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11:59 am, Feb 13, 2008

Alameda County Environmental Health



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.1.brown@shell.com

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

Re:

Former Shell 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,

Denis L. Brown Project Manager

19449 Riverside Drive, Suite 230, Sonoma, California 95476 Telephone: 707-935-4850 Facsimile: 707-935-6649

www.CRAworld.com

February 12, 2008

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

Re: **Groundwater Monitoring Report – Fourth Quarter 2007**

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

Dear Mr. Wickham:

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.

If you have any questions regarding the contents of this document, please call Dennis Baertschi at (707) 268-3813.

Sincerely,

Conestoga-Rovers & Associates

Dennis Baertschi

Project Manager

Joe W. Neely, PG

Jurely

Mr. Denis Brown, Shell cc:



GROUNDWATER MONITORING REPORT – FOURTH QUARTER 20077

Site Address 510 East 14th Street (506-510 International

Boulevard)

Site Use Shell-branded Service Station

Shell Project Manager Denis Brown

Consultant and Contact Person CRA, Dennis Baertschi

Lead Agency and Contact ACHCSA, Jerry Wickham

Agency Case No. RO0002853

Shell SAP Code 135695

Shell Incident No. <u>97601734</u>

Date of Most Recent Agency Correspondence November 1, 2006

Current Quarter's Activities

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

2. CRA prepared a vicinity map (Figure 1) and a groundwater contour and chemical concentration map (Figure 2). The Blaine report, presenting the analytical data, is included in Attachment A.

Current Quarter's Findings

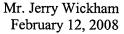
Groundwater Flow Direction Southwesterly

Hydraulic Gradient 0.02

Depth to Water 9.52 to 10.69 feet below top of well casing

Proposed Activities for Next Quarter

1. Blaine will gauge and sample wells during the second month of the quarter, according to the established monitoring program for this site, and CRA will prepare a report.





Figures:

1 - Vicinity Map

2 - Groundwater Contour and Chemical Concentration Map

Attachment:

A - Blaine Tech Services, Inc. - Groundwater Monitoring Report

Conestoga-Rovers & Associates (CRA) prepared this document for use by our client and appropriate regulatory agencies. It is based partially on information available to CRA from outside sources and/or in the public domain, and partially on information supplied by CRA and its subcontractors. CRA makes no warranty or guarantee, expressed or implied, included or intended in this document, with respect to the accuracy of information obtained from these outside sources or the public domain, or any conclusions or recommendations based on information that was not independently verified by CRA. This document represents the best professional judgment of CRA. None of the work performed hereunder constitutes or shall be represented as a legal opinion of any kind or nature.

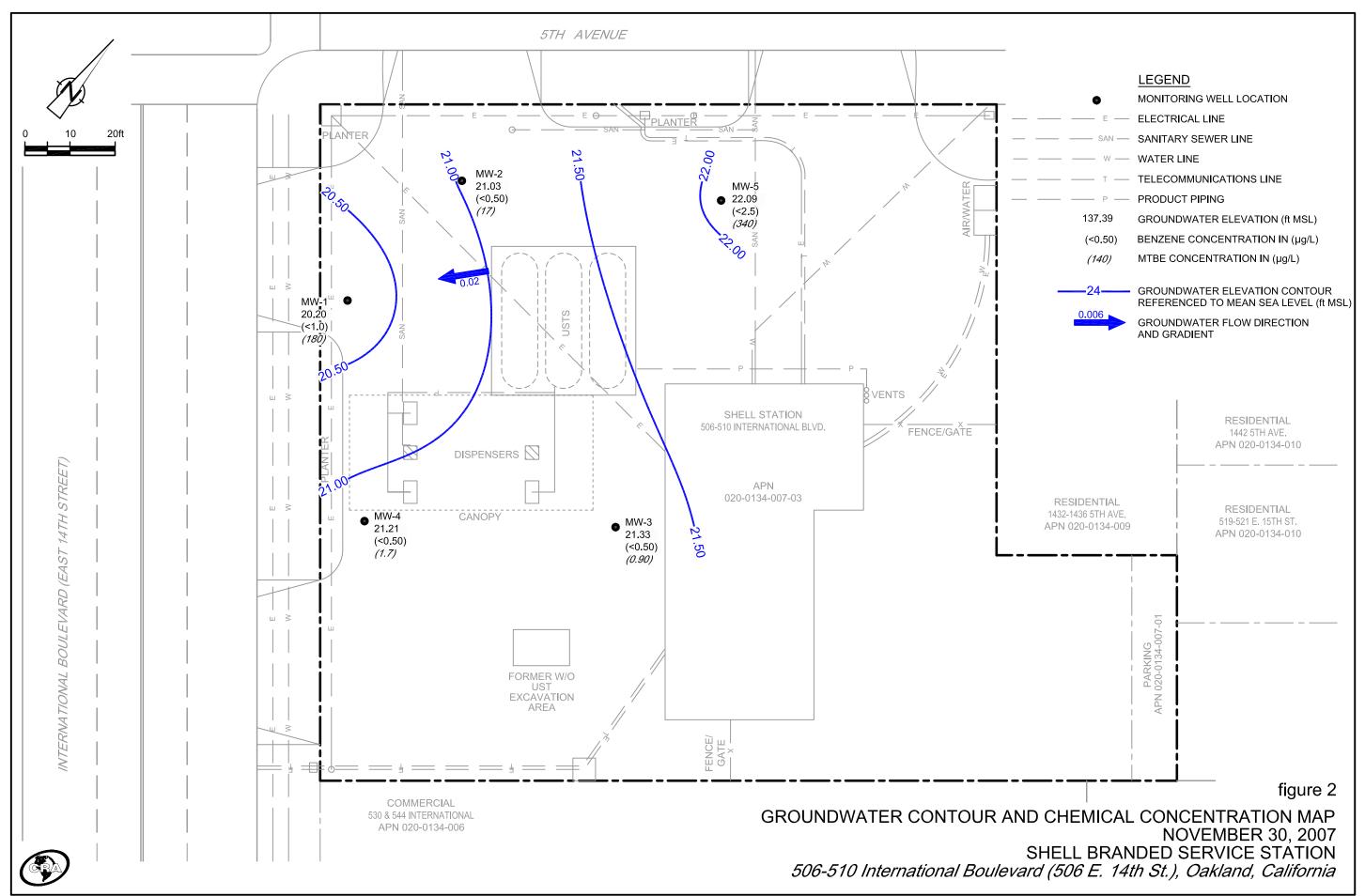
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Shell-branded Service Station

