



**CONESTOGA-ROVERS
& ASSOCIATES**

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TRANSMITTAL

DATE: July 10, 2009 REFERENCE NO.: 060119
PROJECT NAME: 2350 (2368) Harrison Street, Oakland
TO: Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

1:32 pm, Jul 16, 2009

Alameda County
Environmental Health

Please find enclosed: Draft Final
 Originals Other
 Prints

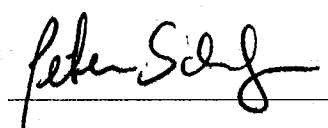
Sent via: Mail Same Day Courier
 Overnight Courier Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Second Quarter 2009

As Requested For Review and Comment
 For Your Use _____

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810
Richard Burge, 490 Grand Avenue, Suite 100, Oakland, CA 94610

Completed by: Peter Schaefer Signed: 

Filing: Correspondence File



Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Denis L. Brown
Shell Oil Products US
HSE - Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Subject: Former Shell Service Station
2350 (2368) Harrison Street
Oakland, California
SAP No. 173318
Incident No. 97743969
Fuel Leak Case No. RO0000505

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is written over a horizontal line.

Denis L. Brown
Project Manager



GROUNDWATER MONITORING REPORT - SECOND QUARTER 2009

FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET
OAKLAND, CALIFORNIA

SAP CODE 173318
INCIDENT NO. 97743969
AGENCY NO. RO0000505

JULY 10, 2009

REF. NO. 060119 (10)

This report is printed on recycled paper.

**Prepared by:
Conestoga-Rovers
& Associates**

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) in accordance with the quarterly reporting requirements of 23 CCR 2652d.

1.1 SITE INFORMATION

Site Address	2350 (2368) Harrison Street, Oakland
Site Use	7-11 Store
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACHCSA, Jerry Wickham
Agency Case No.	RO0000505
Shell SAP Code	173318
Shell Incident No.	97743969

Date of most recent agency correspondence was December 5, 2008.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1) and a groundwater contour and chemical concentration map (Figure 2). Blaine's report, presenting the analytical data, is included in Appendix A. CRA also prepared Table 1, which summarizes analytical data for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons.

Between May 18 and May 21, 2009, CRA drilled four on-site soil borings (B-1 through B-4), drilled two off-site hydropunch borings (HP-1 and HP-2), and installed three soil vapor probes (SVP-1 through SVP-3). CRA's June 26, 2009 *Subsurface Investigation Report* details the results of the soil and groundwater investigations. CRA sampled soil vapor on May 28, 2009, and the results will be provided under separate cover.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Variable
Hydraulic Gradient	Variable
Depth to Water	3.34 to 6.87 feet below top of well casing

2.3 PROPOSED ACTIVITIES FOR NEXT QUARTER

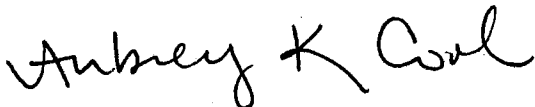
As discussed above, CRA will submit a report detailing the May 2009 soil vapor sampling.

Blaine will gauge and sample wells according to a modified monitoring program. Per State Water Resources Control Board Resolution 2009-0042 adopted May 19, 2009, we will implement a semiannual monitoring and reporting schedule at the site, with sampling conducted during the second and fourth quarters.

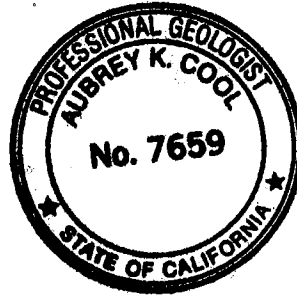
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



