



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: January 22, 2009 REFERENCE NO.: 240898
PROJECT NAME: 510 East 14th Street (506-510 International Boulevard), Oakland

TO: Jerry Wickham
Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

9:34 am, Jan 23, 2009

Alameda County
Environmental Health

Please find enclosed: Draft Final
 Originals Other
 Prints

Sent via: Mail Same Day Courier
 Overnight Courier Other

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Fourth Quarter 2008

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
SF Data Room

Completed by: Peter Schaefer Signed: *Peter Schaefer*
[Please Print]

Filing: **Correspondence File**



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

Re: Shell-branded Service Station
510 East 14th Street (506-510 International Boulevard)
Oakland, California
SAP Code 135695
Incident No. 97601734
ACHCSA Case No. RO0002853

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.

If you have any questions or concerns, please call me at (707) 865-0251.

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 - FOURTH QUARTER 2008

**SHELL-BRANDED SERVICE STATION
510 EAST 14TH STREET (506-510 INTERNATIONAL BOULEVARD)
OAKLAND, CALIFORNIA**

**SAP CODE 135695
INCIDENT NO. 97601734
AGENCY NO. RO0002853**

**JANUARY 22, 2009
REF. NO. 240898 (2)**
This report is printed on recycled paper.

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

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

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APPENDIX A BLAINE TECH SERVICES, INC. - GROUNDWATER MONITORING
REPORT

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	510 East 14th Street (506-510 International Boulevard), Oakland
Site Use	Shell-branded Service Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACHCSA, Jerry Wickham
Agency Case No.	RO0002853
Shell SAP Code	135695
Shell Incident No.	97601734

Date of most recent agency correspondence was November 1, 2006.

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.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	West-southwesterly
Hydraulic Gradient	0.02
Depth to Water	9.93 to 11.15 feet below top of well casing

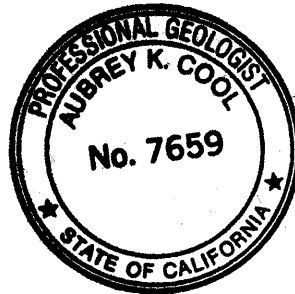
2.3 PROPOSED ACTIVITIES FOR NEXT QUARTER

Blaine will gauge and sample wells according to the established monitoring program for this site.

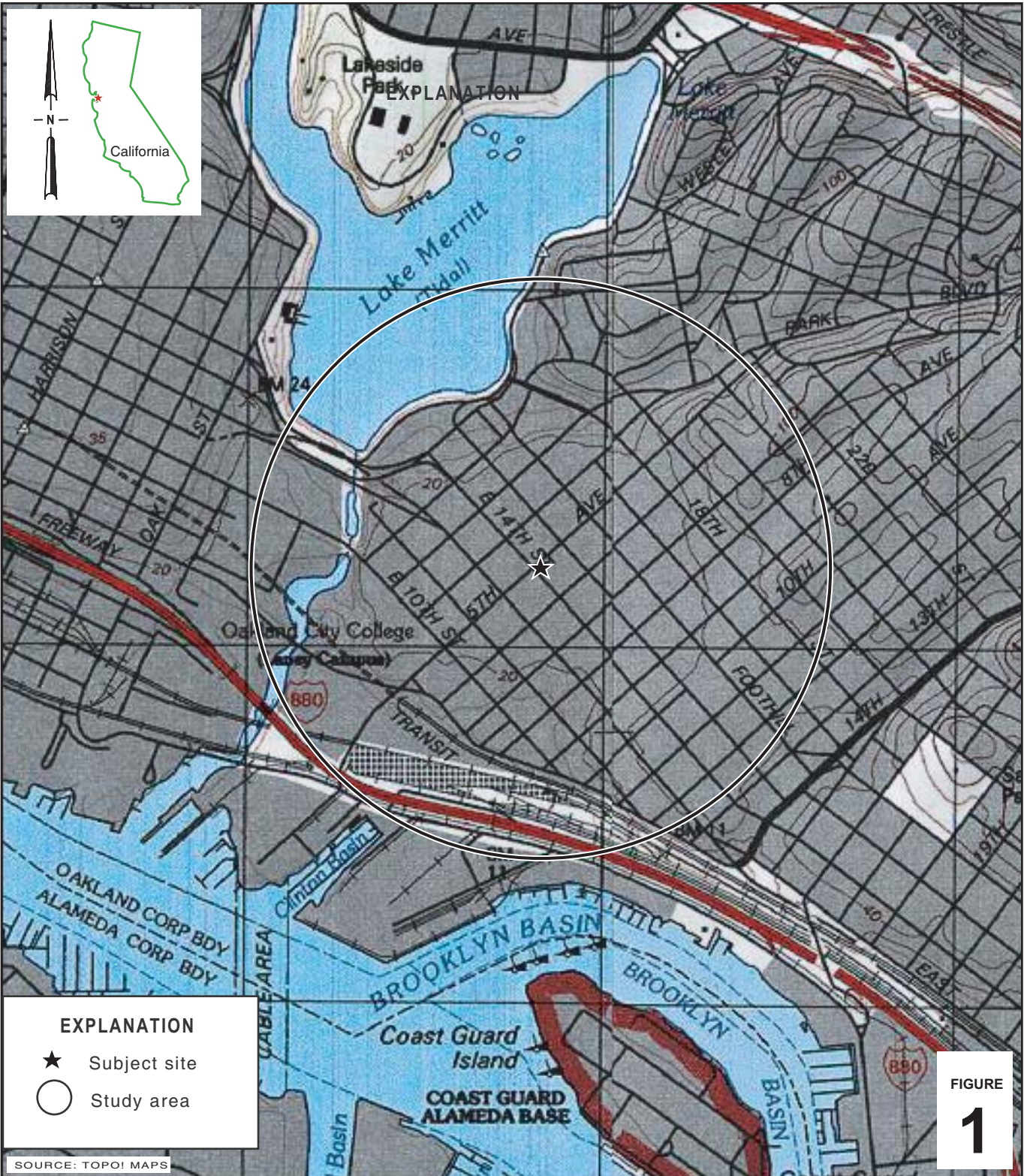
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer
Peter Schaefer, CHG, CEG