506 International Boulevard (506 E. 14th St.) Oakland, California



Vicinity Map



Attachment A

Blaine Tech Services, Inc. Groundwater Monitoring Report



GROUNDWATER SAMPLING SPECIALISTS SINCE 1985

December 18, 2007

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

> Fourth Quarter 2007 Groundwater Monitoring at Shell-branded Service Station 510 E. 14th Street Oakland, CA

Monitoring performed on November 30, 2007

Groundwater Monitoring Report 071130-KF-2

This report covers the routine monitoring of groundwater wells at this Shell-branded 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/ks

attachments: Cumulative Table of WELL CONCENTRATIONS

Certified Analytical Report

Field Data Sheets

cc: Dennis Baertschi Conestoga-Rovers & Associates 19449 Riverside Dr., Suite 230 Sonoma, CA 95476

WELL CONCENTRATIONS

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

i -									·										
							MTBE								Depth to	GW			
Well ID	Date	TPPH	В	Т	Е	X	8260	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	TOC	Water	Elevation			
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(MSL)	(ft.)	(MSL)			
MW-1	08/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.85	10.98	19.87			
MW-1	08/29/2006	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	02/09/2007	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	06/01/2007	<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	08/15/2007	<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-2	08/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.96	9.91	21.05			
MW-2	08/29/2006	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	02/09/2007	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	06/01/2007	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	08/15/2007	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-3	08/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.02	10.00	22.02			
MW-3	08/29/2006	<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	02/09/2007	<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			
MW-3	06/01/2007	<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	08/15/2007	<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-4	08/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.10	9.91	21.19			
MW-4	08/29/2006	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	02/09/2007	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			

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)
<u> </u>		(-5 /	(-3 /	(-3 /	(-3 /	(-3 /	(-5 /	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(-3 /	(-5 /	(-3 /	(*3 /	(-5 /	<u> </u>	(- /	(- /
MW-4	06/01/2007	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	08/15/2007	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-5	08/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.61	9.98	21.63
MW-5	08/29/2006	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	02/09/2007	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	06/01/2007	<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	08/15/2007	<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

WELL CONCENTRATIONS

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

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

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

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, 2007

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

Subject: Calscience Work Order No.: 07-12-0160

> 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 12/4/2007 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,

Calscience Environmental Laboratories, Inc.

Danilletonic-

Danielle Gonsman

Project Manager

NELAP ID: 03220CA

CSDLAC ID: 10109

SCAQMD ID: 93LA0830

7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 ·

FAX: (714) 894-7501



Analytical Report



Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method: 12/04/07 07-12-0160 EPA 5030B EPA 8015B (M)

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

Page 1 of 2

		, 0,	-						ago : 0: <u>2</u>
Client Sample Numb	er		Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-1			07-12-0160-1-D	11/30/07	Aqueous	GC 30	12/05/07	12/05/07	071205B02
Comment(s):	-The sample chromatog						e specified st	tandard. Qu	uantitation
<u>Parameter</u>		Result	RL	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline		120	50	1		ug/L			
Surrogates:		REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenz	rene	84	38-134						
MW-2			07-12-0160-2-D	11/30/07	Aqueous	GC 30	12/05/07	12/05/07	071205B02
<u>Parameter</u>		<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline		1000	250	5		ug/L			
Surrogates:		REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenz	rene	90	38-134						
MW-3			07-12-0160-3-D	11/30/07	Aqueous	GC 30	12/05/07	12/05/07	071205B02
<u>Parameter</u>		Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
TPH as Gasoline		ND	50	1		ug/L			
Surrogates:		REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenz	rene	83	38-134						
MW-4			07-12-0160-4-D	11/30/07	Aqueous	GC 30	12/05/07	12/05/07	071205B02
<u>Parameter</u>		Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline		87	50	1		ug/L			
Surrogates:		REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenz	zene	88	38-134						



Analytical Report



Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method: 12/04/07 07-12-0160 EPA 5030B EPA 8015B (M)