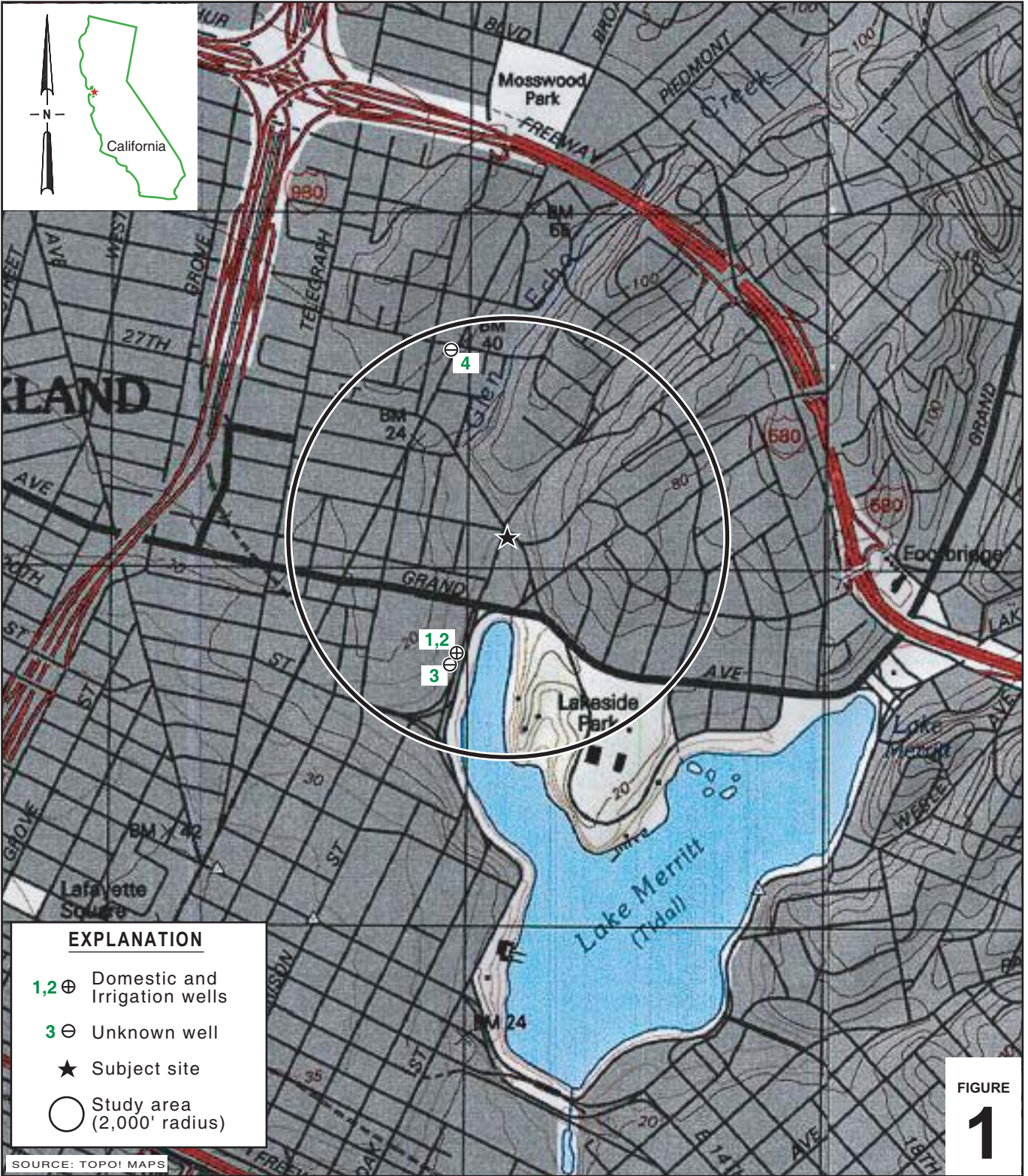
Peter Schaefer, CHG, CEG



Aubrey K. Cool, PG



FIGURES



EXPLANATION

- 1,2 ⊕ Domestic and Irrigation wells
- 3 ⊖ Unknown well
- ★ Subject site
- Study area (2,000' radius)

SOURCE: TOPOI MAPS



SCALE : 1" = 1/4 MILE

FIGURE

1

Former Shell Service Station

2350 (2368) Harrison Street
Oakland, California

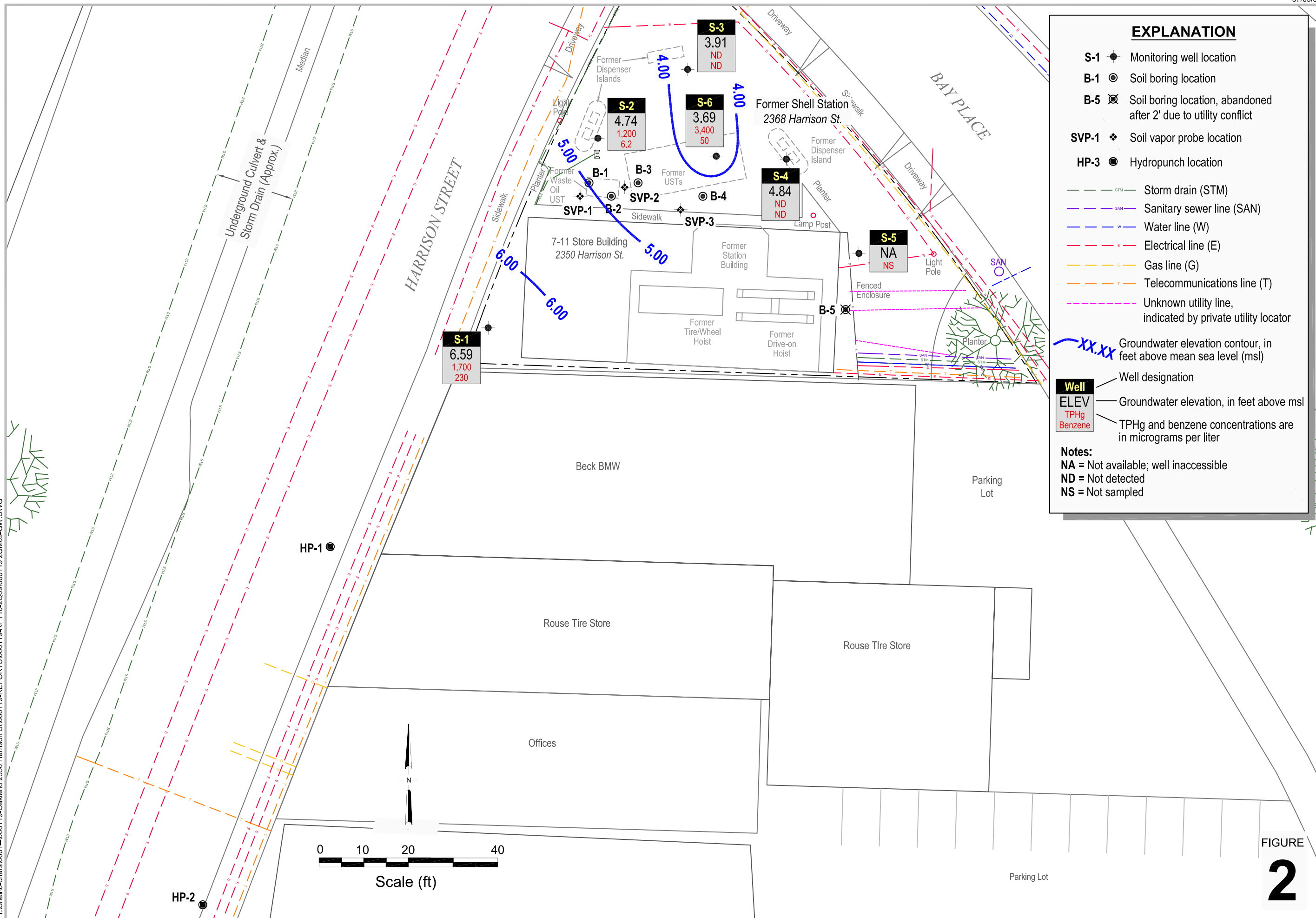


**CONESTOGA-ROVERS
& ASSOCIATES**

Vicinity Map

I:\Shell\6-chars\0601--\060119-Oakland 2350 Harrison S\060119-FIGURES\060119 VICINITY.A1

I:\Shell6-chars\0601--060119-Oakland 2350 Harrison St\060119-REPORTS\060119-RPT\10-2009\060119_20M09-GW.DWG



EXPLANATION

- S-1 ● Monitoring well location
- B-1 ● Soil boring location
- B-5 ⊗ Soil boring location, abandoned after 2' due to utility conflict
- SVP-1 ◆ Soil vapor probe location
- HP-3 ● Hydropunch location
- STM --- Storm drain (STM)
- SAN --- Sanitary sewer line (SAN)
- W --- Water line (W)
- E --- Electrical line (E)
- G --- Gas line (G)
- T --- Telecommunications line (T)
- Unknown utility line, indicated by private utility locator
- xx.xx --- Groundwater elevation contour, in feet above mean sea level (msl)