Aubrey K. Cool
Aubrey K. Cool, PG



FIGURES



I:\Shell\6-chars\2408--\240898-Oakland 510 E. 14th (506-510 International Blvd)\240898-FIGURES\240898 VICINITY.A1

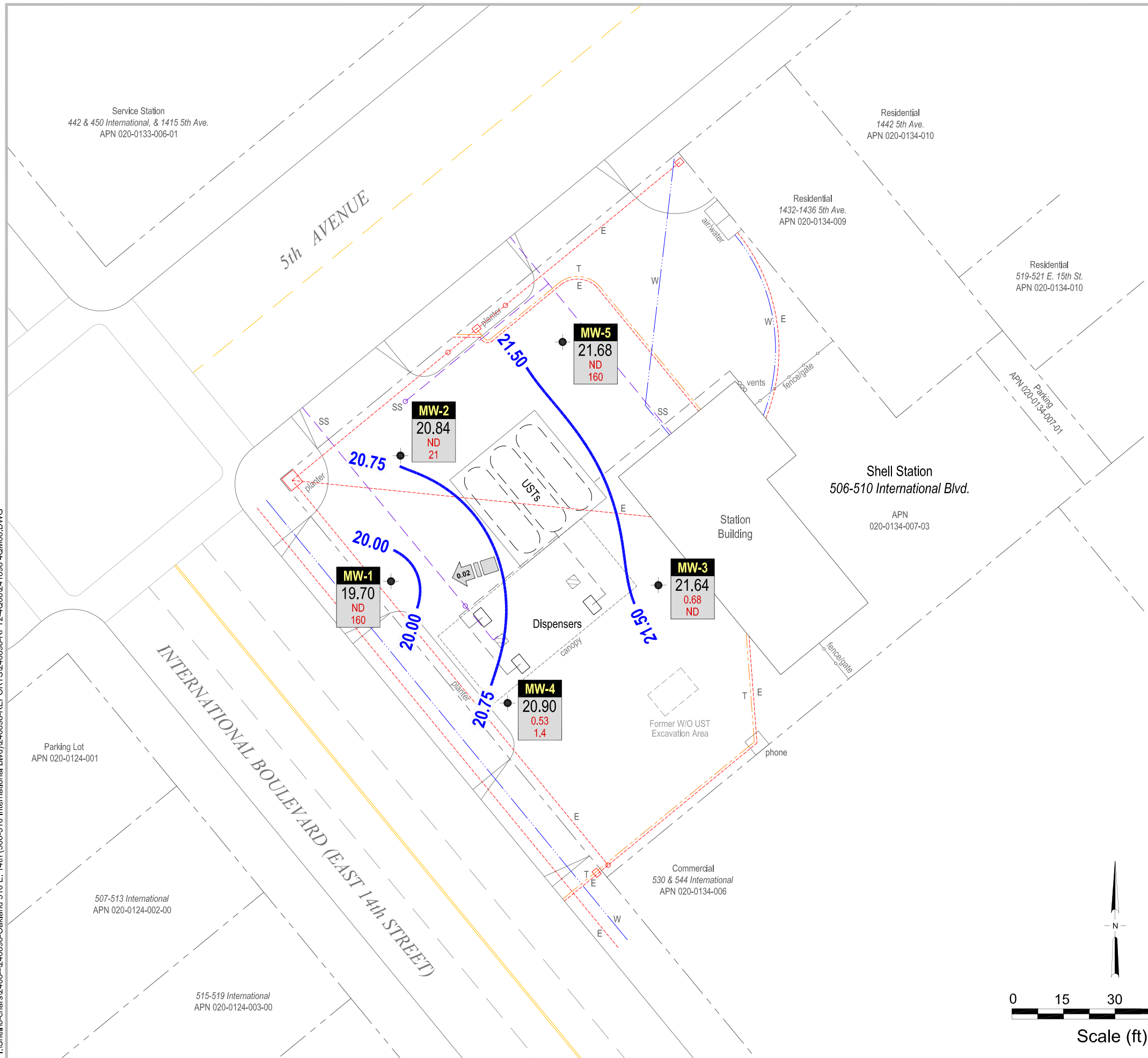
Shell-branded Service Station
 510 E. 14th Street (506-510 International Blvd.)
 Oakland, California



CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

I:\Shell\6-chars\2408--240898-Oakland 510 E. 14th (506-510 International Blvd)\240898-REPORT\240898-RPT2-4008\241898 4CM08.DWG



EXPLANATION

- MW-1 ● Monitoring well location
- Electrical line (E)
- Sanitary sewer line (SS)
- Water line (W)
- Telecommunications line (T)
- Product piping
- Groundwater flow direction and gradient
- XX.XX Groundwater elevation contour, in feet above mean sea level (msl)

Well

- Well designation
- ELEV Groundwater elevation, in feet above msl
- Benzene Benzene and MTBE concentrations are in micrograms per liter
- MTBE

Notes:
ND = Not detected

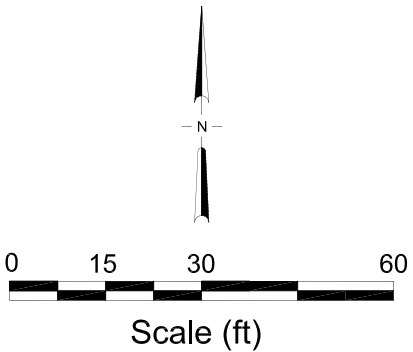


FIGURE 2

Groundwater Contour and Chemical Concentration Map

Shell-branded Service Station
510 East 14th Street (506-510 International Boulevard)
Oakland, California



December 2, 2008

APPENDIX A

BLAINE TECH SERVICES, INC. -
GROUNDWATER MONITORING REPORT

BLAINE

TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

December 22, 2008

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

Fourth Quarter 2008 Groundwater Monitoring at
Shell Service Station
510 E. 14th Street
Oakland, CA

Monitoring performed on December 2, 2008

Groundwater Monitoring Report **081202-MT-2**

This report covers the routine monitoring of groundwater wells at this Shell facility. 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,

Mike Ninokata
Project Manager

MN/tm

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
Shell Service Station
510 E. 14th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-1	8/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.85	10.98	19.87
MW-1	8/29/2006	242	<0.500	<0.500	<0.500	<0.500	255	<0.500	<0.500	<0.500	54.1	<0.500	<0.500	30.85	10.98	19.87
MW-1	11/13/2006	140 a	<2.5	<2.5	<2.5	<2.5	300	<2.5	<2.5	<2.5	<100	NA	NA	30.85	11.05	19.80
MW-1	2/9/2007	100	<0.50	0.86	<0.50	<1.0	160	<2.0	<2.0	<2.0	95	NA	NA	30.85	9.61	21.24
MW-1	6/1/2007	<50 b	<0.50	<1.0	<1.0	<1.0	160	<2.0	<2.0	<2.0	<10	NA	NA	30.85	10.67	20.18
MW-1	8/15/2007	<50 b	<0.50	<1.0	<1.0	<1.0	210	<2.0	<2.0	<2.0	5.8 c	NA	NA	30.85	10.90	19.95
MW-1	11/30/2007	120 b,d	<1.0	<2.0	<2.0	<2.0	180	<4.0	<4.0	<4.0	<02	NA	NA	30.85	10.65	20.20
MW-1	1/24/2008	120 b,d	<0.50	<1.0	<1.0	<1.0	120	<2.0	<2.0	<2.0	<10	NA	NA	30.85	8.74	22.11
MW-1	5/20/2008	160	<0.50	<1.0	<1.0	<1.0	160	<2.0	<2.0	<2.0	<10	NA	NA	30.85	10.95	19.90
MW-1	8/5/2008	150	<0.50	<1.0	<1.0	<1.0	140	<2.0	<2.0	<2.0	<10	NA	NA	30.85	11.55	19.30
MW-1	12/2/2008	190	<0.50	<1.0	<1.0	<1.0	160	<2.0	<2.0	<2.0	<10	NA	NA	30.85	11.15	19.70