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

Page 2 of 2

Client Sample Numb	er		Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-5			07-12-0160-5-D	11/30/07	Aqueous	GC 30	12/05/07	12/05/07	071205B02
Comment(s):	-The sample chromatogof the unknown hydroca	, , ,			0 1	•	specified s	tandard. Qu	uantitation
<u>Parameter</u>	·	Result	RL	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline		210	50	1		ug/L			
Surrogates:		REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenz	zene	83	38-134						
Method Blank			099-12-436-1,222	N/A	Aqueous	GC 30	12/05/07	12/05/07	071205B02

	Method Blank		099-12-436-1,222	N/A	Aqueous	GC 30	12/05/07	12/05/07	071205B02	
_										
<u>F</u>	<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>				
٦	TPH as Gasoline	ND	50	1		ug/L				
5	Surrogates:	REC (%)	Control Limits		<u>Qual</u>					
1	,4-Bromofluorobenzene	86	38-134							



Page 1 of 3



Analytical Report



 Blaine Tech Services, Inc.
 Date Received:
 12/04/07

 1680 Rogers Avenue
 Work Order No:
 07-12-0160

 San Jose, CA 95112-1105
 Preparation:
 EPA 5030B

 Method:
 EPA 8260B

 Units:
 ug/L

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

MW-3

Toluene-d8

Client Sample Number			Lab Sai Numb	•	Date Collected	Matrix	Instrumen	Date t Prepare	Dat d Analy	_	QC Batch ID
MW-1			07-12-	0160-1-A	11/30/07	Aqueous	GC/MS M	12/07/0	7 12/08	/07 0	71207L02
Comment(s): -Results were	evaluated to the	e MDL, co	ncentratio	ns >= to the l	MDL but < RI	_, if found, ar	e qualified w	ith a "J" flag.			
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	DF Qual	<u>Parameter</u>			Result	<u>RL</u>	MDL	DF Qual
Benzene	ND	1.0	0.28	2	Methyl-t-Bu	utyl Ether (M7	ГВЕ)	180	2.0	0.52	2
Ethylbenzene	ND	2.0	0.45	2	Tert-Butyl	Alcohol (TBA)	ND	20	11	2
Toluene	ND	2.0	0.54	2	Diisopropy	l Ether (DIPE)	ND	4.0	0.66	2
p/m-Xylene	ND	2.0	1.1	2	Ethyl-t-But	yl Ether (ETE	BE)	ND	4.0	0.37	2
o-Xylene	ND	2.0	0.34	2	Tert-Amyl-	Methyl Ether	(TAME)	ND	4.0	2.2	2
Surrogates:	REC (%)	Control I	<u>_imits</u>	<u>Qual</u>	Surrogates:	<u>.</u>		REC (%)	Control L	<u>imits</u>	<u>Qual</u>
Dibromofluoromethane	102	74-140			1,2-Dichlor	oethane-d4		108	74-146		
Toluene-d8	98	88-112			1,4-Bromo	fluorobenzen	е	93	74-110		
MW-2			07-12-	0160-2-A	11/30/07	Aqueous	GC/MS M	12/07/0	7 12/08	/07 0	71207L02

Comment(s):	ent(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.												
<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	DF (Qual	<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	DF Qual			
Benzene	ND	0.50	0.14	1		Methyl-t-Butyl Ether (MTBE)	17	1.0	0.26	1			
Ethylbenzene	ND	1.0	0.23	1		Tert-Butyl Alcohol (TBA)	ND	10	5.4	1			
Toluene	0.34	1.0	0.27	1	J	Diisopropyl Ether (DIPE)	ND	2.0	0.33	1			
p/m-Xylene	1.1	1.0	0.54	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.18	1			
o-Xylene	ND	1.0	0.17	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.1	1			
Surrogates:	<u>REC (%)</u>	Control	Limits	<u>(</u>	Qual	Surrogates:	REC (%)	Control	<u>Limits</u>	<u>Qual</u>			
Dibromofluoromet	hane 98	74-140				1,2-Dichloroethane-d4	103	74-146					
Toluene-d8	102	88-112				1,4-Bromofluorobenzene	93	74-110					

11/30/07

Aqueous

GC/MS M

12/07/07

93

74-110

12/08/07 071207L02

Comment(s):	-Results were evaluated to the	e MDL. co	oncentratio	ons >= to th	e MDL but < RL, if found, are qualified	with a "J" flac	1.			
<u>Parameter</u>	Result	<u>RL</u>	MDL	<u>DF</u> Qu		Result	,. <u>RL</u>	MDL	DF Qu	<u>ual</u>
Benzene	ND	0.50	0.14	1	Methyl-t-Butyl Ether (MTBE)	0.90	1.0	0.26	1	J
Ethylbenzene	ND	1.0	0.23	1	Tert-Butyl Alcohol (TBA)	ND	10	5.4	1	
Toluene	ND	1.0	0.27	1	Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
p/m-Xylene	ND	1.0	0.54	1	Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.18	1	
o-Xylene	ND	1.0	0.17	1	Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.1	1	
Surrogates:	REC (%)	Control	<u>Limits</u>	<u>Qu</u>	al Surrogates:	REC (%)	Control	Limits	<u>Q</u> ı	ual
Dibromofluorometh	ane 103	74-140			1,2-Dichloroethane-d4	109	74-146			