Well	ELEV	TPHg	Benzene
S-1	6.59	1,700	230
S-2	4.74	1,200	6.2
S-3	3.91	ND	ND
S-4	4.84	ND	ND
S-5	NA	NS	
S-6	3.69	3,400	50

Notes:
 NA = Not available; well inaccessible
 ND = Not detected
 NS = Not sampled

Groundwater Contour and Chemical Concentration Map



May 26, 2009

Former Shell Service Station
 2350 (2368) Harrison Street
 Oakland, California

FIGURE **2**

TABLES

TABLE 1

**GROUNDWATER MONITORING ANALYTICAL DATA - VOCs AND PAHS
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Acetone</i>	<i>2-Butanone</i>	<i>n-Butyl- benzene</i>	<i>sec-Butyl- benzene</i>	<i>tert-Butyl- benzene</i>	<i>Chloro- benzene</i>	<i>1,2- Dichloro- propane</i>	<i>Isopropyl- benzene</i>	<i>p-Isopropyl- toluene</i>	<i>n-Propyl- benzene</i>	<i>1,2,4- Trimethyl- benzene</i>	<i>1,3,5- Trimethyl- benzene</i>
S-1	6/11/2008	<250	<50	<5.0	<5.0	<5.0	<5.0	<5.0	5.1	<5.0	<5.0	<5.0	5.7
S-1	9/17/2008	<50	<10	5.6	7.3	1.8	<1.0	<1.0	20	11	19	7.3	<1.0
S-1	12/11/2008	<50	<10	3.9	4.6	1.7	<1.0	<1.0	12	7.4	12	3.9	<1.0
S-1	2/25/2009	<250	<50	<5.0	<5.0	<5.0	<5.0	<5.0	14	7.6	14	<5.0	<5.0
S-1	5/26/2009	<250	<50	<5.0	<5.0	<5.0	<5.0	<5.0	13	5.1	9.9	<5.0	<5.0
S-2	6/11/2008	<250	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
S-3	6/11/2008	<50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
S-4	6/11/2008	<50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
S-5	6/11/2008	<50	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
S-6	6/11/2008	59	12	21	11	<1.0	1.7	2.0	56	<1.0	79	<1.0	<1.0
S-6	5/26/2009	<50	<10	4.4	5.8	<1.0	<1.0	<1.0	6.1	<1.0	3.9	<1.0	<1.0

SFBRWQCB ESLs for groundwater where groundwater is a current or potential drinking water source

1,500	---	---	---	---	25	5.0	---	---	---	---	---
-------	-----	-----	-----	-----	----	-----	-----	-----	-----	-----	-----

Notes:

All results in µg/l unless otherwise indicated.

VOCs = Volatile organic compounds

TABLE 1

**GROUNDWATER MONITORING ANALYTICAL DATA - VOCS AND PAHS
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA**

PAHs = Polynuclear aromatic hydrocarbons

VOCs and PAHs analyzed by EPA Method 8260B. All detected constituents tabulated; see laboratory analytical report for a complete list of specific constituents and results.

<x = Not detected at reporting limit x

SFBRWQCB ESLs = San Francisco Bay Regional Water Quality Control Board environmental screening levels - November 2007 (revised May 2008)

--- = No applicable environmental screening level

APPENDIX A

BLAINE TECH SERVICES, INC. -
GROUNDWATER MONITORING REPORT

BLAINE

TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

June 15, 2009

Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

Second Quarter 2009 Groundwater Monitoring at
Former Shell-branded Service Station
2350 (2368) Harrison Street
Oakland, CA

Monitoring performed on May 26, 2009

Groundwater Monitoring Report **090526-AC-1**

This report covers the routine monitoring of groundwater wells at this former Shell service station. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

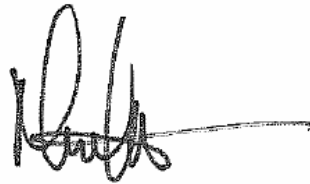
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Mike Ninokata", with a long horizontal flourish extending to the right.

