/L	Analyzed:	09/10/08
Diln Fac:	1.000		

Type: BS Lab ID: QC459548

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	25.49	102	70-125
Benzene	25.00	24.18	97	80-120
Toluene	25.00	24.60	98	80-120
Ethylbenzene	25.00	25.76	103	80-122
m,p-Xylenes	50.00	51.96	104	80-126
o-Xylene	25.00	25.41	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	106	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	104	80-122

Type: BSD Lab ID: QC459549

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	25.00	25.24	101	70-125	1	20
Benzene	25.00	23.18	93	80-120	4	20
Toluene	25.00	24.27	97	80-120	1	20
Ethylbenzene	25.00	24.96	100	80-122	3	20
m,p-Xylenes	50.00	51.08	102	80-126	2	20
o-Xylene	25.00	24.76	99	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	104	80-122

RPD= Relative Percent Difference

## Batch QC Report

Gasoline by GC/MS			
Lab #:	205878	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	142316
Units:	ug/L	Analyzed:	09/10/08
Diln Fac:	1.000		

Type: BS Lab ID: QC459566

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,007	101	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-122

Type: BSD Lab ID: QC459567

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	986.7	99	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	101	80-122

RPD= Relative Percent Difference

**Batch QC Report**

<b>Gasoline by GC/MS</b>			
Lab #:	205878	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	142369
Units:	ug/L	Analyzed:	09/11/08
Diln Fac:	1.000		

Type: BS Lab ID: QC459754

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	25.69	103	70-125
Benzene	25.00	25.62	102	80-120
Toluene	25.00	25.84	103	80-120
Ethylbenzene	25.00	26.38	106	80-122
m,p-Xylenes	50.00	52.74	105	80-126
o-Xylene	25.00	26.06	104	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	104	80-122

Type: BSD Lab ID: QC459755

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	25.00	25.66	103	70-125	0	20
Benzene	25.00	26.81	107	80-120	5	20
Toluene	25.00	26.12	104	80-120	1	20
Ethylbenzene	25.00	25.72	103	80-122	3	20
m,p-Xylenes	50.00	52.13	104	80-126	1	20
o-Xylene	25.00	25.43	102	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-125
1,2-Dichloroethane-d4	108	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	104	80-122

RPD= Relative Percent Difference

## Batch QC Report

Gasoline by GC/MS			
Lab #:	205878	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	142369
Units:	ug/L	Analyzed:	09/11/08
Diln Fac:	1.000		

Type: BS Lab ID: QC459761

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,200	1,090	91	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	104	80-122

Type: BSD Lab ID: QC459762

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,200	1,079	90	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-125
1,2-Dichloroethane-d4	100	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	104	80-122