MW-2	8/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.96	9.91	21.05
MW-2	8/29/2006	2,130	1.18	0.660	1.67	0.960	206	<0.500	<0.500	<0.500	55.5	<0.500	<0.500	30.96	9.91	21.05
MW-2	11/13/2006	890	<0.50	1.4	4.1	4.5	37	<0.50	<0.50	<0.50	41	NA	NA	30.96	10.11	20.85
MW-2	2/9/2007	760	0.84	3.0	5.0	6.7	67	<2.0	<2.0	<2.0	210	NA	NA	30.96	8.73	22.23
MW-2	6/1/2007	3,300 b	0.48 c	0.98 c	12	3.89 c	39	<2.0	<2.0	<2.0	79	NA	NA	30.96	8.83	22.13
MW-2	8/15/2007	3,500 b	0.40 c	0.78 c	11	3.4	9.4	<2.0	<2.0	<2.0	58	NA	NA	30.96	9.81	21.15
MW-2	11/30/2007	1,000 b	<0.50	0.34 c	<1.0	1.1	17	<2.0	<2.0	<2.0	<10	NA	NA	30.96	9.93	21.03
MW-2	1/24/2008	800 b	<0.50	<1.0	2.5	1.8	15	<2.0	<2.0	<2.0	320	NA	NA	30.96	8.13	22.83
MW-2	5/20/2008	2,600	<0.50	<1.0	11	2.6	11	<2.0	<2.0	<2.0	120	NA	NA	30.96	9.70	21.26
MW-2	8/5/2008	620	<0.50	<1.0	3.4	<1.0	37	<2.0	<2.0	<2.0	<10	NA	NA	30.96	10.46	20.50
MW-2	12/2/2008	<50	<0.50	<1.0	<1.0	<1.0	21	<2.0	<2.0	<2.0	<10	NA	NA	30.96	10.12	20.84

MW-3	8/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.02	10.00	22.02
MW-3	8/29/2006	<50.0	<0.500	<0.500	<0.500	<0.500	28.8	<0.500	<0.500	<0.500	11.9	<0.500	<0.500	32.02	10.00	22.02
MW-3	11/13/2006	<50	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	<0.50	<0.50	<20	NA	NA	32.02	10.85	21.17
MW-3	2/9/2007	<50	<0.50	2.4	0.81	5.8	2.6	<2.0	<2.0	<2.0	<5.0	NA	NA	32.02	9.90	22.12

WELL CONCENTRATIONS
Shell Service Station
510 E. 14th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-3	6/1/2007	<50 b	<0.50	<1.0	<1.0	<1.0	0.98 c	<2.0	<2.0	<2.0	<10	NA	NA	32.02	9.72	22.30
MW-3	8/15/2007	<50 b	<0.50	<1.0	<1.0	<1.0	1.3	<2.0	<2.0	<2.0	<10	NA	NA	32.02	10.69	21.33
MW-3	11/30/2007	<50 b	<0.50	<1.0	<1.0	<1.0	0.90 c	<2.0	<2.0	<2.0	<10	NA	NA	32.02	10.69	21.33
MW-3	1/24/2008	<50 b	<0.50	<1.0	<1.0	<1.0	1.1	<2.0	<2.0	<2.0	<10	NA	NA	32.02	9.00	23.02
MW-3	5/20/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	32.02	10.70	21.32
MW-3	8/5/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	32.02	11.22	20.80
MW-3	12/2/2008	<50	0.68	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	32.02	10.38	21.64