Mike Ninokata
Project Manager

MN/jb

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

WELL CONCENTRATIONS
Former Shell Service Station
2350 (2368) Harrison St.
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	Oil & Grease (ug/L)	Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE 8260 (ug/L)	ETBE 8260 (ug/L)	TAME 8260 (ug/L)	TBA 8260 (ug/L)	1,2 DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
S-1	06/09/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.93	5.92	4.01
S-1	06/11/2008	1,300	540 a,b	2,500	<250 a	46	<5.0	14	<5.0	<5.0	34	<10	<10	130	<2.5	<5.0	9.93	7.45	2.48
S-1	09/17/2008	3,100	550 a,b	2,400	<250 a	180	2.7	78	8.6	<1.0	30	<2.0	<2.0	150	<0.50	<1.0	9.93	5.05	4.88
S-1	12/11/2008	2,900	570 a,b	<1,000	<250 a	190	3.0	57	6.1	<1.0	31	<2.0	<2.0	160	<0.50	<1.0	9.93	6.87	3.06
S-1	02/25/2009	3,300	620 a,b	1,000	<250 a	270	<5.0	69	6.8	<5.0	26	<10	<10	180	<2.5	<5.0	9.93	4.05	5.88
S-1	05/26/2009	1,700	660 a,b	<1,000	NA	230	<5.0	51	5.3	<5.0	32	<10	<10	170	<2.5	<5.0	9.93	3.34	6.59
S-2	06/09/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.37	6.60	3.77
S-2	06/11/2008	960	800 a,b	1,300	<250 a	3.0	<5.0	<5.0	<5.0	<5.0	20	<10	<10	<50	<2.5	<5.0	10.37	6.80	3.57
S-2	09/17/2008	1,700	490 a,b	<1,000	<250 a	3.4	<1.0	8.3	1.1	<1.0	7.3	<2.0	<2.0	16	<0.50	<1.0	10.37	6.16	4.21
S-2	12/11/2008	1,800	210 a	<1,000	280 a	5.2	<1.0	6.9	1.2	<1.0	11	<2.0	<2.0	23	<0.50	<1.0	10.37	6.08	4.29
S-2	02/25/2009	2,100	590 a,b	<1,000	<250 a	7.7	2.6	3.8	2.0	<1.0	12	<2.0	<2.0	28	<0.50	<1.0	10.37	5.34	5.03
S-2	05/26/2009	1,200	570 a,b	<1,000	NA	6.2	1.5	3.6	1.4	NA	NA	NA	NA	NA	NA	NA	10.37	5.63	4.74
S-3	06/09/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.49	6.93	3.56
S-3	06/11/2008	82	100 a,b	2,800	<250 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.49	7.45	3.04
S-3	09/17/2008	<50	<50 a	1,200	<250 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.49	6.86	3.63
S-3	12/11/2008	<50	92 a	<1,000	<250 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.49	6.74	3.75
S-3	02/25/2009	<50	<50 a	<1,000	<250 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.49	6.01	4.48
S-3	05/26/2009	<50	<50 a	<1,000	NA	<0.50	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	10.49	6.58	3.91
S-4	06/09/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.11	3.45
S-4	06/11/2008	<50	56 a,b	2,400	<250 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.56	10.92	-0.36
S-4	09/17/2008	<50	51 a	<1,000	<250 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.56	6.43	4.13
S-4	12/11/2008	<50	140 a	4,400	<250 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.56	5.71	4.85
S-4	02/25/2009	<50	<50 a	<1,000	<250 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.56	5.71	4.85
S-4	05/26/2009	<50	80 a	<1,000	NA	<0.50	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	10.56	5.72	4.84
S-5	06/09/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	6.64	3.90
S-5	06/11/2008	<50	80 a,b	1,700	<250 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.54	6.67	3.87
S-5	09/17/2008	60	64 a,b	<1,000	<250 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.54	6.73	3.81
S-5	12/11/2008	54	63 a	<1,000	<250 a	<0.50	<1.0	<1.0	1.1	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.54	6.77	3.77
S-5	02/25/2009	100	<50 a	<1,000	<250 a	<0.50	<1.0	1.1	1.1	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	10.54	6.65	3.89
S-5	05/26/2009	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
2350 (2368) Harrison St.
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	Oil & Grease (ug/L)	Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE 8260 (ug/L)	ETBE 8260 (ug/L)	TAME 8260 (ug/L)	TBA 8260 (ug/L)	1,2 DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
S-6	06/09/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	6.98	3.58
S-6	06/11/2008	6,500	2,900 a,b	2,700	<250 a	180	25	3.9	19.1	<1.0	18	<2.0	<2.0	190	<0.50	<1.0	10.56	7.04	3.52
S-6	09/17/2008	8,000	3,000 a,b	1,200	260 b,a	160	16	3.3	14.4	<1.0	8.7	<2.0	<2.0	65	<0.50	<1.0	10.56	6.92	3.64
S-6	12/11/2008	5,300	2,700 a,b	1,200	<250 a	120	7.3	<5.0	5.1	<5.0	<10	<10	<10	92	<2.5	<5.0	10.56	4.80	5.76
S-6	02/25/2009	6,100	1,700 a,b	<1,000	<250 a	82	6.3	<5.0	<5.0	<5.0	<10	<10	<10	88	<2.5	<5.0	10.56	6.30	4.26
S-6	05/26/2009	3,400	2,100 a,b	<1,000	NA	50	4.0	<1.0	4.6	<1.0	7.8	<2.0	<2.0	69	<0.50	<1.0	10.56	6.87	3.69

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B

TEPH = Total petroleum hydrocarbons as diesel by EPA Method 8260B

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B.

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B.

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B.

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B.

1,2 DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

ND = Not detected

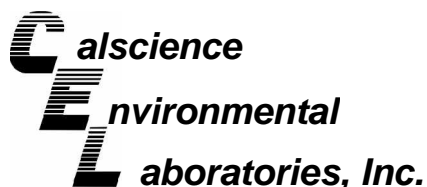
Notes:

Oil & Grease analyzed by EPA Method 1664A.

Motor Oil analyzed by EPA Method 8015B (M).

a = The sample extract was subjected to Silica Gel treatment prior to analysis.

b = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specific standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specific standard.



June 10, 2009

Michael Ninokata
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **CalScience Work Order No.: 09-05-2344**
Client Reference: 2350 (2368) Harrison St., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/28/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Philip Samelle for".

CalScience Environmental
Laboratories, Inc.
Jessie Lee
Project Manager

Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 05/28/09
Work Order No: 09-05-2344
Preparation: EPA 3510C
Method: EPA 8015B

Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-1	09-05-2344-1-D	05/26/09 12:13	Aqueous	GC 47	05/28/09	06/03/09 04:55	090528B12

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	660	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	95	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2	09-05-2344-2-D	05/26/09 12:01	Aqueous	GC 47	05/28/09	06/03/09 05:13	090528B12

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	570	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	86	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3	09-05-2344-3-D	05/26/09 11:48	Aqueous	GC 47	05/28/09	06/03/09 05:30	090528B12

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	108	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 05/28/09
Work Order No: 09-05-2344
Preparation: EPA 3510C
Method: EPA 8015B

Project: 2350 (2368) Harrison St., Oakland, CA

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-4	09-05-2344-4-D	05/26/09 11:35	Aqueous	GC 47	05/28/09	06/03/09 05:47	090528B12

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	80	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	103	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-6	09-05-2344-5-D	05/26/09 12:35	Aqueous	GC 47	05/28/09	06/03/09 06:04	090528B12

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	2100	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	99	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-211-1,192	N/A	Aqueous	GC 47	05/28/09	06/03/09 03:28	090528B12

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	104	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 05/28/09
Work Order No: 09-05-2344
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