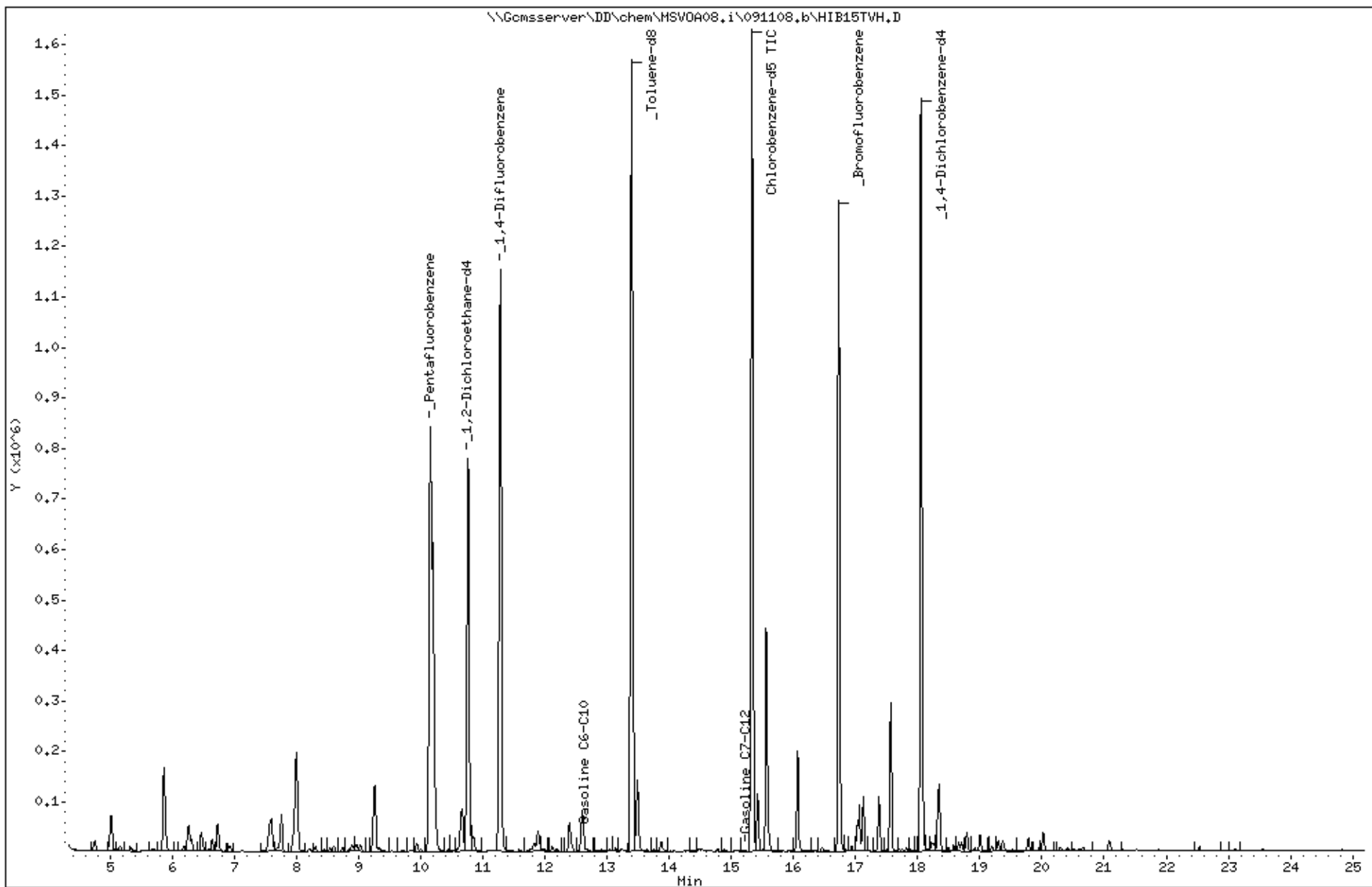
RPD= Relative Percent Difference

Date : 11-SEP-2008 17:30  
Client ID: DYNA P&T  
Sample Info: S,205878-003

Instrument: MSV0A08.i

Operator: voc  
Column diameter: 2.00

Column phase:



Date : 10-SEP-2008 12:59

Client ID: DYNA P&T

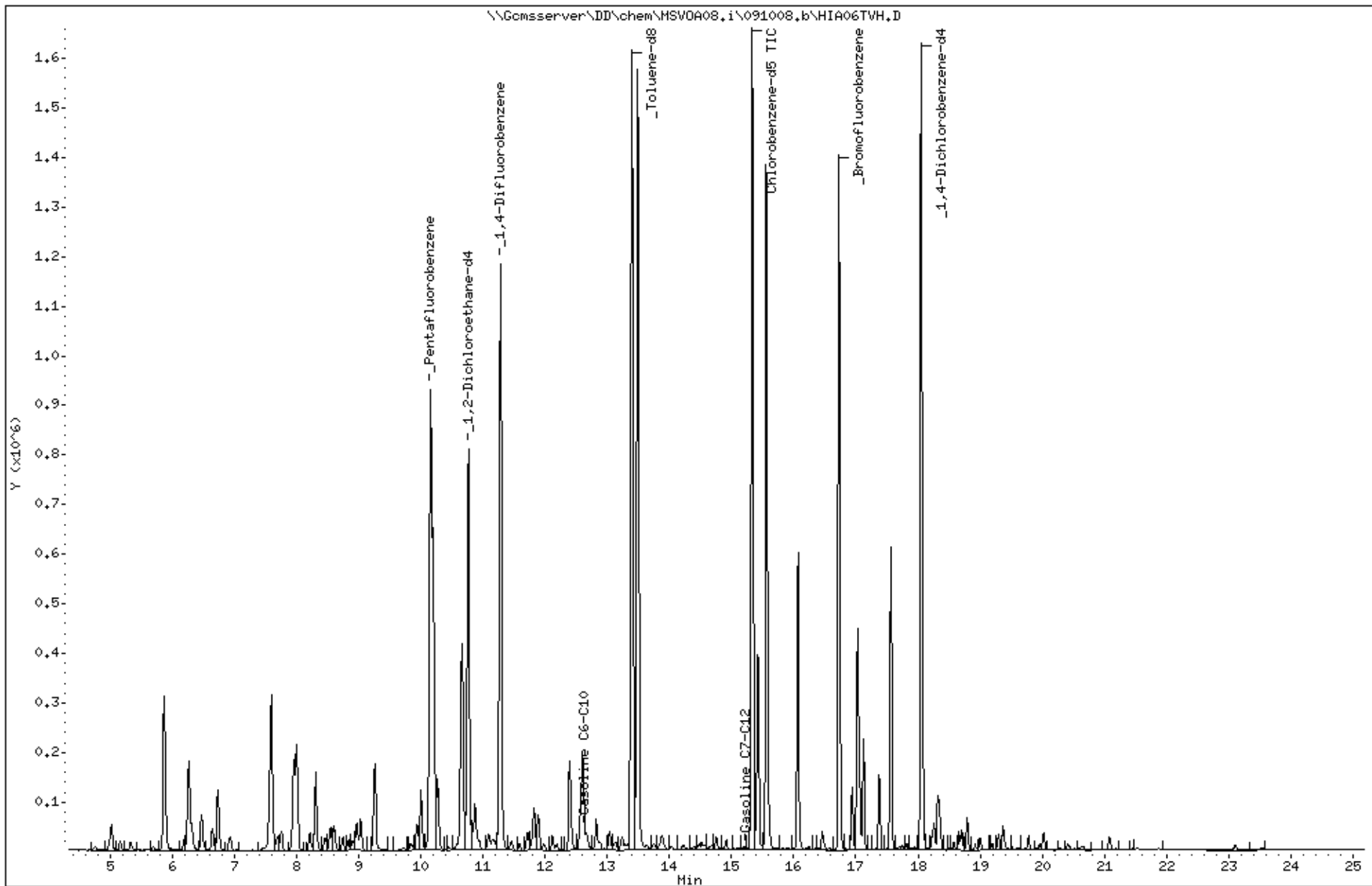
Sample Info: CCV/BS, QC459566, 142316, S9460, 10000X

Instrument: MSV0A08.i

Operator: voc

Column diameter: 2.00

Column phase:





**COOLER RECEIPT CHECKLIST**



Curtis & Tompkins, Ltd.

Login # 208524 Date Received 12/11/08 Number of coolers 1  
 Client SOMEX ENV. Project 3609 INTERNATIONAL BLVD. OAKLAND, CA

Date Opened 12/11/08 By (print) M. VILLONVELLO (sign) [Signature]  
 Date Logged in [initials] By (print) [initials] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) \_\_\_\_\_ YES  NO   
 Shipping info \_\_\_\_\_

2A. Were custody seals present? ...  YES (circle) on cooler on samples  NO   
 How many \_\_\_\_\_ Name \_\_\_\_\_ Date \_\_\_\_\_