MW-4	8/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.10	9.91	21.19
MW-4	8/29/2006	375	<0.500	<0.500	3.10	0.660	6.53	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	31.10	9.91	21.19
MW-4	11/13/2006	120	<0.50	<0.50	0.87	<0.50	4.6	<0.50	<0.50	<0.50	<20	NA	NA	31.10	10.05	21.05
MW-4	2/9/2007	130	<0.50	0.92	1.6	<1.0	5.2	<2.0	<2.0	<2.0	11	NA	NA	31.10	8.62	22.48
MW-4	6/1/2007	580 b	0.30 c	<1.0	5.5	0.57 c	3.4	<2.0	<2.0	<2.0	<10	NA	NA	31.10	6.94	24.16
MW-4	8/15/2007	430 b	<0.50	<1.0	0.48 c	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	31.10	9.01	22.09
MW-4	11/30/2007	87 b	<0.50	<1.0	0.25 c	<1.0	1.7	<2.0	<2.0	<2.0	<10	NA	NA	31.10	9.89	21.21
MW-4	1/24/2008	350 b,d	<0.50	<1.0	1.7	<1.0	2.5	<2.0	<2.0	<2.0	<10	NA	NA	31.10	7.52	23.58
MW-4	5/20/2008	200	<0.50	<1.0	<1.0	<1.0	1.8	<2.0	<2.0	<2.0	<10	NA	NA	31.10	9.85	21.25
MW-4	8/5/2008	<50	<0.50	<1.0	<1.0	<1.0	1.1	<2.0	<2.0	<2.0	<10	NA	NA	31.10	10.54	20.56
MW-4	12/2/2008	86	0.53	<1.0	<1.0	<1.0	1.4	<2.0	<2.0	<2.0	<10	NA	NA	31.10	10.20	20.90

MW-5	8/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.61	9.98	21.63
MW-5	8/29/2006	1,260	<0.500	<0.500	<0.500	<0.500	829	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	31.61	9.98	21.63
MW-5	11/13/2006	290 a	<5.0	<5.0	<5.0	<5.0	640	<5.0	<5.0	<5.0	<200	NA	NA	31.61	9.82	21.79
MW-5	2/9/2007	260	<0.50	1.1	<0.50	1.1	350	<2.0	<2.0	<2.0	270	NA	NA	31.61	9.41	22.20
MW-5	6/1/2007	<50 b	<1.0	<2.0	<2.0	<2.0	290	<4.0	<4.0	<4.0	<20	NA	NA	31.61	9.29	22.32
MW-5	8/15/2007	<50 b	<0.50	<1.0	<1.0	<1.0	580	<2.0	<2.0	<2.0	<10	NA	NA	31.61	10.01	21.60
MW-5	11/30/2007	210 b,d	<2.5	<5.0	<5.0	<5.0	340	<10	<10	<10	<50	NA	NA	31.61	9.52	22.09
MW-5	1/24/2008	82 b,d	<0.50	<1.0	<1.0	<1.0	230	<2.0	<2.0	<2.0	<10	NA	NA	31.61	8.95	22.66

WELL CONCENTRATIONS
Shell Service Station
510 E. 14th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-5	5/20/2008	160	<1.0	<2.0	<2.0	<2.0	140	<4.0	<4.0	<4.0	<20	NA	NA	31.61	9.90	21.71
MW-5	8/5/2008	190	<0.50	<1.0	<1.0	<1.0	180	<2.0	<2.0	<2.0	<10	NA	NA	31.61	10.27	21.34
MW-5	12/2/2008	180	<0.50	<1.0	<1.0	<1.0	160	<2.0	<2.0	<2.0	<10	NA	NA	31.61	9.93	21.68

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified 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 or tertiary butanol, analyzed by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260B

EDB = Ethylene Dibromide, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

WELL CONCENTRATIONS
Shell Service Station
510 E. 14th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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Notes:

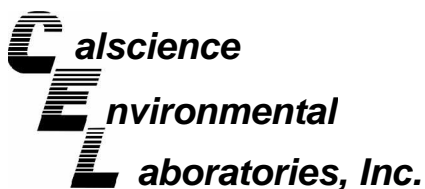
a = The result for this hydrocarbon is elevated due to the presence of single analyte peak(s) in the quantitation range.

b = Analyzed by EPA Method 8015B (M).

c = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

d = 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.

Site surveyed September 7, 2006 by Virgil Chavez of Vallejo, CA.



December 11, 2008

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

Subject: **CalScience Work Order No.: 08-12-0433**
Client Reference: 510 E. 14th Street, Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/4/2008 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 black ink, appearing to read "Jessie Kim". The signature is fluid and cursive, with a large, sweeping flourish at the end.