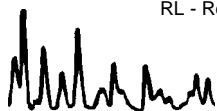
Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-1	09-05-2344-1-A	05/26/09 12:13	Aqueous	GC/MS RR	06/04/09	06/05/09 10:29	090604L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	250	5		c-1,3-Dichloropropene	ND	2.5	5	
Benzene	230	2.5	5		t-1,3-Dichloropropene	ND	2.5	5	
Bromobenzene	ND	5.0	5		Ethylbenzene	51	5.0	5	
Bromochloromethane	ND	5.0	5		2-Hexanone	ND	50	5	
Bromodichloromethane	ND	5.0	5		Isopropylbenzene	13	5.0	5	
Bromoform	ND	5.0	5		p-Isopropyltoluene	6.1	5.0	5	
Bromomethane	ND	50	5		Methylene Chloride	ND	50	5	
2-Butanone	ND	50	5		4-Methyl-2-Pentanone	ND	50	5	
n-Butylbenzene	ND	5.0	5		Naphthalene	ND	50	5	
sec-Butylbenzene	ND	5.0	5		n-Propylbenzene	9.9	5.0	5	
tert-Butylbenzene	ND	5.0	5		Styrene	ND	5.0	5	
Carbon Disulfide	ND	50	5		1,1,1,2-Tetrachloroethane	ND	5.0	5	
Carbon Tetrachloride	ND	2.5	5		1,1,2,2-Tetrachloroethane	ND	5.0	5	
Chlorobenzene	ND	5.0	5		Tetrachloroethene	ND	5.0	5	
Chloroethane	ND	5.0	5		Toluene	ND	5.0	5	
Chloroform	ND	5.0	5		1,2,3-Trichlorobenzene	ND	5.0	5	
Chloromethane	ND	50	5		1,2,4-Trichlorobenzene	ND	5.0	5	
2-Chlorotoluene	ND	5.0	5		1,1,1-Trichloroethane	ND	5.0	5	
4-Chlorotoluene	ND	5.0	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	5	
Dibromochloromethane	ND	5.0	5		1,1,2-Trichloroethane	ND	5.0	5	
1,2-Dibromo-3-Chloropropane	ND	25	5		Trichloroethene	ND	5.0	5	
1,2-Dibromoethane	ND	5.0	5		Trichlorofluoromethane	ND	50	5	
Dibromomethane	ND	5.0	5		1,2,3-Trichloropropane	ND	25	5	
1,2-Dichlorobenzene	ND	5.0	5		1,2,4-Trimethylbenzene	ND	5.0	5	
1,3-Dichlorobenzene	ND	5.0	5		1,3,5-Trimethylbenzene	ND	5.0	5	
1,4-Dichlorobenzene	ND	5.0	5		Vinyl Acetate	ND	50	5	
Dichlorodifluoromethane	ND	5.0	5		Vinyl Chloride	ND	2.5	5	
1,1-Dichloroethane	ND	5.0	5		Xylenes (total)	5.3	5.0	5	
1,2-Dichloroethane	ND	2.5	5		Methyl-t-Butyl Ether (MTBE)	ND	5.0	5	
1,1-Dichloroethene	ND	5.0	5		Tert-Butyl Alcohol (TBA)	170	50	5	
c-1,2-Dichloroethene	ND	5.0	5		Diisopropyl Ether (DIPE)	32	10	5	
t-1,2-Dichloroethene	ND	5.0	5		Ethyl-t-Butyl Ether (ETBE)	ND	10	5	
1,2-Dichloropropane	ND	5.0	5		Tert-Amyl-Methyl Ether (TAME)	ND	10	5	
1,3-Dichloropropane	ND	5.0	5		Ethanol	ND	500	5	
2,2-Dichloropropane	ND	5.0	5		TPPH	1700	250	5	
1,1-Dichloropropene	ND	5.0	5						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	74-140			1,2-Dichloroethane-d4	100	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	99	74-110							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 05/28/09
Work Order No: 09-05-2344
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 2350 (2368) Harrison St., Oakland, CA

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-6	09-05-2344-5-C	05/26/09 12:35	Aqueous	GC/MS RR	06/05/09	06/05/09 18:38	090605L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	50	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	6.1	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	4.4	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	5.8	1.0	1		n-Propylbenzene	3.9	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	1.0	1		Toluene	4.0	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		Xylenes (total)	4.6	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	69	10	1	
c-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	7.8	2.0	1	
t-1,2-Dichloroethene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
2,2-Dichloropropane	ND	1.0	1		TPPH	3400	50	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	74-140			1,2-Dichloroethane-d4	103	74-146		
Toluene-d8	103	88-112			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	102	74-110							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 05/28/09
Work Order No: 09-05-2344
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

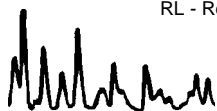
Project: 2350 (2368) Harrison St., Oakland, CA

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-1,915	N/A	Aqueous	GC/MS RR	06/04/09	06/05/09 03:46	090604L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoforn	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	1.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		Xylenes (total)	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
c-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
t-1,2-Dichloroethene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
2,2-Dichloropropane	ND	1.0	1		TPPH	ND	50	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		
Dibromofluoromethane	101	74-140		1,2-Dichloroethane-d4	99	74-146			
Toluene-d8	98	88-112		Toluene-d8-TPPH	97	88-112			
1,4-Bromofluorobenzene	97	74-110							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
 1680 Rogers Avenue
 San Jose, CA 95112-1105

Date Received: 05/28/09
 Work Order No: 09-05-2344
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
 Units: ug/L

Project: 2350 (2368) Harrison St., Oakland, CA

Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-1,921	N/A	Aqueous	GC/MS RR	06/05/09	06/05/09 15:43	090605L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	1.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		Xylenes (total)	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
c-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
t-1,2-Dichloroethene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
2,2-Dichloropropane	ND	1.0	1		TPPH	ND	50	1	
1,1-Dichloropropene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		
Dibromofluoromethane	102	74-140		1,2-Dichloroethane-d4	100	74-146			
Toluene-d8	99	88-112		Toluene-d8-TPPH	98	88-112			
1,4-Bromofluorobenzene	98	74-110							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 05/28/09
Work Order No: 09-05-2344
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2	09-05-2344-2-A	05/26/09 12:01	Aqueous	GC/MS RR	06/04/09	06/05/09 10:54	090604L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	6.2	0.50	1		Xylenes (total)	1.4	1.0	1	
Ethylbenzene	3.6	1.0	1		TPPH	1200	50	1	
Toluene	1.5	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	74-140			1,2-Dichloroethane-d4	102	74-146		
Toluene-d8	103	88-112			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	100	74-110							

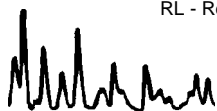
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3	09-05-2344-3-A	05/26/09 11:48	Aqueous	GC/MS RR	06/04/09	06/05/09 11:19	090604L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	74-140			1,2-Dichloroethane-d4	101	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	98	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-4	09-05-2344-4-C	05/26/09 11:35	Aqueous	GC/MS RR	06/05/09	06/05/09 18:13	090605L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	74-140			1,2-Dichloroethane-d4	101	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	99	74-110							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
 1680 Rogers Avenue
 San Jose, CA 95112-1105

Date Received: 05/28/09
 Work Order No: 09-05-2344
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
 Units: ug/L