07-12-0160-3-A

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

88-112

1,4-Bromofluorobenzene

Page 2 of 3



Analytical Report



 Blaine Tech Services, Inc.
 Date Received:
 12/04/07

 1680 Rogers Avenue
 Work Order No:
 07-12-0160

 San Jose, CA 95112-1105
 Preparation:
 EPA 5030B

 Method:
 EPA 8260B

 Units:
 ug/L

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

Client Sample Number	•		Lab Sa Numb	•	Date Collected	Matrix	Instrument	Date Prepared	Date I Analyze	ed QC Batch ID
MW-4			07-12-	0160-4-A	11/30/07	Aqueous	GC/MS M	12/07/07	12/08/0	7 071207L02
Comment(s): -Results were ev	valuated to the	e MDL, co	ncentratio	ons >= to the l	MDL but < RI	_, if found, are	e qualified w	th a "J" flag.		
<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	DF Qual	<u>Parameter</u>			Result	<u>RL</u>	MDL <u>DF</u> Qual
Benzene	ND	0.50	0.14	1	Methyl-t-Bu	utyl Ether (M7	ГВЕ)	1.7	1.0	0.26 1
Ethylbenzene	0.25	1.0	0.23	1 J	Tert-Butyl	Alcohol (TBA)	ND	10 5	5.4 1
Toluene	ND	1.0	0.27	1	Diisopropy	l Ether (DIPE	·)	ND	2.0).33 1
p/m-Xylene	ND	1.0	0.54	1	Ethyl-t-But	yl Ether (ETE	BE)	ND	2.0	0.18 1
o-Xylene	ND	1.0	0.17	1	Tert-Amyl-	Methyl Ether	(TAME)	ND	2.0	1.1 1
Surrogates:	REC (%)	Control L	<u>_imits</u>	<u>Qual</u>	Surrogates:			REC (%)	Control Lin	<u>nits</u> <u>Qual</u>
Dibromofluoromethane	99	74-140			1,2-Dichlor	oethane-d4		102	74-146	
Toluene-d8	100	88-112			1,4-Bromo	fluorobenzen	е	93	74-110	
MW-5			07-12-	0160-5-B	11/30/07	Aqueous	GC/MS M	12/08/07	12/08/0	7 071208L01

Comment(s): -	Results were eval	uated to the	MDL, cor	ncentration	ns >= to the N	MDL but < RL, if found, are qualified	with a "J" flag.			
<u>Parameter</u>		Result	<u>RL</u>	MDL	DF Qual	<u>Parameter</u>	Result	<u>RL</u>	MDL C	OF Qual
Benzene		ND	2.5	0.70	5	Methyl-t-Butyl Ether (MTBE)	340	5.0	1.3	5
Ethylbenzene		ND	5.0	1.1	5	Tert-Butyl Alcohol (TBA)	ND	50	27	5
Toluene		ND	5.0	1.4	5	Diisopropyl Ether (DIPE)	ND	10	1.7	5
p/m-Xylene		ND	5.0	2.7	5	Ethyl-t-Butyl Ether (ETBE)	ND	10	0.92	5
o-Xylene		ND	5.0	0.84	5	Tert-Amyl-Methyl Ether (TAME)	ND	10	5.6	5
Surrogates:		REC (%)	Control L	<u>.imits</u>	<u>Qual</u>	Surrogates:	REC (%)	Control Lir	<u>nits</u>	Qual
Dibromofluorometha	ane	98	74-140			1,2-Dichloroethane-d4	103	74-146		
Toluene-d8		98	88-112			1,4-Bromofluorobenzene	93	74-110		
Method Blank				099-10-	-006-23,677	N/A Aqueous GC/MS	M 12/07/07	7 12/08/0	7 071207	L02

Comment(s): -Re	sults were evaluated to the	e MDL, co	oncentratio	ons >= to the	MDL but < RL, if found, are qualified	with a "J" flag	J.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	DF Qua	Parameter Parameter	Result	<u>RL</u>	<u>MDL</u>	DF Qual
Benzene	ND	0.50	0.14	1	Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.26	1
Ethylbenzene	ND	1.0	0.23	1	Tert-Butyl Alcohol (TBA)	ND	10	5.4	1
Toluene	ND	1.0	0.27	1	Diisopropyl Ether (DIPE)	ND	2.0	0.33	1
p/m-Xylene	ND	1.0	0.54	1	Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.18	1
o-Xylene	ND	1.0	0.17	1	Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.1	1
Surrogates:	<u>REC (%)</u>	Control	<u>Limits</u>	<u>Qua</u>	Surrogates:	REC (%)	Contro	l Limits	<u>Qual</u>
Dibromofluoromethane	101	74-140			1,2-Dichloroethane-d4	102	74-146		
Toluene-d8	99	88-112			1.4-Bromofluorobenzene	94	74-110		

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

12/04/07

07-12-0160

EPA 5030B

Page 3 of 3



Analytical Report



Blaine Tech Services, Inc.