CalScience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Analytical Report



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

Date Received: 12/04/08
Work Order No: 08-12-0433
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 510 E. 14th Street, 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
MW-1	08-12-0433-1-A	12/02/08 12:51	Aqueous	GC/MS W	12/06/08	12/07/08 03:30	081206L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		TPPH	190	50	1	
Methyl-t-Butyl Ether (MTBE)	160	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	118	74-140			1,2-Dichloroethane-d4	123	74-146		
Toluene-d8	95	88-112			Toluene-d8-TPPH	89	88-112		
1,4-Bromofluorobenzene	85	74-110							

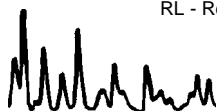
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	08-12-0433-2-A	12/02/08 12:41	Aqueous	GC/MS W	12/06/08	12/07/08 05:32	081206L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		TPPH	ND	50	1	
Methyl-t-Butyl Ether (MTBE)	21	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	122	74-140			1,2-Dichloroethane-d4	124	74-146		
Toluene-d8	97	88-112			Toluene-d8-TPPH	90	88-112		
1,4-Bromofluorobenzene	86	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	08-12-0433-3-A	12/02/08 12:05	Aqueous	GC/MS W	12/06/08	12/07/08 06:02	081206L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.68	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		TPPH	ND	50	1	
Methyl-t-Butyl Ether (MTBE)	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	119	74-140			1,2-Dichloroethane-d4	121	74-146		
Toluene-d8	95	88-112			Toluene-d8-TPPH	89	88-112		
1,4-Bromofluorobenzene	82	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: 12/04/08
Work Order No: 08-12-0433
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 510 E. 14th Street, 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
MW-4	08-12-0433-4-A	12/02/08 13:03	Aqueous	GC/MS W	12/06/08	12/07/08 06:32	081206L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.53	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		TPPH	86	50	1	
Methyl-t-Butyl Ether (MTBE)	1.4	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	126	74-140			1,2-Dichloroethane-d4	130	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	92	88-112		
1,4-Bromofluorobenzene	83	74-110							

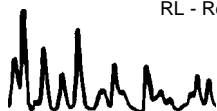
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	08-12-0433-5-A	12/02/08 13:15	Aqueous	GC/MS W	12/06/08	12/07/08 07:02	081206L03

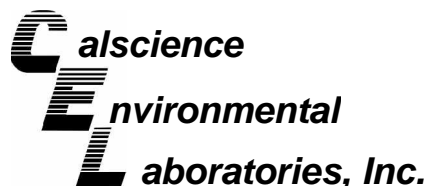
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		TPPH	180	50	1	
Methyl-t-Butyl Ether (MTBE)	160	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	121	74-140			1,2-Dichloroethane-d4	125	74-146		
Toluene-d8	96	88-112			Toluene-d8-TPPH	91	88-112		
1,4-Bromofluorobenzene	82	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-573	N/A	Aqueous	GC/MS W	12/06/08	12/07/08 03:00	081206L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		TPPH	ND	50	1	
Methyl-t-Butyl Ether (MTBE)	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	119	74-140			1,2-Dichloroethane-d4	120	74-146		
Toluene-d8	95	88-112			Toluene-d8-TPPH	89	88-112		
1,4-Bromofluorobenzene	86	74-110							

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

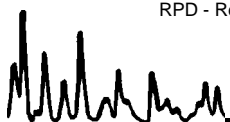
Date Received: 12/04/08
Work Order No: 08-12-0433
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA
8260B

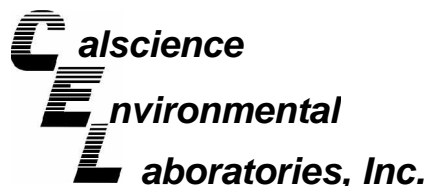
Project 510 E. 14th Street, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-1	Aqueous	GC/MS W	12/06/08	12/07/08	081206S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	99	88-118	3	0-7	
Carbon Tetrachloride	100	102	67-145	2	0-11	
Chlorobenzene	103	96	88-118	7	0-7	
1,2-Dibromoethane	110	105	70-130	4	0-30	
1,2-Dichlorobenzene	98	96	86-116	2	0-8	
1,1-Dichloroethene	91	92	70-130	1	0-25	
Ethylbenzene	103	98	70-130	6	0-30	
Toluene	99	97	87-123	2	0-8	
Trichloroethene	95	95	79-127	1	0-10	
Vinyl Chloride	90	94	69-129	4	0-13	
Methyl-t-Butyl Ether (MTBE)	60	58	71-131	0	0-13	3
Tert-Butyl Alcohol (TBA)	89	90	36-168	1	0-45	
Diisopropyl Ether (DIPE)	100	99	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	95	96	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	99	72-126	5	0-12	
Ethanol	91	92	53-149	1	0-31	