Project: 2350 (2368) Harrison St., Oakland, CA

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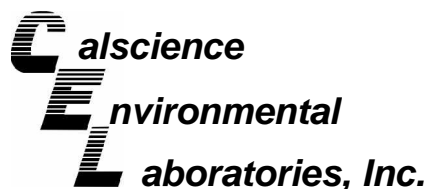
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-1,915	N/A	Aqueous	GC/MS RR	06/04/09	06/05/09 03:46	090604L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	101	74-140			1,2-Dichloroethane-d4	99	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	97	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-1,921	N/A	Aqueous	GC/MS RR	06/05/09	06/05/09 15:43	090605L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	74-140			1,2-Dichloroethane-d4	100	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	98	74-110							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 05/28/09
Work Order No: 09-05-2344

Project: 2350 (2368) Harrison St., Oakland, CA

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
S-1	09-05-2344-1	05/26/09	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
HEM: Oil and Grease	ND	1.0	1		mg/L	06/08/09	06/08/09	EPA 1664A

S-2	09-05-2344-2	05/26/09	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
HEM: Oil and Grease	ND	1.0	1		mg/L	06/08/09	06/08/09	EPA 1664A

S-3	09-05-2344-3	05/26/09	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
HEM: Oil and Grease	ND	1.0	1		mg/L	06/08/09	06/08/09	EPA 1664A

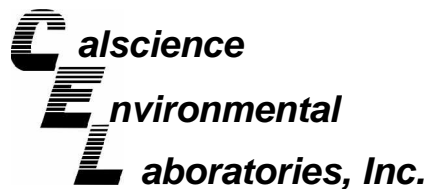
S-4	09-05-2344-4	05/26/09	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
HEM: Oil and Grease	ND	1.0	1		mg/L	06/08/09	06/08/09	EPA 1664A

S-6	09-05-2344-5	05/26/09	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
HEM: Oil and Grease	ND	1.0	1		mg/L	06/08/09	06/08/09	EPA 1664A

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
 1680 Rogers Avenue
 San Jose, CA 95112-1105

Date Received: 05/28/09
 Work Order No: 09-05-2344

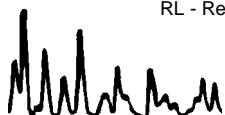
Project: 2350 (2368) Harrison St., Oakland, CA

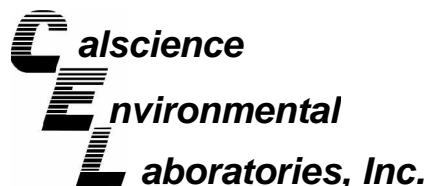
Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
HEM: Oil and Grease	ND	1.0	1		mg/L	06/08/09	06/08/09	EPA 1664A

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 05/28/09
Work Order No: 09-05-2344
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA
8260B

Project 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-05-2486-2	Aqueous	GC/MS RR	06/04/09	06/05/09	090604S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	102	88-118	0	0-7	
Carbon Tetrachloride	108	111	67-145	3	0-11	
Chlorobenzene	99	98	88-118	1	0-7	
1,2-Dibromoethane	108	104	70-130	3	0-30	
1,2-Dichlorobenzene	97	97	86-116	0	0-8	
1,1-Dichloroethene	104	102	70-130	1	0-25	
Ethylbenzene	100	99	70-130	2	0-30	
Toluene	101	101	87-123	1	0-8	
Trichloroethene	99	99	79-127	1	0-10	
Vinyl Chloride	119	118	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	102	101	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	106	103	36-168	2	0-45	
Diisopropyl Ether (DIPE)	105	105	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	99	98	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	96	72-126	0	0-12	
Ethanol	104	103	53-149	1	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

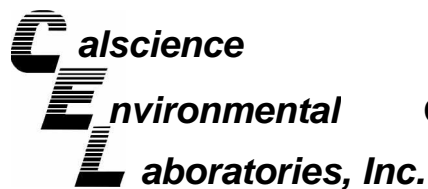
Date Received: 05/28/09
Work Order No: 09-05-2344
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA
8260B

Project 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-05-2486-7	Aqueous	GC/MS RR	06/05/09	06/05/09	090605S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	103	88-118	2	0-7	
Carbon Tetrachloride	112	116	67-145	3	0-11	
Chlorobenzene	100	100	88-118	0	0-7	
1,2-Dibromoethane	106	105	70-130	2	0-30	
1,2-Dichlorobenzene	99	101	86-116	2	0-8	
1,1-Dichloroethene	107	106	70-130	1	0-25	
Ethylbenzene	102	102	70-130	0	0-30	
Toluene	104	103	87-123	1	0-8	
Trichloroethene	102	102	79-127	1	0-10	
Vinyl Chloride	116	111	69-129	5	0-13	
Methyl-t-Butyl Ether (MTBE)	102	100	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	106	100	36-168	5	0-45	
Diisopropyl Ether (DIPE)	106	104	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	99	98	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	96	72-126	1	0-12	
Ethanol	95	85	53-149	11	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

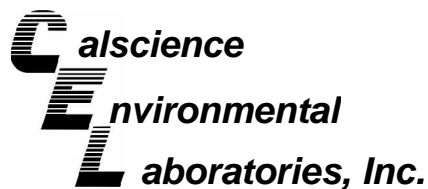
Date Received: N/A
Work Order No: 09-05-2344

Project: 2350 (2368) Harrison St., Oakland, CA

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
HEM: Oil and Grease	EPA 1664A	09-05-2396-1	06/08/09	6/8/09	100	99	78-114	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 09-05-2344
Preparation: EPA 3510C
Method: EPA 8015B

Project: 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,192	Aqueous	GC 47	05/28/09	06/03/09	090528B12

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Diesel Range Organics	103	100	75-117	2	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 09-05-2344
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-767-1,915	Aqueous	GC/MS RR	06/04/09	06/05/09	090604L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	104	106	84-120	78-126	2	0-8	
Carbon Tetrachloride	114	118	63-147	49-161	3	0-10	
Chlorobenzene	99	101	89-119	84-124	2	0-7	
1,2-Dibromoethane	106	107	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	99	99	89-119	84-124	0	0-9	
1,1-Dichloroethene	106	108	77-125	69-133	2	0-16	
Ethylbenzene	101	105	80-120	73-127	3	0-20	
Toluene	103	104	83-125	76-132	1	0-9	
Trichloroethene	105	109	89-119	84-124	4	0-8	
Vinyl Chloride	111	116	63-135	51-147	5	0-13	
Methyl-t-Butyl Ether (MTBE)	101	100	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	102	103	46-154	28-172	0	0-32	
Diisopropyl Ether (DIPE)	105	104	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	99	98	74-122	66-130	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	94	76-124	68-132	2	0-10	
Ethanol	91	95	60-138	47-151	4	0-32	
TPPH	94	92	65-135	53-147	2	0-30	