1680 Rogers Avenue

San Jose, CA 95112-1105

Date Received:

Work Order No:

Preparation:

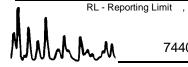
Method:

Method: EPA 8260B Units: ug/L

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

Lab Sample Date Date Date Client Sample Number Collected Matrix Instrument Prepared Analyzed QC Batch ID

Method Blank				099-10	0-006-23,0	682	N/A	Aqueous	GC/MS M	12/08/07	12/08/	07 07	1208L01
Comment(s):	-Results were eva	luated to the	e MDL, co	ncentratio	ons >= to	the N	/IDL but < RL, i	f found, are	qualified wi	th a "J" flag.			
<u>Parameter</u>		Result	<u>RL</u>	<u>MDL</u>	DF C	Qual	<u>Parameter</u>			Result	<u>RL</u>	<u>MDL</u>	DF Qual
Benzene		ND	0.50	0.14	1		Methyl-t-Buty	l Ether (MT	BE)	ND	1.0	0.26	1
Ethylbenzene		ND	1.0	0.23	1		Tert-Butyl Ald	cohol (TBA)		ND	10	5.4	1
Toluene		ND	1.0	0.27	1		Diisopropyl E	ther (DIPE)		ND	2.0	0.33	1
p/m-Xylene		ND	1.0	0.54	1		Ethyl-t-Butyl I	Ether (ETB	≣)	ND	2.0	0.18	1
o-Xylene		ND	1.0	0.17	1		Tert-Amyl-Me	ethyl Ether (TAME)	ND	2.0	1.1	1
Surrogates:		REC (%)	Control I	<u>_imits</u>	<u>Q</u>	<u>)ual</u>	Surrogates:			REC (%)	Control L	mits_	<u>Qual</u>
Dibromofluoromet	hane	98	74-140				1,2-Dichloroe	thane-d4		102	74-146		
Toluene-d8		100	88-112				1,4-Bromoflu	orobenzene		92	74-110		



DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method: 12/04/07 07-12-0160 EPA 5030B EPA 8015B (M)

Project 510 E. 14th Street, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
07-12-0202-1	Aqueous	GC 30	12/05/07		12/05/07	071205S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	<u>Qualifiers</u>
TPH as Gasoline	108	109	68-122	1	0-18	

MMM_



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method: 12/04/07 07-12-0160 EPA 5030B EPA 8260B

Project 510 E. 14th Street, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number	
MW-2	Aqueous	GC/MS M	12/07/07	12/08/07		071207S02	
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	<u>Qualifiers</u>	
	00	00	00.440	•	0.7		
Benzene	98	99	88-118	2	0-7		
Carbon Tetrachloride	93	99	67-145	7	0-11		
Chlorobenzene	98	100	88-118	2	0-7		
1,2-Dibromoethane	96	102	70-130	6	0-30		
1,2-Dichlorobenzene	93	99	86-116	6	0-8		
1,1-Dichloroethene	96	99	70-130	3	0-25		
Ethylbenzene	101	102	70-130	1	0-30		
Toluene	101	102	87-123	1	0-8		
Trichloroethene	97	100	79-127	3	0-10		
Vinyl Chloride	79	91	69-129	14	0-13	4	
Methyl-t-Butyl Ether (MTBE)	88	97	71-131	7	0-13		
Tert-Butyl Alcohol (TBA)	82	90	36-168	9	0-45		
Diisopropyl Ether (DIPE)	94	101	81-123	7	0-9		
Ethyl-t-Butyl Ether (ETBE)	91	99	72-126	9	0-12		
Tert-Amyl-Methyl Ether (TAME)	90	97	72-126	7	0-12		
Ethanol	94	106	53-149	11	0-31		

MANA_



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method: 12/04/07 07-12-0160 EPA 5030B EPA 8260B

Project 510 E. 14th Street, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
07-12-0158-1	Aqueous	GC/MS M	12/08/07	12/08/07		071208S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	98	88-118	2	0-7	
Carbon Tetrachloride	93	97	67-145	3	0-11	
Chlorobenzene	98	100	88-118	2	0-7	
1,2-Dibromoethane	93	101	70-130	8	0-30	
1,2-Dichlorobenzene	96	96	86-116	1	0-8	
1,1-Dichloroethene	98	100	70-130	2	0-25	
Ethylbenzene	103	104	70-130	0	0-30	
Toluene	100	102	87-123	2	0-8	
Trichloroethene	97	97	79-127	0	0-10	
Vinyl Chloride	82	89	69-129	8	0-13	
Methyl-t-Butyl Ether (MTBE)	89	93	71-131	4	0-13	
Tert-Butyl Alcohol (TBA)	77	86	36-168	11	0-45	
Diisopropyl Ether (DIPE)	95	97	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	90	92	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	89	93	72-126	4	0-12	
Ethanol	97	102	53-149	4	0-31	

MMM_

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: Work Order No: Preparation: Method:

07-12-0160 EPA 5030B EPA 8015B (M)

N/A

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

Quality Control Sample ID	Matrix	Instrument	Date Prepare			LCS/LCSD Bato Number	h
099-12-436-1,222	Aqueous	GC 30	12/05/0	7 12/05	5/07	071205B02	
<u>Parameter</u>	LCS %	KREC LCSD	%REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
TPH as Gasoline	109	10	8	78-120	1	0-10	

Muha_

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate

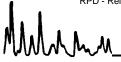


Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method: N/A 07-12-0160 EPA 5030B EPA 8260B

EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Analy		LCS/LCSD Bate Number	ch
099-10-006-23,677	Aqueous	GC/MS M	12/07/07	12/08	/07	071207L02	
<u>Parameter</u>	LCS %F	REC LCSD	%REC %F	REC CL	<u>RPD</u>	RPD CL	Qualifiers
Benzene	105	100	8	34-120	4	0-8	
Carbon Tetrachloride	102	102	(63-147	0	0-10	
Chlorobenzene	103	103	8	39-119	0	0-7	
1,2-Dibromoethane	107	104	8	30-120	3	0-20	
1,2-Dichlorobenzene	102	100	8	39-119	2	0-9	
1,1-Dichloroethene	101	101	7	77-125	0	0-16	
Ethylbenzene	106	104	8	30-120	2	0-20	
Toluene	107	103	8	33-125	4	0-9	
Trichloroethene	101	98	8	39-119	3	0-8	
Vinyl Chloride	87	92	6	63-135	5	0-13	
Methyl-t-Butyl Ether (MTBE)	100	92	8	32-118	8	0-13	
Tert-Butyl Alcohol (TBA)	87	78	2	46-154	11	0-32	
Diisopropyl Ether (DIPE)	106	98	8	31-123	7	0-11	
Ethyl-t-Butyl Ether (ETBE)	100	92	7	74-122	9	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	93	7	76-124	7	0-10	
Ethanol	109	103	6	30-138	6	0-32	





Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method: N/A 07-12-0160 EPA 5030B EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date d Analyzed		LCS/LCSD Bate Number	ch
099-10-006-23,682	Aqueous	GC/MS M	12/08/07	12/08	/07	071208L01	
Parameter	LCS %	REC LCSD	%REC %	REC CL	<u>RPD</u>	RPD CL	Qualifiers
Benzene	98	99		84-120	1	0-8	
Carbon Tetrachloride	99	101		63-147	2	0-10	
Chlorobenzene	100	101		89-119	1	0-7	
1,2-Dibromoethane	100	101		80-120	0	0-20	
1,2-Dichlorobenzene	97	97		89-119	0	0-9	
1,1-Dichloroethene	101	101		77-125	1	0-16	
Ethylbenzene	102	103		80-120	1	0-20	
Toluene	99	101		83-125	2	0-9	
Trichloroethene	97	97		89-119	0	0-8	
Vinyl Chloride	82	91		63-135	10	0-13	
Methyl-t-Butyl Ether (MTBE)	94	91		82-118	4	0-13	
Tert-Butyl Alcohol (TBA)	87	76		46-154	14	0-32	
Diisopropyl Ether (DIPE)	97	97		81-123	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	90	92		74-122	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	91	91		76-124	0	0-10	
Ethanol	103	101		60-138	3	0-32	



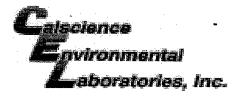
Glossary of Terms and Qualifiers



Work Order Number: 07-12-0160

Qualifier	<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.
Α	Result is the average of all dilutions, as defined by the method.
В	Analyte was present in the associated method blank.
С	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
Н	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.
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.
Χ	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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Field Sample	Identification	DATE	TIME	MATRIX	NO. OF CONT.	표	ТРН	BTE	5 Oxygenates ((MTBE, TBA, DIP	MTB	TBA	DIPE	TAM	ETB	1,2[ED ED	Etha Met	Ŧ	₹ SQT	Tota	Tota		Total	1.5"	WIFERAT ONE ON RECEIFT	
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MM	-2	1	1315	1	5	X		×	×																	
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WORK ORDER #: 0 7 - 1 2 - 0 1 6 0

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SAMPLE RECEIPT FORM

CLIENT: Blaine Tech Services	DATE: 12.4-07
TEMPERATURE - SAMPLES RECEIVED BY:	
CALSCIENCE COURIER: Chilled, cooler with temperature blank provided. Chilled, cooler without temperature blank. Chilled and placed in cooler with wet ice. Ambient and placed in cooler with wet ice. Ambient temperature.	LABORATORY (Other than Calscience Courier): °C Temperature blank. °C IR thermometer. Ambient temperature.
°C Temperature blank.	Initial:
CUSTODY SEAL INTACT:	
Sample(s): Cooler: No (Not Ir	Intact) : Not Present:
SAMPLE CONDITION:	
Chain-Of-Custody document(s) received with samples	
COMMENTS:	

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address	(510	E		4 + 6	St				_Date	11/3	30/0	.7
Job Number	07	1130) - 	1=	2	_ Tec	hnician	K		_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			
MW-1								X	No tan				
MW-2								×	No Fas				
MW-3								X	No tag				
					,			>	Notas				
MW-4 MW-5								×	No tag				***************************************
												,	
										***************************************		60	
×													
									A A A A A A A A A A A A A A A A A A A				
											·		

*Well box must mee "MONITORING WEL Notes:									ESIGN (12"or less) 2) WELL ECT	. IS MARKEE	WITH	THE WO	ORDS
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1													
BLAINE TECH SEE				SAN 1	-	SACRAN		LOS ANGELES	S SAN DIEGO SEATUS	-		ww.blainete	ech com

WELL GAUGING DATA

Project #	071130	<u> </u>	. 11/	30/07	Client _	Shell	
Site	510	E14th 5	<u> </u>	, Oakl	and		

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)		Depth to water (ft.)	bottom (ft.)	Survey Point: TOB or	Notes
MW-1	1120					 10.65	20,96		
MW-2	1132	4			:	9.93	24.00		
MW-7 MW-3 MW-4 MW-5	1115	4				10.69	29.21		
MW-4	1128	4				9.89	21.53		
MW-5	1124	4				9.52	21.65	V	
**									
							11.		