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: 08-12-0433
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 510 E. 14th Street, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-767-573	Aqueous	GC/MS W	12/06/08	12/07/08	081206L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	108	102	84-120	78-126	5	0-8	
Carbon Tetrachloride	107	109	63-147	49-161	3	0-10	
Chlorobenzene	108	101	89-119	84-124	7	0-7	
1,2-Dibromoethane	111	106	80-120	73-127	5	0-20	
1,2-Dichlorobenzene	101	99	89-119	84-124	2	0-9	
1,1-Dichloroethene	101	99	77-125	69-133	2	0-16	
Ethylbenzene	112	102	80-120	73-127	9	0-20	
Toluene	107	100	83-125	76-132	7	0-9	
Trichloroethene	110	103	89-119	84-124	6	0-8	
Vinyl Chloride	104	101	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	98	102	82-118	76-124	4	0-13	
Tert-Butyl Alcohol (TBA)	95	95	46-154	28-172	0	0-32	
Diisopropyl Ether (DIPE)	98	102	81-123	74-130	4	0-11	
Ethyl-t-Butyl Ether (ETBE)	92	98	74-122	66-130	6	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	101	76-124	68-132	0	0-10	
Ethanol	92	91	60-138	47-151	1	0-32	
TPPH	83	84	65-135	53-147	1	0-30	

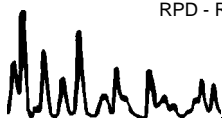
Total number of LCS compounds : 17

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



Work Order Number: 08-12-0433

<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.



LAB (LOCATION)

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



Shell Oil Products Chain Of Custody Record

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 6 0 1 7 3 4

PO # : SAP # :

DATE: 12-2-08

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 510 E. 14th Street, Oakland

State: CA

GLOBAL ID NO: T0600112421

ADDRESS: 1680 Rogers Ave, San Jose, CA 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville

PHONE NO: (510) 420-3335

E-MAIL: Shelledf@craworld.com

CONSULTANT PROJECT NO: BTS # 08202-MR

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

TELEPHONE: (408)573-0555

FAX: (408)573-7774

E-MAIL: mninokata@blainetech.com

SAMPLER NAME(S) (PAP): M. Todi

LAB USE ONLY: 12-0433

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:

SPECIAL INSTRUCTIONS OR NOTES :

Run TPH-d w/Silica Gel Clean Up

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

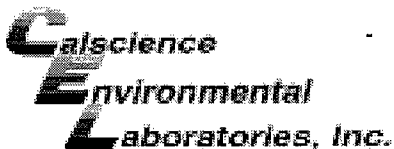
RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification			SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS											TEMPERATURE ON RECEIPT °C	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)						
1	MW-1	12-2-08	1251	W	3							3	X	X	X														
2	MW-2		1211										X	X	X														
3	MW-3		1205										X	X	X														
4	MW-4		1303										X	X	X														
5	MW-5		1315										X	X	X														

Relinquished by: (Signature)	Received by: (Signature)	Date: 12-2-08	Time: 1550
Relinquished by: (Signature) Smith - Approval (Sample Custodian)	Received by: (Signature) CEL	Date: 12-3-08	Time: 1145
Relinquished by: (Signature) GSO	Received by: (Signature) Pray R. CEL	Date: 12/04/08	Time: 10:30

GSO # 510848372



WORK ORDER #: 08-12-0433

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BLAINE TECH

DATE: 12/04/08

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: PS

CUSTODY SEALS INTACT:

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

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

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"/>
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 checked="" type="checkbox"/>	<input 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 sample label(s).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input 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 VOA³h VOAna₂ 125AGB 125AGBh 125AGBpo₄ 1AGB 1AGBna₂

1AGBs 500AGB 500AGBs 250CGB 250CGBs 1PB 500PB 500PBna 250PB

250PBn 125PB 125PBzanna 100PBsterile 100PBna₂ _____ _____ _____

Air: Tedlar® Summa® _____

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO₃ na₂:Na₂S₂O₃ na:NaOH po₄:H₃PO₄ s:H₂SO₄ zanna:ZnAc₂+NaOH

Checked/Labeled by: YL

Reviewed by: WLS

Scanned by: YL

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 510 E. 14th St. Date 12-02-08

Job Number 081202-MT2 Technician M. Todd Page 1 of 1

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
MW-1	X								
MW-2	X								
MW-3	Y								
MW-4	X								
MW-5	X								

*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: _____

WELL GAUGING DATA

4
1
2
3
3
5

Project # 081202-MT2

Date 12-02-09

Client Shell

Site 510 E 14th St.