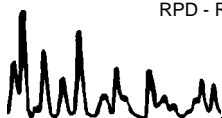
Total number of LCS compounds : 17

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 09-05-2344
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2350 (2368) Harrison St., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-767-1,921	Aqueous	GC/MS RR	06/05/09	06/05/09	090605L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	104	107	84-120	78-126	2	0-8	
Carbon Tetrachloride	115	120	63-147	49-161	4	0-10	
Chlorobenzene	99	100	89-119	84-124	1	0-7	
1,2-Dibromoethane	104	102	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	97	99	89-119	84-124	2	0-9	
1,1-Dichloroethene	112	115	77-125	69-133	2	0-16	
Ethylbenzene	101	103	80-120	73-127	2	0-20	
Toluene	103	105	83-125	76-132	2	0-9	
Trichloroethene	103	107	89-119	84-124	3	0-8	
Vinyl Chloride	107	120	63-135	51-147	11	0-13	
Methyl-t-Butyl Ether (MTBE)	102	101	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	100	103	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	106	106	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	99	99	74-122	66-130	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	95	76-124	68-132	1	0-10	
Ethanol	92	92	60-138	47-151	0	0-32	
TPPH	97	93	65-135	53-147	4	0-30	

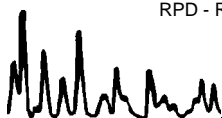
Total number of LCS compounds : 17

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Blaine Tech Services, Inc.
 1680 Rogers Avenue
 San Jose, CA 95112-1105

Date Received:
 Work Order No:

N/A
 09-05-2344

Project: 2350 (2368) Harrison St., Oakland, CA

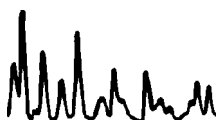
Matrix : Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> <u>Sample ID</u>	<u>Date</u> <u>Analyzed</u>	<u>Date</u> <u>Extracted</u>	<u>Conc.</u> <u>Added</u>	<u>Conc.</u> <u>Recovered</u>	<u>LCS</u> <u>%Rec</u>	<u>%Rec</u> <u>CL</u>	<u>Qualifiers</u>
HEM: Oil and Grease	EPA 1664A	099-05-119-1,924	06/08/09	06/08/09	40.0	36.2	90	78-114	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 09-05-2344

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



LAB (LOCATION)



Shell Oil Products Chain Of Custody Record

- CALSCIENCE ()
- SPL ()
- XENCO ()
- TEST AMERICA ()
- OTHER ()

Please Check Appropriate Box:

<input checked="" type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: Denis Brown

INCIDENT # (ENV SERVICES): 9 7 7 4 3 9 6 9

PO # _____ SAP # _____

DATE: 5/26/09

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

ADDRESS: 1680 Rogers Ave, San Jose, CA 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata

TELEPHONE: (408)573-0555 FAX: (408)573-7771 E-MAIL: mnninokata@blainetech.com

TURNAROUND TIME (CALENDAR DAYS): STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY:

SITE ADDRESS: Street and City: 2350 (2368) Harrison St, Oakland State: CA GLOBAL ID NO: T0600102237

EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville PHONE NO: (510) 420-3335 E-MAIL: Shelledt@craworld.com CONSULTANT PROJECT NO: BTS # 090526-ACU

SAMPLER NAME(S) (Print): A. Carothers LAB USE ONLY: OS-2344

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES :

Run TPH-d, TPH-mo w/Silica Gel Clean Up

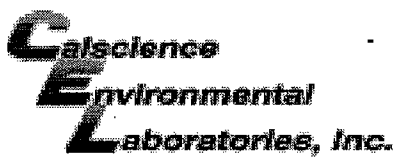
SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EDD NOT NEEDED
 RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS													TEMPERATURE ON RECEI, °	Container PID Readings or Laboratory Notes							
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)			TPH-MO (8015M)	Oil & Grease (1664A)	Chlorinated Solvents (8260B)				
1	S-1	5/26/09	1213	W	3		1	2		6	X	X	X																			
2	S-2		1201	↓							X	X	X																			
3	S-3		1148	↓							X	X	X																			
4	S-4		1135	↓							X	X	X																			
5	S-6		1235	↓							X	X	X																			

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	<i>[Signature]</i> (sample custodian)	5/26/09	1715
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i> (Sample Custodian)	<i>[Signature]</i> CFC	5-27-09	1100
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i> 5-27-09	<i>[Signature]</i>	5/28/09	1030

511940963

[Signature]



WORK ORDER #: 09-05-2344

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blaine Tech

DATE: 5/28/09

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.7 °C - 0.2 °C (CF) = 2.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: JP

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: JP

Sample _____ No (Not Intact) Not Present Initial: JP

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOA_h VOAna₂ 125AGB 125AGB_h 125AGB_p 1AGB 1AGBna₂ 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PBna

250PB 250PB_n 125PB 125PBz_{nna} 100PB 100PBna₂ _____ _____ _____

Air: Tedlar® Summa® _____ **Other:** _____ Checked/Labeled by: JP

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) Reviewed by: _____

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{nna}: ZnAc₂+NaOH f: Field-filtered Scanned by: JP

SAMPLE ANOMALY FORM**SAMPLES - CONTAINERS & LABELS:**

- Samples NOT RECEIVED but listed on COC
- Samples received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s)/preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample labels do not match COC – Note in comments
- Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of containers
- Sample containers compromised – Note in comments
- Leaking
 - Broken
 - Without Labels
- Air sample containers compromised – Note in comments
- Flat
 - Very low in volume
 - Leaking (transferred into Calscience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: _____

Comments:

(-1) 1 of 3 vials
received broken

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of RSK or CO ₂ or DO Received
1	B	2						

Comments: _____

*Transferred at Client's request.