2B. Were custody seals intact upon arrival? \_\_\_\_\_ YES NO N/A

3. Were custody papers dry and intact when received? \_\_\_\_\_ YES NO

4. Were custody papers filled out properly (ink, signed, etc)? \_\_\_\_\_ YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) \_\_\_\_\_ YES NO

6. Indicate the packing in cooler: (if other, describe) \_\_\_\_\_

- Bubble Wrap  Foam blocks  Bags  None
- Cloth material  Cardboard  Styrofoam  Paper towels

7. Temperature documentation:  
 Type of ice used:  Wet  Blue/Gel  None Temp(°C) \_\_\_\_\_

Samples Received on ice & cold without a temperature blank

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? \_\_\_\_\_ YES  NO   
 If YES, what time were they transferred to freezer? \_\_\_\_\_

9. Did all bottles arrive unbroken/unopened? \_\_\_\_\_ YES  NO

10. Are samples in the appropriate containers for indicated tests? \_\_\_\_\_ YES  NO

11. Are sample labels present, in good condition and complete? \_\_\_\_\_ YES  NO

12. Do the sample labels agree with custody papers? \_\_\_\_\_ YES  NO

13. Was sufficient amount of sample sent for tests requested? \_\_\_\_\_ YES  NO

14. Are the samples appropriately preserved? \_\_\_\_\_ YES  NO  N/A

15. Are bubbles > 6mm absent in VOA samples? \_\_\_\_\_ YES  NO  N/A

16. Was the client contacted concerning this sample delivery? \_\_\_\_\_ YES  NO   
 If YES, Who was called? \_\_\_\_\_ By \_\_\_\_\_ Date: \_\_\_\_\_

COMMENTS  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

**Laboratory Job Number 208524  
ANALYTICAL REPORT**

SOMA Environmental Engineering Inc.  
6620 Owens Dr.  
Pleasanton, CA 94588

Project : 2333  
Location : 3609 International Blvd. Oakland CA  
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
PSP-1	208524-001
GAC-1	208524-002
INFLUENT	208524-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:   
Project Manager

Date: 12/23/2008

Signature:   
Senior Program Manager

Date: 12/23/2008

### CASE NARRATIVE

Laboratory number: 208524  
Client: SOMA Environmental Engineering Inc.  
Project: 2333  
Location: 3609 International Blvd. Oakland CA  
Request Date: 12/11/08  
Samples Received: 12/11/08

This data package contains sample and QC results for three water samples, requested for the above referenced project on 12/11/08. The samples were received cold and intact.

#### Volatile Organics by GC/MS (EPA 8260B):

High surrogate recoveries were observed for bromofluorobenzene in GAC-1 (lab # 208524-002), INFLUENT (lab # 208524-003), and the method blank for batch 146136. No other analytical problems were encountered.



Gasoline by GC/MS		
Lab #:	208524	Location: 3609 International Blvd. Oakland CA
Client:	SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#:	2333	Analysis: EPA 8260B
Matrix:	Water	Sampled: 12/11/08
Units:	ug/L	Received: 12/11/08
Diln Fac:	1.000	

Field ID: INFLUENT                      Batch#: 146136  
 Type: SAMPLE                             Analyzed: 12/17/08  
 Lab ID: 208524-003

Analyte	Result	RL
Gasoline C7-C12	59	50
MTBE	20	0.50
Benzene	1.5	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-125
1,2-Dichloroethane-d4	93	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	126 *	80-122

Type: BLANK                                Batch#: 146064  
 Lab ID: QC475696                         Analyzed: 12/16/08

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-125
1,2-Dichloroethane-d4	90	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	121	80-122

\*= Value outside of QC limits; see narrative  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/MS		
Lab #:	208524	Location: 3609 International Blvd. Oakland CA
Client:	SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#:	2333	Analysis: EPA 8260B
Matrix:	Water	Sampled: 12/11/08
Units:	ug/L	Received: 12/11/08
Diln Fac:	1.000	