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
MW-1	1100	4					11.15	20.60		2
MW-2	1109	4				10.12	23.91	5		
MW-3	1050	4				10.38	29.24	4		
MW-4	1055	4				10.20	21.70	1		
MW-5	1104	4				9.93	21.76	↓		3

SHELL WELL MONITORING DATA SHEET

BTS #: 081202-MTZ	Site: 510 E 14 th
Sampler: MT	Date: 12-02-08
Well I.D.: MW 2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 23.91	Depth to Water (DTW): 10.12
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]: 12.88	

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: _____

$$\frac{9 \text{ (Gals.)} \times 3}{1 \text{ Case Volume Specified Volumes}} = \frac{27}{\text{Calculated Volume}} \text{ Gals.}$$

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
1230	69.4	7.41	861.9	75.3	9	
1232	70.4	7.21	867.3	103	18	
1234	70.7	7.13	866.2	156	27	

Did well dewater? Yes No Gallons actually evacuated: 27

Sampling Date: 12-2-08 Sampling Time: 1241 Depth to Water: 12.43

Sample I.D.: MW 2 Laboratory: STL Other: CAL SCIENCE

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SCOCOL

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

Analyzed for: TPH-G BTEX MTBE TPH-D 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>08202.MW</u>	Site: <u>510 E 14th</u>
Sampler: <u>MW</u>	Date: <u>12-02-08</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth (TD): <u>29.24</u>	Depth to Water (DTW): <u>10.30</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>14.15</u>	

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

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____

$\frac{12.3 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 36.9 \text{ Gals.}$ <p style="text-align: center;">Specified Volumes Calculated Volume</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <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
1151	67.4	8.19	669.9	235	12.3	
1153	67.1	7.80	685.2	57.9	24.6	
1155	67.1	7.71	694.5	26.2	36.9	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>36.9</u>	
Sampling Date: <u>12-02-08</u>	Sampling Time: <u>1205</u>	Depth to Water: <u>11.48</u>
Sample I.D.: <u>MW-3</u>	Laboratory: STL Other <u>CAL SCIENCE</u>	
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>SEC COC</u>		
EB I.D. (if applicable): @ _____ Time	Duplicate I.D. (if applicable):	
Analyzed for: TPH-G BTEX MTBE TPH-D 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>08202-MT2</u>	Site: <u>510 E 14th</u>
Sampler: <u>MT</u>	Date: <u>12-02-08</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth (TD): <u>21.70</u>	Depth to Water (DTW): <u>10.20</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>12.44</u>	

Purge Method: Bailer Disposable Bailer Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <input checked="" type="checkbox"/> Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$$\frac{7.3 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 21.9 \text{ Gals.}$$
 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 μS)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1115</u>	<u>69.0</u>	<u>7.24</u>	<u>385.9</u>	<u>51.6</u>		
<u>1116</u>	<u>Dewatered</u>		<u>@ 9 gls</u>			<u>DTW = 19.41</u>
<u>1303</u>	<u>69.4</u>	<u>6.88</u>	<u>439.9</u>	<u>192</u>		

Did well dewater? Yes No Gallons actually evacuated: 9

Sampling Date: 12-02-08 Sampling Time: 1303 Depth to Water: 12.36

Sample I.D.: MW-4 Laboratory: STL Other: CAL SCIENCE

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see COC

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

Analyzed for: TPH-G BTEX MTBE TPH-D 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>081202-MT2</u>	Site: <u>510 E 14th</u>
Sampler: <u>MT</u>	Date: <u>12-02-08</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth (TD): <u>21.76</u>	Depth to Water (DTW): <u>9.93</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>12.30</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

$\frac{7.7 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 23.1 \text{ Gals.}$	<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
<u>1130</u>	<u>71.3</u>	<u>9.91</u>	<u>1934</u>	<u>96.6</u>	<u>7.7</u>	
<u>Dewatered @ 11g/s DTW = 19.78</u>						
<u>1315</u>	<u>72.8</u>	<u>7.35</u>	<u>965.3</u>	<u>92.6</u>		

Did well dewater? Yes No Gallons actually evacuated: 7

Sampling Date: 12-02-08 Sampling Time: 1315 Depth to Water: 12.01

Sample I.D.: MW-5 Laboratory: STL Other: CAL SCIENCE

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE COC

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

Analyzed for: TPH-G BTEX MTBE TPH-D 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