Initial / Date

80 / 5/28/09

WELL GAUGING DATA

Project # 090526-AC1 Date 5/26/09 Client Shell

Site 2350 Harrison St, Oakland, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
S-1	0906	4					3.34	15.72	↓	
S-2	0850	4				5.63	15.72			
S-3	0853	4				6.58	20.48			
S-4	0857	4				5.72	20.71			
S-5	—————		Dumpster On Top of Well							
S-6	0912	4	strong odor				6.87	15.52		↓

SHELL WELL MONITORING DATA SHEET

BTS #: <u>090526-AC1</u>	Site: <u>2350 Harrison St, Oakland, CA</u>
Sampler: <u>AC</u>	Date: <u>5/26/09</u>
Well I.D.: <u>S-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>15.72</u>	Depth to Water (DTW): <u>3.34</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>5.81</u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

$\underline{8.0} \text{ (Gals.)} \times \underline{3} = \underline{24} \text{ Gals.}$ 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
10.12	65.4	7.1	6594	8	8.0	odor / clear
	Dewatered @			14 gals		DTW - 13.45
12.13	69.9	7.2	7152	25		clear π DTW - 13.45

Did well dewater? Yes No Gallons actually evacuated: 14

Sampling Date: 5/26/09 Sampling Time: 10:13 Depth to Water: 12.75 ^{2 hr wait}

Sample I.D.: S-1 Laboratory: CalScience Columbia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

EB I.D. (if applicable): @ _____ Time _____ Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 090526-AC1	Site: 2350 Harrison St, Oakland, CA
Sampler: AC	Date: 5/26/09
Well I.D.: S-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 15.72	Depth to Water (DTW): 5.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.64	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

6.6 (Gals.) X 3 = 19.8 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1000	67.9	7.4	2764	16	6.6	odor, clear
1001	67.6	6.8	2770	7	13.2	clear
					14 gals	DTW 13.21
1201	68.9	6.7	3491	120	✓	clear

Did well dewater? Yes No Gallons actually evacuated: 14

Sampling Date: 5/26/09 Sampling Time: 1201 Depth to Water: 2 hr. wait 11.30

Sample I.D.: S-2 Laboratory: CalScience Columbia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: Sec COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>090526-AC1</u>	Site: <u>2350 Harrison st, Oakland, CA</u>
Sampler: <u>AC</u>	Date: <u>5/26/09</u>
Well I.D.: <u>S-3</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>20.48</u>	Depth to Water (DTW): <u>6.58</u>
Depth to Free Product: <u>20^{ft}</u>	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>9.36</u>	

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible	<input type="checkbox"/> Waterra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other _____	Sampling Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other: _____
---	--	--

<u>9.0</u> (Gals.) X	<u>3</u>	= <u>27</u> Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
<u>0945</u>	<u>68.5</u>	<u>7.6</u>	<u>2655</u>	<u>26</u>	<u>9.0</u>	<u>clear</u>
<u>0947</u>	<u>68.1</u>	<u>6.7</u>	<u>2945</u>	<u>47</u>	<u>18.0</u>	<u>"</u>
						<u>Dewatered @</u>
<u>1148</u>	<u>69.1</u>	<u>6.5</u>	<u>3512</u>	<u>105</u>	<u>20 gals</u>	<u>DTW = 18.06</u> <u>clear</u>

Did well dewater? Yes No Gallons actually evacuated: 20

Sampling Date: 5/26/09 Sampling Time: 1148 Depth to Water: 16.22 ^{2 hr. wait}

Sample I.D.: S-3 Laboratory: CalScience Columbia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: Sec COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>090526-AC1</u>	Site: <u>2350 Harrison st, Oakland, CA</u>
Sampler: <u>AC</u>	Date: <u>5/26/09</u>
Well I.D.: <u>S-4</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth (TD): <u>20.71</u>	Depth to Water (DTW): <u>5.72</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>8.71</u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing
 Other: _____

$\underline{9.7} \text{ (Gals.)} \times \underline{3} = \underline{29.1} \text{ Gals.}$ 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
0931	66.3	6.6	6823	16	9.7	clear
0933	64.9	6.7	6989	11	19.4	"
	Dewatered @			20.5 gals		DTW - 18.17
1135	64.7	6.4	7421	71	/	clear

Did well dewater? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Gallons actually evacuated: <u>20.5</u>
Sampling Date: <u>5/26/09</u>	Sampling Time: <u>1135</u>
	Depth to Water: <u>2 hr. wait 14.45</u>
Sample I.D.: <u>S-4</u>	Laboratory: <u>CalScience</u> Columbia Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: <u>See COC</u>	
EB I.D. (if applicable): @ _____ Time	Duplicate I.D. (if applicable):
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

SHELL WELL MONITORING DATA SHEET

BTS #: 090526-AC1	Site: 2350 Harrison St, Oakland, CA
Sampler: AC	Date: 5/26/09
Well I.D.: 8-5	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): _____	Depth to Water (DTW): _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	Water: <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other	Sampling Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other:
---	--	--

_____ (Gals.) X 3 = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
						Dumpster On Top of well - can not sample

Did well dewater? Yes No	Gallons actually evacuated: _____
Sampling Date: 5/26/09	Sampling Time: _____
Sample I.D.: S-5	Laboratory: <u>CalScience</u> Columbia Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: <u>See COC</u>	
EB I.D. (if applicable): _____ @ _____ Time	Duplicate I.D. (if applicable): _____
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>090526-AC1</u>	Site: <u>2350 Harrison St, Oakland, CA</u>
Sampler: <u>AC</u>	Date: <u>5/26/09</u>
Well I.D.: <u>S-6</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>15.52</u>	Depth to Water (DTW): <u>6.87</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>9.60</u>	

Purge Method: Bailer Watera Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

<u>5.6</u> (Gals.) X	<u>3</u> Specified Volumes	<u>= 16.8</u> Gals. Calculated Volume
----------------------	----------------------------	---------------------------------------

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1032	66.6	7.9	3656	13	5.6	clear odor
						Dewatered @ 16 gals
1235	66.7	7.5	3549	19	/	clear

Did well dewater? Yes No Gallons actually evacuated: 16 2 hr. wait

Sampling Date: 5/26/09 Sampling Time: 1235 Depth to Water: _____

Sample I.D.: S-6 Laboratory: CalScience Columbia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

D.O. (if req'd):	Pre-purge:		mg/L	Post-purge:		mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:		mV

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 2350 Harrison St., Oakland CA Date 5/26/09
 Job Number 090526-AC1 Technician AC Page of

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
S-1	✓	✓							Paper TAG
S-2	✓	✓							Paper TAG
S-3	✓	✓							Paper TAG
S-4	✓	✓							Paper TAG
S-5	-----								Dumpster on top of well
S-6	✓	✓							Paper TAG

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12" or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12" or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes: _____