BTS#: 071130-KF2					Site: 97601734					
Sampler:					Date: (1/30/57					
Well I.D.: MU-1					Well Diameter: 2 3 4 6 8					
Total Well I	Depth (TD): Z	0.96	Depth	to Water	(DTW):	0.65			
Depth to Free Product:					Thickness of Free Product (feet):					
Referenced to: Grade					D.O. Meter (if req'd): YSI HACH					
DTW with 8	30% Recha	arge [(H	eight of Water	Colum	1 x 0.20)	+ DTW]: 12. ⁻	71			
Purge Method: Bailer Disposable Bailer					Waterra Sampling Method: Bailer Peristaltic Disposable Bailer stion Pump Extraction Port Dedicated Tubing Other: Well Diameter Multiplier Well Diameter Multiplier					
6.7 (Constitution of the last	jais.) A	3 fied Volum	$\frac{1}{\text{ces}} = \frac{20.1}{\text{Calculated Vo}}$	_ Gals. lume	1" 2" 3"	0.04 4" 0.16 6" 0.37 Other	0.65 1.47			
Time	Temp (°F)	рН	Cond. (mS or (TS)	l .	bidity ΓUs)	Gals. Removed	Observations			
1214	67.0	7.83	503	5	5.9	6.7	clear			
1215	67.7	7.65	500	((6	13.4	clear			
1216	67.9	7,59	504	1(8		20,1	clear			
						DIM	= 17.54			
Did well dewater? Yes No					Gallons actually evacuated: Zo.					
Sampling Date: 11/30/57 Sampling Time:				1						
Sample I.D.: $M\omega$ -1 Lab					Laboratory: STL Other_ Cal Science					
					Other: See Coc					
EB I.D. (if applicable):					Duplicate I.D. (if applicable):					
Analyzed for: TPH-G BTEX MTBE TPH-D Other:										
D.O. (if req'd): Pre-purge:				$^{ m mg}/_{ m L}$	P	ost-purge:	mg/L			
O.R.P. (if re	e-purge:		mV	P	ost-purge:	mV				

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		SHELL	L WELL MOR	MIORI	NG DA	IA SHEEL			
BTS#: 071130-KFZ					Site: 97601734				
Sampler:	KF			Date: \1/30/07					
Well I.D.:	MW-	2		Well Di	ameter:	2 3 4	6 8		
Total Well I	Depth (TD): Z'	4.00	Depth to	Water	(DTW): 9.9	13		
Depth to Fre	ee Product	•		Thickne	Thickness of Free Product (feet):				
Referenced	to:	PVC	Grade	D.O. M	eter (if	req'd):	YSI HACH		
DTW with 8	30% Recha	arge [(H	eight of Water	Column	x 0.20)	+ DTW]: ر	.74		
Purge Method:	Bailer Disposable Ba Positive Air E Electric Subm	Displacemen		Waterra Peristaltic tion Pump	V. III.D.	Sampling Method: Other:	XBailer Disposable Bailer Extraction Port Dedicated Tubing		
9.1 (0 1 Case Volume	Gals.) X Speci	3 fied Volum	$= \frac{27.3}{\text{Calculated Vo}}$	Gals.	Vell Diamete 1" 2" 3"	r Multiplier Well D 0.04 4" 0.16 6" 0.37 Other	0.65 1.47 radius ² * 0.163		
Time	Temp (°F)	рН	Cond. (mS or μS)	Turb (NT	-	Gals. Removed	Observations		
1306	68.7	7.92	832	7	56	9.1	Cloudy		
1308	69.6	7.65	810	7-	7. 9	18,2	Clear Clear		
1310	69.5	7.60	796	29.3		27.3	clear		
Did well dewater? Yes (No) Gallons actually evacuated: 27-3									
Sampling D	Date: $11/3$	0/07	Sampling Tim	e: 131	5	Depth to Water			
Sample I.D.: MW-7 Laboratory: STL Other Cal Science							CalSciace		
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Other:	Sel	Coc			
EB I.D. (if applicable):					Duplicate I.D. (if applicable):				
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Other:					
D.O. (if req'd): Pre-purge:					F	ost-purge:	mg/L		
O.R.P. (if r	eq'd): P	re-purge:		mV	F	ost-purge:	mV		

BTS #: 07/1130- 1=2	Site: -989	Site: 9896 9760 1739				
Sampler:	Date: 11/3	Date: 11/30/07				
Well I.D.: MW-3	Well Diameter	Well Diameter: 2 3 4 6 8				
Total Well Depth (TD): 29.21	Depth to Water	r (DTW): (O	. 69			
Depth to Free Product:	Thickness of F	Thickness of Free Product (feet):				
Referenced to: PVC Grade	D.O. Meter (if	D.O. Meter (if req'd): YSI HACH				
DTW with 80% Recharge [(Height of Wa	ater Column x 0.20)) + DTW]: (4.39			
Electric Submersible Other	Waterra Peristaltic Extraction Pump Well Diamete	Sampling Method: Other: Well I 0.04 4"	Disposable Bailer Extraction Port Dedicated Tubing Diameter Multiplier 0.65			
$\frac{\sqrt{7.0}}{1 \text{ Case Volume}} (\text{Gals.}) \times \frac{3}{\text{Specified Volumes}} = \frac{36.}{\text{Calculator}}$	Gals. 2" ed Volume 3"	0.16 6" 0.37 Other	1.47 radius ² * 0.163			
Time Temp (°F) pH (mS or μS		Gals. Removed	Observations			
1146 63.5 7.67 611	234	12	Cloudly			
(148 64.9 7.41 619	61	24	cloudy clear clear			
1150 65.2 7.43 628	26	36	clear			
		,				
Did well dewater? Yes 🔞	Gallons actuall	y evacuated:	36			
Sampling Date: 1/30/07 Sampling	Time: ((55					
Sample I.D.: MW-3	Laboratory:	Laboratory: STL Other Cal Science				
Analyzed for: TPH-G BTEX MTBE TPH-D Other: See Coc						
EB I.D. (if applicable):	Duplicate I.D.	Duplicate I.D. (if applicable):				
Analyzed for: TPH-G BTEX MTBE TPH-D Other:						
D.O. (if req'd): Pre-purge:	mg/ _L F	Post-purge:				
O.R.P. (if req'd): Pre-purge:	mV F	Post-purge:	mV			

BTS#: 071130-KF2	Site: 97601734						
Sampler:	Date: 11/30/07						
Well I.D.: MW-4	Well Diameter: 2 3 4 6 8						
Total Well Depth (TD): 21.53	Depth to Water	(DTW): 9-8	5 9				
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]:	12.22				
T. C.	Waterra Peristaltic ion Pump Well Diamete		Diameter Multiplier				
$\frac{7.6}{1 \text{ Case Volume}} (Gals.) \times \frac{3}{Specified Volumes} = \frac{72.8}{Calculated Volumes}$	Gals. 2"	0.04 4" 0.16 6" 0.37 Other	0.65 1.47 radius ² * 0.163				
Time Temp (°F) pH Cond. (mS or MS)	Turbidity (NTUs)	Gals. Removed	Observations				
1250 70.1 8.21 292	66	7.6	Clear				
1252 70.9 8.07 300	83	15.2	u				
+253 dewatercel at	16 ga	llers					
1421 68.4 7.65 405	105 0		clear				
Did well dewater? Yes No	Gallons actually evacuated:						
Sampling Date: 11/30/07 Sampling Time	: 1421	Depth to Wate	r: 12.22				
Sample I.D.: $MU-4$	Laboratory:	STL Other_	al Science				
Analyzed for: TPH-G BTEX MTBE TPH-D Other: Sec Co							
EB I.D. (if applicable):							
Analyzed for: TPH-G BTEX MTBE TPH-D Other:							
D.O. (if req'd): Pre-purge:	mg/L P	ost-purge:	mg/L				
O.R.P. (if req'd): Pre-purge:	mV P	ost-purge:	mV				

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BTS#: 0/1138-11-2	Site:	Site: 9/601/39				
Sampler: F	Date:	Date: 11/30/07				
Well I.D.: MW-5	Well D	Well Diameter: 2 3 (4) 6 8				
Total Well Depth (TD): 21.65	Depth t	o Water (1	DTW): 9.5	2		
Depth to Free Product:	Thickn	ess of Free	e Product (fee	t):		
Referenced to: Gra	nde D.O. M	D.O. Meter (if req'd): YSI HACH				
DTW with 80% Recharge [(Height of	Water Column	Column x 0.20) + DTW]: \((.95)				
Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible O	Waterra Peristaltic Extraction Pump ther	S Well Diameter	Sampling Method: Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing		
$\frac{7.9}{1 \text{ Case Volume}} \text{ (Gals.) X } \frac{3}{\text{Specified Volumes}} = \frac{2.3}{\text{Calc}}$	Gals.	1" 2" 3"	0.04 4" 0.16 6" 0.37 Other	0.65 1.47 radius ² * 0.163		
Time Temp (°F) pH (mS o		oidity (Us) C	Gals. Removed	Observations		
1234 69.2 11.39 13	04 60)	7.9	Clevrocler		
1236 70.3 11.65 15	-61 113	•	15.8	٠. ^٧		
1237 devatereel	at 16	galle	250			
1402 68.7 8.07 10	54 24	0/	Drw = 13.10	C1340		
Did well dewater? Yes No	Gallons	s actually	evacuated:	16		
Sampling Date: (1/30/07 Sampling Time: 1402 Depth to Water: 11.95						
Sample I.D.: MW-5	Labora	Laboratory: STL Other CalScience				
Analyzed for: TPH-G BTEX MTBE	TPH-D Other:	see C	00			
EB I.D. (if applicable):	ine Duplica	Duplicate I.D. (if applicable):				
Analyzed for: TPH-G BTEX MTBE TPH-D Other:						
D.O. (if req'd): Pre-purge:	$^{ m mg}/_{ m L}$	Pos	t-purge:	mg/ _L		
O.R.P. (if req'd): Pre-purge:	mV	Pos	t-purge:	mV		

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