Type: BLANK Batch#: 146136  
 Lab ID: QC476024 Analyzed: 12/17/08

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-125
1,2-Dichloroethane-d4	92	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	130 *	80-122

\*= Value outside of QC limits; see narrative  
 ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Gasoline by GC/MS</b>			
Lab #:	208524	Location:	3609 International Blvd. Oakland CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146064
Units:	ug/L	Analyzed:	12/16/08
Diln Fac:	1.000		

Type: BS Lab ID: QC475697

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	18.04	90	70-125
Benzene	20.00	22.21	111	80-120
Toluene	20.00	20.72	104	80-120
Ethylbenzene	20.00	19.95	100	80-122
m,p-Xylenes	40.00	38.06	95	80-126
o-Xylene	20.00	19.55	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-125
1,2-Dichloroethane-d4	87	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	108	80-122

Type: BSD Lab ID: QC475698

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	20.00	19.57	98	70-125	8	20
Benzene	20.00	23.65	118	80-120	6	20
Toluene	20.00	21.98	110	80-120	6	20
Ethylbenzene	20.00	20.69	103	80-122	4	20
m,p-Xylenes	40.00	40.19	100	80-126	5	20
o-Xylene	20.00	20.04	100	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-125
1,2-Dichloroethane-d4	88	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	111	80-122

RPD= Relative Percent Difference

## Batch QC Report

Gasoline by GC/MS			
Lab #:	208524	Location:	3609 International Blvd. Oakland CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146064
Units:	ug/L	Analyzed:	12/16/08
Diln Fac:	1.000		

Type: BS Lab ID: QC475699

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	650.0	596.2	92	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-125
1,2-Dichloroethane-d4	89	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	115	80-122

Type: BSD Lab ID: QC475700

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	650.0	588.9	91	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-125
1,2-Dichloroethane-d4	89	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	115	80-122

RPD= Relative Percent Difference

## Batch QC Report

Gasoline by GC/MS			
Lab #:	208524	Location:	3609 International Blvd. Oakland CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146136
Units:	ug/L	Analyzed:	12/17/08
Diln Fac:	1.000		

Type: BS Lab ID: QC476025

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	18.11	91	70-125
Benzene	20.00	21.35	107	80-120
Toluene	20.00	19.13	96	80-120
Ethylbenzene	20.00	19.01	95	80-122
m,p-Xylenes	40.00	36.17	90	80-126
o-Xylene	20.00	17.87	89	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-125
1,2-Dichloroethane-d4	90	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	115	80-122

Type: BSD Lab ID: QC476026

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	20.00	18.24	91	70-125	1	20
Benzene	20.00	21.75	109	80-120	2	20
Toluene	20.00	19.93	100	80-120	4	20
Ethylbenzene	20.00	18.71	94	80-122	2	20
m,p-Xylenes	40.00	36.62	92	80-126	1	20
o-Xylene	20.00	18.16	91	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-125
1,2-Dichloroethane-d4	91	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	110	80-122

RPD= Relative Percent Difference



## Batch QC Report

Gasoline by GC/MS			
Lab #:	208524	Location:	3609 International Blvd. Oakland CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146136
Units:	ug/L	Analyzed:	12/17/08
Diln Fac:	1.000		

Type: BS Lab ID: QC476027

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	700.0	681.6	97	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-125
1,2-Dichloroethane-d4	93	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	117	80-122

Type: BSD Lab ID: QC476028

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	700.0	659.4	94	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-125
1,2-Dichloroethane-d4	85	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	120	80-122

RPD= Relative Percent Difference

Date : 17-DEC-2008 20:44

Client ID: DYNA P&T

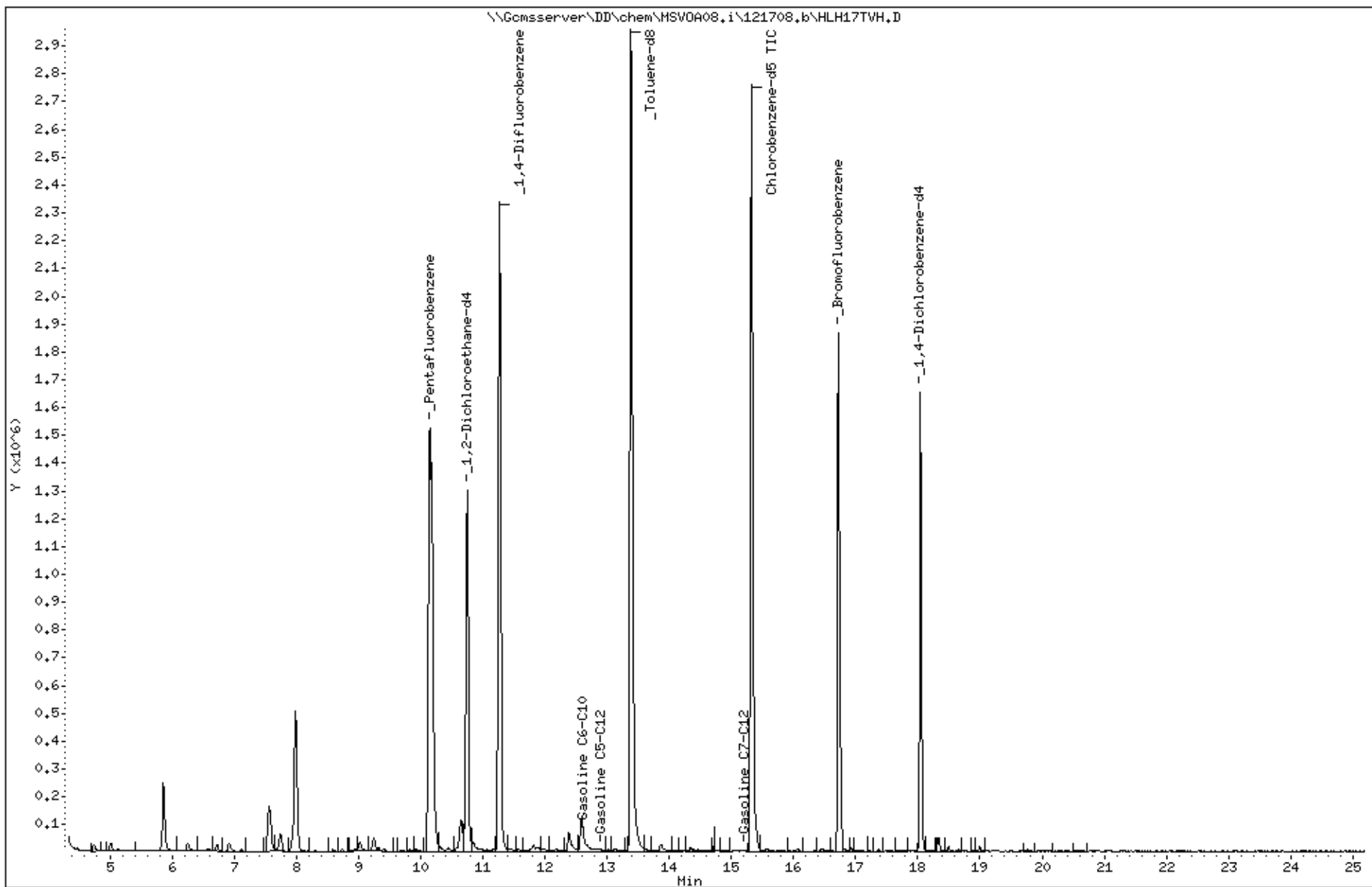
Sample Info: S,208524-003

Instrument: MSV0A08.i

Operator: voc

Column diameter: 2.00

Column phase:



Date : 16-DEC-2008 13:45

Client ID: DYNA P&T

Sample Info: CCV/BS, QC475699, 146064

Instrument: MSV0A08.i

Operator: voc

Column diameter: 2.00

Column phase:

