



**CONESTOGA-ROVERS
& ASSOCIATES**

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TRANSMITTAL

DATE: November 15, 2011 REFERENCE NO.: 240594
PROJECT NAME: 610 Market Street, Oakland
TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

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Alameda County
Environmental Health

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QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Third Quarter 2011

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 (electronic copy)
Roger Schmidt, 1224 Contra Costa Drive, El Cerrito, CA 94530
SF Data Room (electronic copy)

Completed by: Peter Schaefer Signed: *Peter Schaefer*

Filing: **Correspondence File**



Jerry Wickham
Alameda County Environmental Health
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
610 Market Street
Oakland, California
SAP Code 135692
Incident No. 98995750
ACEH Case No. RO0000493

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 that reads "Denis L. Brown". The signature is written in a cursive style with a long, sweeping underline.

Denis L. Brown
Senior Program Manager



GROUNDWATER MONITORING REPORT - THIRD QUARTER 2011

**SHELL-BRANDED SERVICE STATION
610 MARKET STREET
OAKLAND, CALIFORNIA**

**SAP CODE 135692
INCIDENT NO. 98995750
AGENCY NO. RO0000493**

**NOVEMBER 15, 2011
REF. NO. 240594 (9)**

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).

1.1 SITE INFORMATION

Site Address	610 Market Street, Oakland
Site Use	Shell-branded Service Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000493
Shell SAP Code	135692
Shell Incident No.	98995750

Date of most recent agency correspondence was December 9, 2010 (electronic).

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 modified monitoring program for this site. Wells MW-6 and MW-7 were sampled during the second and third quarters, and wells MW-1 through MW-5 and MW-8 were sampled during the third quarter.

CRA prepared a vicinity map (Figure 1), a groundwater contour and chemical concentration map (Figure 2), and a groundwater data table (Table 1). Blaine's field notes are presented in Appendix A, and the laboratory reports are presented in Appendix B.

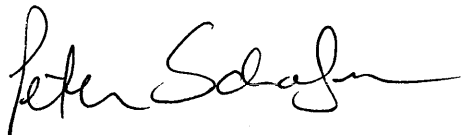
2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Variable
Hydraulic Gradient	Variable
Depth to Water	11.22 to 14.71 feet below top of well casing

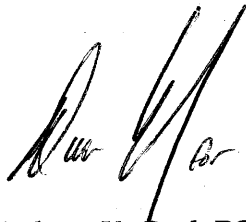
2.3 PROPOSED ACTIVITIES

Blaine will gauge and sample wells according to the modified monitoring program for this site outlined above. Wells MW-6 and MW-7 will be sampled quarterly, and wells MW-1 through MW-5 and MW-8 will be monitored semiannually during the first and third quarters. CRA will issue groundwater monitoring reports semiannually following the first and third quarter sampling events.

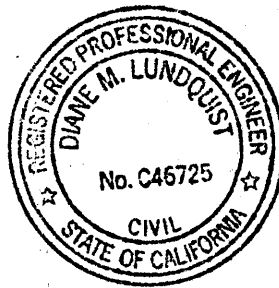
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



Peter Schaefer, CHG, CEG



Aubrey K. Cool, PG



FIGURES



I:\Shell\6-chars\2405--1240594 - Oakland 610 Market\240594-FIGURES\240594 VICINITY.A1

SOURCE: TOPOI MAPS

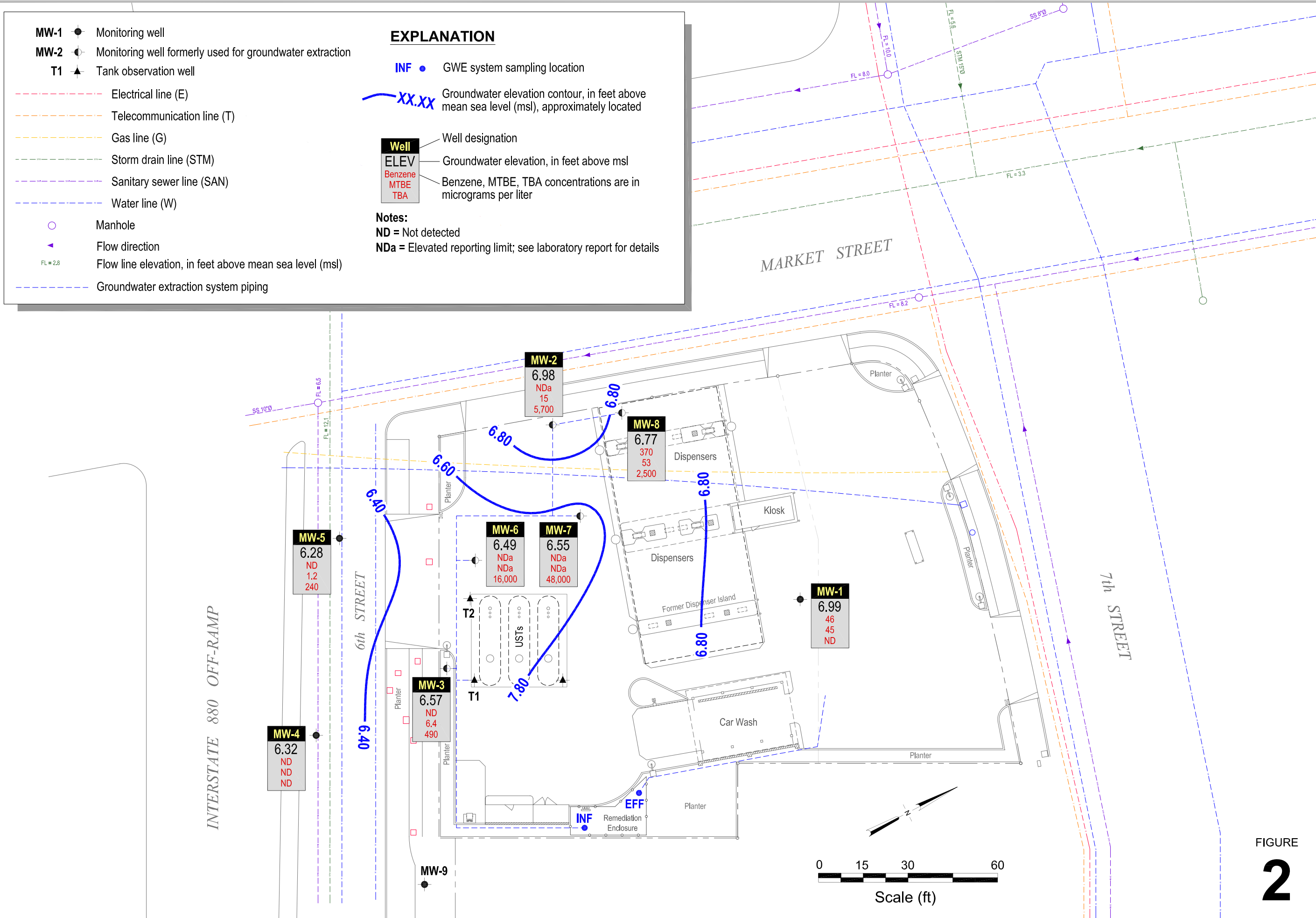
0 1/8 1/4 1/2 1
SCALE : 1" = 1/4 MILE

Shell-branded Service Station
610 Market Street
Oakland, California



**CONESTOGA-ROVERS
& ASSOCIATES**

Vicinity Map



I:\shellb-chara\240594-240594-Oakland 610 Market\240594-REPORTS\240594-RPTS-3011240594_30M11-GW.DWG

FIGURE 2

TABLE

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 (µg/L)	8260 (µg/L)							
MW-1	12/17/1998	2,200	20	<10	110	420	<50	---	---	---	---	---	21.70	13.71	7.99
MW-1	03/09/1999	4,320	25.8	<10.0	338	474	<100	---	---	---	---	---	21.70	13.03	8.67
MW-1	06/16/1999	6,150	107	84.0	615	1,050	<250	---	---	---	---	---	21.70	13.82	7.88
MW-1	09/29/1999	3,440	97.3	58.7	433	578	89.1	---	---	---	---	---	21.70	14.45	7.25
MW-1	12/22/1999	1,370	34.5	4.38	196	49	29.3	---	---	---	---	---	21.70	15.39	6.31
MW-1	03/21/2000	2,550	10.3	3.36	164	312	65.6	---	---	---	---	---	21.70	11.94	9.76
MW-1	06/20/2000	4,770	64.3	18.6	387	732	51.3	---	---	---	---	---	21.70	13.15	8.55
MW-1	09/21/2000	7,490	350	229	690	1,490	160	---	---	---	---	---	21.70	13.65	8.05
MW-1	11/30/2000	5,410	420	168	494	1,170	167	---	---	---	---	---	21.70	14.20	7.50
MW-1	03/06/2001	965	25.7	9.14	13.3	9	<25.0	---	---	---	---	---	21.70	12.99	8.71
MW-1	06/28/2001	5,900	190	71	360	910	---	110	---	---	---	---	21.70	13.98	7.72
MW-1	09/12/2001	7,400	240	110	460	1,300	---	130	---	---	---	---	21.70	14.15	7.55
MW-1	12/12/2001	1,700	100	30	120	300	---	98	---	---	---	---	21.70	13.75	7.95
MW-1	03/08/2002	1,100	63	12	74	83	---	50	---	---	---	---	21.70	13.22	8.48
MW-1	06/06/2002	2,300	95	31	130	290	---	49	---	---	---	---	21.70	13.57	8.13
MW-1	09/09/2002	3,600	150	44	200	590	---	54	---	---	---	---	21.70	14.05	7.65
MW-1	12/12/2002	2,200	130	14	120	310	---	46	---	---	---	---	21.70	14.20	7.50
MW-1	02/26/2003	580	30	2.9	25	48	---	27	---	---	---	---	21.70	13.57	8.13
MW-1	04/15/2003	---	---	---	---	---	---	---	---	---	---	---	21.70	13.67	8.03
MW-1	06/13/2003	440	18	6.1	33	88	---	24	---	---	---	---	21.70	13.85	7.85
MW-1	09/26/2003	54	3.8	0.51	4.7	7.5	---	11	---	---	---	---	21.70	14.63	7.07
MW-1	11/24/2003	120	5.6	0.87	8.4	20	---	17	---	---	---	---	21.70	14.86	6.84
MW-1	03/01/2004	350	20	3.8	38	100	---	18	---	---	---	---	21.70	12.85	8.85
MW-1	06/15/2004	100	1.8	<0.50	2.6	6.1	---	15	---	---	---	---	21.70	14.27	7.43
MW-1	09/16/2004	200	20	0.75	7.8	16	---	27	<5.0	<2.0	<2.0	<2.0	21.70	14.60	7.10
MW-1	12/29/2004	67	1.8	<0.50	1.8	3.5	---	15	---	---	---	---	21.70	14.27	7.43
MW-1	02/28/2005	60	1.8	<0.50	1.9	3.6	---	22	---	---	---	---	21.70	12.45	9.25
MW-1	03/23/2005	---	---	---	---	---	---	---	---	---	---	---	21.70	12.50	9.20

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 (µg/L)	8260 (µg/L)							
MW-1	05/18/2005	92	5.3	<0.50	5.4	12	---	9.7	---	---	---	---	21.70	12.22	9.48
MW-1	08/16/2005	---	---	---	---	---	---	---	---	---	---	---	21.70	13.51	8.19
MW-1	09/15/2005	210	16	<0.50	4.3	19	---	19	320	<2.0	<2.0	<2.0	21.70	14.00	7.70
MW-1	10/26/2005	---	---	---	---	---	---	---	---	---	---	---	21.70	14.30	7.40
MW-1	12/13/2005	<50.0	7.55	2.14	2.39	2.73	---	18.6	---	---	---	---	21.70	14.27	7.43
MW-1	03/08/2006	<50.0	1.95	<0.500	1.29	2.42	---	13.6	---	---	---	---	21.70	12.10	9.60
MW-1	06/27/2006	180	22	1.9	8.0	25	---	34	---	---	---	---	21.70	12.70	9.00
MW-1	09/25/2006	160	16	<0.50	2.1	11	---	23	<10	<1.0	<1.0	<1.0	21.70	14.07	7.63
MW-1	12/21/2006	120	3.2	<0.50	<0.50	<1.0	---	27	---	---	---	---	21.70	14.27	7.43
MW-1	03/20/2007	<50	1.8	<0.50	<0.50	<1.0	---	15	---	---	---	---	21.70	13.61	8.09
MW-1	06/18/2007	98	7.5	0.27 p	0.52 p	1.4	---	19	---	---	---	---	21.70	14.42	7.28
MW-1	08/30/2007	94 r	6.6	<1.0	<1.0	0.82 p	---	19	<10	<2.0	<2.0	<2.0	21.70	14.84	6.86
MW-1	12/28/2007	67 r	4.8	<1.0	<1.0	<1.0	---	23	---	---	---	---	21.70	15.01	6.69
MW-1	03/26/2008	<50	3.7	<1.0	<1.0	<1.0	---	12	---	---	---	---	21.70	14.16	7.54
MW-1	05/29/2008	310	20	1.3	13	39	---	22	---	---	---	---	21.70	14.76	6.94
MW-1	09/25/2008	66	3.8	<1.0	<1.0	<1.0	---	14	<10	<2.0	<2.0	<2.0	21.70	15.31	6.39
MW-1	12/16/2008	<50	2.6	<1.0	<1.0	<1.0	---	17	---	---	---	---	21.70	14.30	7.40
MW-1	02/26/2009	79	5.9	<1.0	<1.0	<1.0	---	20	---	---	---	---	21.70	14.51	7.19
MW-1	05/26/2009	160	15	<1.0	6.2	15	---	28	---	---	---	---	21.70	14.74	6.96
MW-1	09/02/2009	220	28	<1.0	<1.0	22	---	28	<10	<2.0	<2.0	<2.0	21.70	15.61	6.09
MW-1	03/10/2010	99	12	<1.0	<1.0	<1.0	---	27	---	---	---	---	21.70	13.85	7.85
MW-1	08/31/2010	170	23	<1.0	<1.0	18	---	20	13	<2.0	<2.0	<2.0	21.70	15.08	6.62
MW-1	03/08/2011	120	15	0.60	1.2	1.5	---	17	---	---	---	---	21.70	13.35	8.35
MW-1	09/19/2011	290	46	1.4	0.60	14	---	45	<10	<1.0	<1.0	1.8	21.70	14.71	6.99
MW-2	12/17/1998	<5,000	<50	<50	<50	<50	11,000	---	---	---	---	---	19.61	12.07	7.54
MW-2	03/09/1999	<250	5.20	<2.50	<2.50	<2.50	9,870	---	---	---	---	---	19.61	11.46	8.15
MW-2	06/16/1999	<50.0	0.569	<0.500	<0.500	<0.500	3,440	---	---	---	---	---	19.61	12.26	7.35

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 (µg/L)	8260 (µg/L)							
MW-2	09/29/1999	58.6	2.51	0.978	<0.500	<0.500	3,930	---	---	---	---	---	19.61	12.51	7.10
MW-2	12/22/1999	<2,000	50.4	<20.0	<20.0	<20.0	15,000	---	---	---	---	---	19.61	13.40	6.21
MW-2	03/21/2000	<5,000	94.7	<50.0	<50.0	<50.0	13,900	---	---	---	---	---	19.61	10.36	9.25
MW-2	06/20/2000	101	5.95	<0.500	<0.500	0.552	7,670	---	---	---	---	---	19.61	11.12	8.49
MW-2	09/21/2000	<2,000	<20.0	<20.0	<20.0	<20.0	4,460	---	---	---	---	---	19.61	11.95	7.66
MW-2	11/30/2000	81.1	4.46	0.924	0.841	3.23	3,450	---	---	---	---	---	19.61	12.48	7.13
MW-2	03/06/2001	<500	183	<5.00	<5.00	<5.00	14,000	---	---	---	---	---	19.61	11.10	8.51
MW-2	06/28/2001	<1,000	<10	<10	<10	<10	---	4,200	---	---	---	---	19.61	12.40	7.21
MW-2	09/12/2001	<2,000	120	<20	<20	<20	---	17,000	---	---	---	---	19.61	12.45	7.16
MW-2	12/12/2001	<1,000	<10	<10	<10	<10	---	3,000	---	---	---	---	19.61	12.14	7.47
MW-2	03/08/2002	<250	<2.5	<2.5	<2.5	<2.5	---	1,100	---	---	---	---	19.61	11.68	7.93
MW-2	06/06/2002	<500	<5.0	<5.0	<5.0	<5.0	---	2,000	---	---	---	---	19.61	11.95	7.66
MW-2	09/09/2002	<200	<2.0	<2.0	<2.0	<2.0	---	740	---	---	---	---	19.62	12.38	7.24
MW-2	12/12/2002	<200	<2.0	<2.0	<2.0	<2.0	---	1,000	---	---	---	---	19.62	12.40	7.22
MW-2	02/26/2003	<500	<5.0	<5.0	<5.0	<5.0	---	1,600	---	---	---	---	19.62	12.69	6.93
MW-2	04/15/2003	---	---	---	---	---	---	---	---	---	---	---	19.62	12.81	6.81
MW-2	06/13/2003	<500	<5.0	<5.0	<5.0	<10	---	790	---	---	---	---	19.62	12.65	6.97
MW-2	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	---	250	---	---	---	---	18.20	12.95	5.25
MW-2	11/24/2003	<50	<0.50	<0.50	<0.50	<1.0	---	87	---	---	---	---	18.20	12.89	5.31
MW-2	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	---	35	---	---	---	---	18.20	10.08	8.12
MW-2	06/15/2004	66 b	<0.50	<0.50	<0.50	<1.0	---	110	---	---	---	---	18.20	12.85	5.35
MW-2	09/16/2004	<50	<0.50	<0.50	<0.50	<1.0	---	26	<5.0	<2.0	<2.0	<2.0	18.20	12.00	6.20
MW-2	12/29/2004	<50	<0.50	0.73	<0.50	<1.0	---	43	---	---	---	---	18.20	11.60	6.60
MW-2	02/28/2005	---	---	---	---	---	---	---	---	---	---	---	18.20	9.71	8.49
MW-2	03/23/2005	340 f	3.9	<2.0	<2.0	<4.0	---	370	---	---	---	---	18.20	10.10	8.10
MW-2	05/18/2005	<100	4.6	<1.0	<1.0	3.3	---	160	---	---	---	---	18.20	10.21	7.99
MW-2	08/16/2005	---	---	---	---	---	---	---	---	---	---	---	18.20	10.53	7.67
MW-2	09/15/2005	<50	<0.50	<0.50	<0.50	<1.0	---	11	520	<2.0	<2.0	<2.0	18.20	11.98	6.22

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 (µg/L)	8260 (µg/L)							
MW-2	10/26/2005	---	---	---	---	---	---	---	---	---	---	---	18.20	11.38	6.82
MW-2	12/13/2005	<50.0	<0.500	1.66	<0.500	<0.500	---	2.11	---	---	---	---	18.20	10.71	7.49
MW-2	03/08/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	---	---	---	---	18.20	9.50	8.70
MW-2	06/27/2006	<100 m	<1.0 m	<1.0 m	<1.0 m	<1.0 m	---	9.1 m	---	---	---	---	18.20	9.73	8.47
MW-2	09/25/2006	83 n	<2.5	<2.5	<2.5	<5.0	---	<5.0	4,500	<5.0	<5.0	<5.0	18.20	11.08	7.12
MW-2	12/21/2006	160	<0.50	<0.50	<0.50	<1.0	---	1.6	---	---	---	---	18.20	11.30	6.90
MW-2	03/20/2007	<50	0.98	<0.50	<0.50	<1.0	---	18	---	---	---	---	18.20	10.76	7.44
MW-2	06/18/2007	86 q	<0.50	<1.0	<1.0	<1.0	---	2.4	---	---	---	---	18.20	11.35	6.85
MW-2	08/30/2007	110 r	<0.50	<1.0	<1.0	<1.0	---	2.2	2,700	6.3	0.30 p	<2.0	18.20	11.80	6.40
MW-2	12/28/2007	<50 r	<2.5	<5.0	<5.0	<5.0	---	2.1 p	---	---	---	---	18.20	11.69	6.51
MW-2	03/26/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	---	18.20	11.23	6.97
MW-2	05/29/2008	130	<0.50	<1.0	<1.0	<1.0	---	3.0	---	---	---	---	18.20	11.83	6.37
MW-2	09/25/2008	380	<0.50	<1.0	<1.0	<1.0	---	3.7	4,200	7.9	<2.0	<2.0	18.20	13.21	4.99
MW-2	12/16/2008	220	<1.0	<2.0	<2.0	<2.0	---	2.1	---	---	---	---	18.20	12.40	5.80
MW-2	02/26/2009	<50	<0.50	<1.0	<1.0	<1.0	---	1.9	---	---	---	---	18.20	10.56	7.64
MW-2	05/26/2009	140	<0.50	<1.0	<1.0	<1.0	---	2.6	---	---	---	---	18.20	11.03	7.17
MW-2	09/02/2009	270	<0.50	<1.0	<1.0	<1.0	---	2.2	4,600	4.9	<2.0	<2.0	18.20	12.01	6.19
MW-2	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	---	37	---	---	---	---	18.20	9.96	8.24
MW-2	08/31/2010	110	<0.50	<1.0	<1.0	<1.0	---	6.2	3,300	2.8	<2.0	<2.0	18.20	11.30	6.90
MW-2	03/08/2011	<50	0.66	<0.50	<0.50	<1.0	---	28	---	---	---	---	18.20	9.86	8.34
MW-2	09/19/2011	<250	<5.0 s	<5.0 s	<5.0 s	<10 s	---	15 s	5,700 s	<10 s	<10 s	<10 s	18.20	11.22	6.98
MW-3	12/17/1998	30,000	890	110	2,100	4,300	42,000	43,000	---	---	---	---	19.05	11.65	7.40
MW-3	03/09/1999	22,700	536	<200	1,030	1,510	35,400	38,500	---	---	---	---	19.05	11.03	8.02
MW-3	06/16/1999	19,300	625	129	805	1,210	42,400	51,600	---	---	---	---	19.05	11.89	7.16
MW-3	09/29/1999	20,200	727	155	1,000	1,180	84,100	136,000 a	---	---	---	---	19.05	12.35	6.70
MW-3	12/22/1999	44,500	767	64.4	1,810	2,090	191,000	186,000 a	---	---	---	---	19.05	13.45	5.60
MW-3	03/21/2000	<25,000	466	<250	727	2,280	126,000	155,000	---	---	---	---	19.05	10.00	9.05

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 (µg/L)	8260 (µg/L)							
MW-3	06/20/2000	16,200	1,140	98.8	1,140	1,410	579,000	376,000 a	---	---	---	---	19.05	11.15	7.90
MW-3	09/21/2000	<50,000	712	<500	520	795	293,000	298,000	---	---	---	---	19.05	11.58	7.47
MW-3	11/30/2000	18,000	1,050	124	1,120	2,010	543,000 a	403,000 a	---	---	---	---	19.05	12.10	6.95
MW-3	03/06/2001	19,900	1,290	115	1,450	1,760	706,000	149,000	---	---	---	---	19.05	11.00	8.05
MW-3	06/28/2001	<50,000	1,200	<250	1,100	1,300	---	610,000	---	---	---	---	19.05	11.96	7.09
MW-3	09/12/2001	<20,000	430	<200	230	480	---	390,000	---	---	---	---	19.05	12.05	7.00
MW-3	10/23/2001	11,000	350	<100	210	440	---	290,000	---	---	---	---	19.05	12.62	6.43
MW-3	12/12/2001	<20,000	280	<200	<200	<200	---	160,000	---	---	---	---	19.05	11.83	7.22
MW-3	03/08/2002	<20,000	270	<200	<200	<200	---	340,000	---	---	---	---	19.05	11.26	7.79
MW-3	06/06/2002	<50,000	290	<250	<250	<250	---	290,000	---	---	---	---	19.05	11.50	7.55
MW-3	09/09/2002	<20,000	<200	<200	<200	<200	---	230,000	---	---	---	---	19.06	11.92	7.14
MW-3	12/12/2002	<50,000	<200	<200	<200	<500	---	190,000	---	---	---	---	19.06	10.95	8.11
MW-3	02/26/2003	<25,000	<250	<250	<250	<250	---	210,000	---	---	---	---	19.06	15.01	4.05
MW-3	04/15/2003	---	---	---	---	---	---	---	---	---	---	---	19.06	15.12	3.94
MW-3	06/13/2003	<25,000	<250	<250	<250	<500	---	27,000	---	---	---	---	19.06	15.25	3.81
MW-3	09/26/2003	<10,000	<100	<100	<100	<200	---	15,000	---	---	---	---	18.08	c	---
MW-3	11/24/2003	<10,000	<100	<100	<100	<200	---	9,900	---	---	---	---	18.08	15.13	2.95
MW-3	03/01/2004	<10,000	<100	<100	<100	<200	---	8,000	---	---	---	---	18.08	9.97	8.11
MW-3	06/15/2004	<10,000	<100	<100	<100	<200	---	6,900	---	---	---	---	18.08	15.05	3.03
MW-3	09/16/2004	<500	<5.0	<5.0	<5.0	<10	---	1,000	75	<20	<20	<20	18.08	14.70	3.38
MW-3	12/29/2004	<250	2.8	<2.5	<2.5	<5.0	---	580	---	---	---	---	18.08	14.83	3.25
MW-3	02/28/2005	---	---	---	---	---	---	---	---	---	---	---	18.08	9.60	8.48
MW-3	03/23/2005	<1,000	<10	<10	<10	<20	---	1500	---	---	---	---	18.08	12.68	5.40
MW-3	05/18/2005	1200	49	<10	47	<20	---	3400	---	---	---	---	18.08	10.60	7.48
MW-3	08/16/2005	---	---	---	---	---	---	330	---	---	---	---	18.08	15.22	2.86
MW-3	09/15/2005	<1,000	<10	<10	<10	<20	---	140	180	<40	<40	<40	18.08	15.30	2.78
MW-3	10/26/2005	---	---	---	---	---	---	48	---	---	---	---	18.08	15.00	3.08
MW-3	12/13/2005	482	4.56	1.64 h	<0.500	<0.500	---	72.5	273	---	---	---	18.08	11.18	6.90

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 (µg/L)	8260 (µg/L)							
MW-3	03/08/2006	627	2.62	<0.500	1.71	1.25	--	175	483	--	--	--	18.08	14.95	3.13
MW-3	06/27/2006	530	8.3	<2.5	9.5	3.5	--	100	--	--	--	--	18.08	14.63	3.45
MW-3	09/25/2006	520	12	<2.5	6.5	<5.0	--	110	2,900	<5.0	<5.0	<5.0	18.08	11.23	6.85
MW-3	12/21/2006	120	2.2	<0.50	<0.50	<1.0	--	1.7	120	--	--	--	18.08	11.22	6.86
MW-3	03/20/2007	150	0.96	1.2	<0.50	<1.0	--	19	300	--	--	--	18.08	11.35	6.73
MW-3	06/18/2007	180	2.2	<1.0	<1.0	<1.0	--	14	780	--	--	--	18.08	11.22	6.86
MW-3	08/30/2007	200 r	3.5	<1.0	<1.0	0.29 p	--	29	1,500	<2.0	<2.0	<2.0	18.08	13.59	4.49
MW-3	12/28/2007	140 r	2.7	0.34 p	<1.0	<1.0	--	<1.0	98	--	--	--	18.08	11.79	6.29
MW-3	03/26/2008	120	1.3	1.6	<1.0	<1.0	--	3.4	150	--	--	--	18.08	11.05	7.03
MW-3	05/29/2008	130	2.4	<1.0	<1.0	<1.0	--	6.0	250	--	--	--	18.08	11.69	6.39
MW-3	09/25/2008	410	9.3	<1.0	<1.0	<1.0	--	13	1,200	<2.0	<2.0	<2.0	18.08	12.00	6.08
MW-3	12/16/2008	410	14	<1.0	<1.0	<1.0	--	5.5	560	--	--	--	18.08	11.71	6.37
MW-3	02/26/2009	640	3.1	<1.0	<1.0	<1.0	--	1.3	10	--	--	--	18.08	10.71	7.37
MW-3	05/26/2009	250	1.8	<1.0	<1.0	<1.0	--	2.2	59	--	--	--	18.08	11.53	6.55
MW-3	09/02/2009	260	5.3	<1.0	<1.0	<1.0	--	7.0	350	<2.0	<2.0	<2.0	18.08	12.34	5.74
MW-3	03/10/2010	89	<0.50	<1.0	<1.0	1.0	--	<1.0	<10	--	--	--	18.08	10.29	7.79
MW-3	08/31/2010	81	1.1	<1.0	<1.0	<1.0	--	5.5	230	<2.0	<2.0	<2.0	18.08	11.80	6.28
MW-3	03/08/2011	<50	<0.50	<0.50	<0.50	<1.0	--	<1.0	<10	--	--	--	18.08	10.37	7.71
MW-3	09/19/2011	100	<0.50	<0.50	<0.50	<1.0	--	6.4	490	<1.0	<1.0	<1.0	18.08	11.51	6.57
MW-4	05/13/2002	--	--	--	--	--	--	--	--	--	--	--	--	10.64	--
MW-4	05/20/2002	<1,000	<10	<10	<10	<10	--	4,600	--	--	--	--	--	10.64	--
MW-4	06/06/2002	<1,000	<10	<10	<10	<10	--	4,800	--	--	--	--	--	10.61	--
MW-4	09/09/2002	Unable to sample		--	--	--	--	--	--	--	--	18.03	11.07	6.96	
MW-4	09/18/2002	<250	<2.5	<2.5	<2.5	<2.5	--	1,000	--	--	--	18.03	11.15	6.88	
MW-4	12/12/2002	<100	<1.0	<1.0	<1.0	<1.0	--	370	--	--	--	18.03	11.13	6.90	
MW-4	02/26/2003	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0	--	--	--	18.03	10.61	7.42	
MW-4	04/15/2003	--	--	--	--	--	--	--	--	--	--	18.03	10.73	7.30	

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg</i> ($\mu\text{g/L}$)	<i>B</i> ($\mu\text{g/L}$)	<i>T</i> ($\mu\text{g/L}$)	<i>E</i> ($\mu\text{g/L}$)	<i>X</i> ($\mu\text{g/L}$)	<i>MTBE</i> 8020 ($\mu\text{g/L}$)	<i>MTBE</i> 8260 ($\mu\text{g/L}$)	<i>TBA</i> ($\mu\text{g/L}$)	<i>DIPE</i> ($\mu\text{g/L}$)	<i>ETBE</i> ($\mu\text{g/L}$)	<i>TAME</i> ($\mu\text{g/L}$)	<i>TOC</i> (ft MSL)	<i>Depth to</i> <i>Water</i> (ft TOC)	<i>GW</i> <i>Elevation</i> (ft MSL)
MW-4	06/13/2003	180 b	<0.50	110	<0.50	<1.0	---	2.3	---	---	---	---	18.03	10.88	7.15
MW-4	09/26/2003	<5,000	<50	<50	<50	<100	---	13,000	---	---	---	---	18.03	11.58	6.45
MW-4	11/24/2003	<13,000	<130	<130	<130	<250	---	11,000	---	---	---	---	18.03	11.78	6.25
MW-4	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	18.03	9.47	8.56
MW-4	06/15/2004	<500	<5.0	<5.0	<5.0	<10	---	630	---	---	---	---	18.03	11.38	6.65
MW-4	09/16/2004	<100	<1.0	12	<1.0	<2.0	---	280	280	<4.0	<4.0	<4.0	18.03	11.80	6.23
MW-4	12/29/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	18.03	10.63	7.40
MW-4	02/28/2005	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	18.03	9.20	8.83
MW-4	03/23/2005	---	---	---	---	---	---	---	---	---	---	---	18.03	9.43	8.60
MW-4	05/18/2005	1,900	<5.0	<5.0	16	97	---	910	---	---	---	---	18.03	9.75	8.28
MW-4	08/16/2005	---	---	---	---	---	---	---	---	---	---	---	18.03	10.85	7.18
MW-4	09/15/2005	<2,500	<25	<25	<25	85	---	5,100	400	<100	<100	<100	18.03	11.30	6.73
MW-4	10/26/2005	---	---	---	---	---	---	---	---	---	---	---	18.03	11.45	6.58
MW-4	12/13/2005	3,480	<0.500	1.54 h	<0.500	<0.500	---	2,490 a	201	---	---	---	18.03	11.70	6.33
MW-4	03/08/2006	1,560	<0.500	0.910	<0.500	3.39	---	0.870	<10.0	---	---	---	18.03	9.25	8.78
MW-4	06/27/2006	75	<0.50	18	<0.50	<0.50	---	63	<20	---	---	---	18.03	10.12	7.91
MW-4	09/25/2006	670 n	<10	<10	<10	<20	---	1,400	430	<20	<20	<20	18.03	11.23	6.80
MW-4	12/21/2006	<50	<0.50	<0.50	<0.50	<1.0	---	2.0	6.8	---	---	---	18.03	10.37	7.66
MW-4	03/20/2007	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	18.03	9.84	8.19
MW-4	06/18/2007	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	7.1 p	---	---	---	18.03	10.62	7.41
MW-4	08/30/2007	<50 r	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	18.03	11.93	6.10
MW-4	12/28/2007	160 r,q	<0.50	130	<1.0	<1.0	---	<1.0	<10	---	---	---	18.03	11.97	6.06
MW-4	03/26/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	18.03	11.34	6.69
MW-4	05/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	3.4	<10	---	---	---	18.03	11.87	6.16
MW-4	09/25/2008	<50	<0.50	1.3	<1.0	<1.0	---	4.5	<10	<2.0	<2.0	<2.0	18.03	12.35	5.68
MW-4	12/16/2008	630	<0.50	360	<1.0	<1.0	---	<1.0	<10	---	---	---	18.03	12.47	5.56
MW-4	02/26/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	18.03	10.29	7.74
MW-4	05/26/2009	<50	<0.50	3.6	<1.0	<1.0	---	<1.0	<10	---	---	---	18.03	11.74	6.29

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 (µg/L)	8260 (µg/L)							
MW-4	09/02/2009	<50	<0.50	<1.0	<1.0	<1.0	--	5.9	<10	<2.0	<2.0	<2.0	18.03	12.60	5.43
MW-4	03/10/2010	<50	<0.50	1.6	<1.0	<1.0	--	<1.0	<10	--	--	--	18.03	9.95	8.08
MW-4	08/31/2010	400	<0.50	<1.0	<1.0	<1.0	--	1.1	30	<2.0	<2.0	<2.0	18.03	12.12	5.91
MW-4	03/08/2011	73 n	<0.50	44	<0.50	<1.0	--	<1.0	<10	--	--	--	18.03	10.66	7.37
MW-4	09/19/2011	<50	<0.50	<0.50	<0.50	<1.0	--	<1.0	<10	<1.0	<1.0	<1.0	18.03	11.71	6.32
MW-5	05/13/2002	--	--	--	--	--	--	--	--	--	--	--	--	10.40	--
MW-5	05/20/2002	<2,500	<25	<25	<25	<25	--	17,000	--	--	--	--	--	10.41	--
MW-5	06/06/2002	<5,000	<50	<50	<50	<50	--	15,000	--	--	--	--	--	10.36	--
MW-5	09/09/2002	Unable to sample		--	--	--	--	--	--	--	--	--	17.78	10.82	6.96
MW-5	09/18/2002	<2,500	<25	<25	<25	<25	--	16,000	--	--	--	--	17.78	10.81	6.97
MW-5	12/12/2002	<2,500	<25	<25	<25	<25	--	13,000	--	--	--	--	17.78	10.83	6.95
MW-5	02/26/2003	<2,000	<20	<20	<20	<20	--	7,500	--	--	--	--	17.78	10.57	7.21
MW-5	04/15/2003	--	--	--	--	--	--	--	--	--	--	--	17.78	10.69	7.09
MW-5	06/13/2003	<2,500	<25	<25	<25	<50	--	4,400	--	--	--	--	17.78	10.82	6.96
MW-5	09/26/2003	<2,500	<25	<25	<25	<50	--	4,700	--	--	--	--	17.78	11.49	6.29
MW-5	11/24/2003	<10,000	<100	<100	<100	<200	--	7,100	--	--	--	--	17.78	11.70	6.08
MW-5	03/01/2004	<2,000	<20	<20	<20	<40	--	2,800	--	--	--	--	17.78	9.68	8.10
MW-5	06/15/2004	<2,000	<20	<20	<20	<40	--	2,100	--	--	--	--	17.78	11.28	6.50
MW-5	09/16/2004	<2,000	<20	<20	<20	<40	--	2,200	2,800	<80	<80	<80	17.78	11.62	6.16
MW-5	12/29/2004	<2,000	<20	<20	<20	<40	--	3,700	--	--	--	--	17.78	11.11	6.67
MW-5	02/28/2005	<200	<2.0	<2.0	<2.0	<4.0	--	740	--	--	--	--	17.78	9.50	8.28
MW-5	03/23/2005	--	--	--	--	--	--	--	--	--	--	--	17.78	9.70	8.08
MW-5	05/18/2005	<50 g	<0.50	<0.50	<0.50	<1.0	--	180	--	--	--	--	17.78	9.49	8.29
MW-5	06/17/2005	--	--	--	--	--	--	270	--	--	--	--	17.78	9.89	7.89
MW-5	07/15/2005	--	--	--	--	--	--	350	--	--	--	--	17.78	10.20	7.58
MW-5	08/16/2005	--	--	--	--	--	--	270	--	--	--	--	17.78	10.50	7.28
MW-5	09/15/2005	<250	<2.5	<2.5	<2.5	<5.0	--	500	670	<10	<10	<10	17.78	10.96	6.82

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-5	10/26/2005	---	---	---	---	---	---	260	---	---	---	---	17.78	11.22	6.56
MW-5	12/13/2005	438	<0.500	1.49 h	<0.500	<0.500	---	167	452	---	---	---	17.78	11.05	6.73
MW-5	03/08/2006	330	<0.500	<0.500	<0.500	<0.500	---	169	206	---	---	---	17.78	9.30	8.48
MW-5	06/27/2006	<50	<0.50	<0.50	<0.50	<0.50	---	60	75	---	---	---	17.78	9.83	7.95
MW-5	09/25/2006	<50	<0.50	<0.50	<0.50	<1.0	---	22	<10	<1.0	<1.0	<1.0	17.78	10.96	6.82
MW-5	12/21/2006	<50	<0.50	<0.50	<0.50	<1.0	---	2.4	<5.0	---	---	---	17.78	11.00	6.78
MW-5	03/20/2007	<50	<0.50	<0.50	<0.50	<1.0	---	1.7	<10	---	---	---	17.78	10.51	7.27
MW-5	06/18/2007	<50	<0.50	<1.0	<1.0	<1.0	---	2.0	61	---	---	---	17.78	11.18	6.60
MW-5	08/30/2007	<50 r	<0.50	<1.0	<1.0	<1.0	---	2.3	170	<2.0	<2.0	<2.0	17.78	11.65	6.13
MW-5	12/28/2007	<50 r	<0.50	<1.0	<1.0	<1.0	---	3.0	830	---	---	---	17.78	11.90	5.88
MW-5	03/26/2008	<50	<0.50	<1.0	<1.0	<1.0	---	1.7	55	---	---	---	17.78	11.11	6.67
MW-5	05/29/2008	65	<0.50	<1.0	<1.0	<1.0	---	3.9	940	---	---	---	17.78	11.52	6.26
MW-5	09/25/2008	64	<0.50	<1.0	<1.0	<1.0	---	3.3	560	<2.0	<2.0	<2.0	17.78	12.00	5.78
MW-5	12/16/2008	63	<0.50	<1.0	<1.0	<1.0	---	3.3	850	---	---	---	17.78	12.30	5.48
MW-5	02/26/2009	<50	<0.50	<1.0	<1.0	<1.0	---	2.1	850	---	---	---	17.78	11.08	6.70
MW-5	05/26/2009	<50	<0.50	<1.0	<1.0	<1.0	---	1.2	19	---	---	---	17.78	11.43	6.35
MW-5	09/02/2009	<50	<0.50	<1.0	<1.0	<1.0	---	1.6	180	<2.0	<2.0	<2.0	17.78	12.24	5.54
MW-5	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.3	170	---	---	---	17.78	10.59	7.19
MW-5	08/31/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.8	490	<2.0	<2.0	<2.0	17.78	11.75	6.03
MW-5	03/08/2011	<50	<0.50	<0.50	<0.50	<1.0	---	1.0	270	---	---	---	17.78	10.44	7.34
MW-5	09/19/2011	<50	<0.50	<0.50	<0.50	<1.0	---	1.2	240	<1.0	<1.0	<1.0	17.78	11.50	6.28
MW-6	03/28/2003	Well inaccessible	---	---	---	---	---	---	---	---	---	---	18.10	---	---
MW-6	04/07/2003	---	---	---	---	---	---	---	---	---	---	---	18.10	13.80	4.30
MW-6	04/15/2003	14,000	<250	<250	<250	<500	---	41,000	---	---	---	---	18.10	15.05	3.05
MW-6	06/13/2003	<10,000	<100	<100	<100	<200	---	27,000	---	---	---	---	18.10	14.42	3.68
MW-6	09/26/2003	<5,000	<50	<50	<50	<100	---	11,000	---	---	---	---	18.05	c	---
MW-6	11/24/2003	<10,000	<100	<100	<100	<200	---	5,000	---	---	---	---	18.05	14.68	3.37

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg</i> ($\mu\text{g/L}$)	<i>B</i> ($\mu\text{g/L}$)	<i>T</i> ($\mu\text{g/L}$)	<i>E</i> ($\mu\text{g/L}$)	<i>X</i> ($\mu\text{g/L}$)	<i>MTBE</i> 8020 ($\mu\text{g/L}$)	<i>MTBE</i> 8260 ($\mu\text{g/L}$)	<i>TBA</i> ($\mu\text{g/L}$)	<i>DIPE</i> ($\mu\text{g/L}$)	<i>ETBE</i> ($\mu\text{g/L}$)	<i>TAME</i> ($\mu\text{g/L}$)	<i>TOC</i> (ft MSL)	<i>Depth to</i> <i>Water</i> (ft TOC)	<i>GW</i> <i>Elevation</i> (ft MSL)
MW-6	03/01/2004	<1,000	<10	<10	<10	<20	---	2,500	---	---	---	---	18.05	9.84	8.21
MW-6	06/15/2004	<1,000	<10	<10	<10	<20	---	2,800	---	---	---	---	18.05	14.82	3.23
MW-6	09/16/2004	<1,000	<10	<10	<10	<20	---	830	610	<40	<40	<40	18.05	14.20	3.85
MW-6	12/29/2004	<200	<2.0	<2.0	<2.0	<4.0	---	530	---	---	---	---	18.05	14.78	3.27
MW-6	02/28/2005	---	---	---	---	---	---	---	---	---	---	---	18.05	9.58	8.47
MW-6	03/23/2005	290 f	<2.0	<2.0	<2.0	<4.0	---	590	---	---	---	---	18.05	14.22	3.83
MW-6	05/18/2005	390	8.7	<0.50	0.93	9.0	---	68	---	---	---	---	18.05	9.79	8.26
MW-6	08/16/2005	---	---	---	---	---	---	34	---	---	---	---	18.05	10.64	7.41
MW-6	09/15/2005	<500	<5.0	<5.0	<5.0	<10	---	45	21,000 e	<20	<20	<20	18.05	11.83	6.22
MW-6	10/26/2005	---	---	---	---	---	---	31	---	---	---	---	18.05	11.31	6.74
MW-6	12/13/2005	982	<0.500	1.36 h	<0.500	<0.500	---	35.1	11,300 e	---	---	---	18.05	11.22	6.83
MW-6	03/08/2006	2,110	<0.500	<0.500	<0.500	<0.500	---	29.6	21,800	---	---	---	18.05	9.50	8.55
MW-6	06/27/2006	510	<0.50	<0.50	<0.50	<0.50	---	94	<20	---	---	---	18.05	9.84	8.21
MW-6	09/25/2006	730 n	<25	<25	<25	<50	---	<50	16,000	<50	<50	<50	18.05	11.08	6.97
MW-6	12/21/2006	890	<0.50	<0.50	<0.50	<1.0	---	30	33,000	---	---	---	18.05	11.12	6.93
MW-6	03/20/2007	<1,200 o	<12	<12	<12	<25	---	30	33,000	---	---	---	18.05	10.66	7.39
MW-6	06/18/2007	400	<0.50	<1.0	<1.0	<1.0	---	34	82,000	---	---	---	18.05	11.30	6.75
MW-6	08/30/2007	650 r	<50	<100	<100	<100	---	38 p	32,000	<200	<200	<200	18.05	11.81	6.24
MW-6	12/28/2007	170 r	<25	<50	<50	<50	---	28 p	36,000	---	---	---	18.05	11.97	6.08
MW-6	03/26/2008	1,300	<5.0	<10	<10	<10	---	26	36,000	---	---	---	18.05	10.83	7.22
MW-6	05/29/2008	2,500	<25	<50	<50	<50	---	<50	41,000	---	---	---	18.05	11.80	6.25
MW-6	09/25/2008	4,100	<25	<50	<50	<50	---	<50	44,000	<100	<100	<100	18.05	12.23	5.82
MW-6	12/16/2008	1,900	<10	<20	<20	<20	---	<20	28,000	---	---	---	18.05	12.40	5.65
MW-6	02/26/2009	1,500	<10	<20	<20	<20	---	<20	27,000	---	---	---	18.05	11.05	7.00
MW-6	05/26/2009	1,500	<10	<20	<20	<20	---	<20	29,000	---	---	---	18.05	11.52	6.53
MW-6	09/02/2009	1,800	<10	<20	<20	<20	---	<20	35,000	<40	<40	<40	18.05	12.25	5.80
MW-6	03/10/2010	<1,000	<10	<20	<20	<20	---	<20	25,000	---	---	---	18.05	10.94	7.11
MW-6	08/31/2010	610	<5.0	<10	<10	<10	---	15	20,000	<20	<20	<20	18.05	11.90	6.15

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 (µg/L)	8260 (µg/L)							
MW-6	12/21/2010	<1,000	<10	<20	<20	<20	--	<20	19,000	--	--	--	18.05	11.01	7.04
MW-6	03/08/2011	<1,200	<12	<12	<12	<25	--	<25	8,200	--	--	--	18.05	10.59	7.46
MW-6	06/01/2011	<500	<5.0	<5.0	<5.0	<10	--	<10	11,000	--	--	--	18.05	10.65	7.40
MW-6	09/19/2011	1,000 n	<10	<10	<10	<20	--	<20	16,000	<20	<20	<20	18.05	11.56	6.49
MW-7	03/28/2003	Well inaccessible		--	--	--	--	--	--	--	--	--	19.16	--	--
MW-7	04/07/2003	--	--	--	--	--	--	--	--	--	--	--	19.16	13.85	5.31
MW-7	04/15/2003	6,000	<100	<100	<100	<200	--	19,000	--	--	--	--	19.16	13.95	5.21
MW-7	06/13/2003	<5,000	<50	<50	<50	<100	--	5,700	--	--	--	--	19.16	13.92	5.24
MW-7	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	--	110	--	--	--	--	19.13	13.85	5.28
MW-7	11/24/2003	<50	<0.50	0.59	<0.50	1.7	--	7.6	--	--	--	--	19.13	13.99	5.14
MW-7	03/01/2004	67 b	<0.50	<0.50	<0.50	<1.0	--	120	--	--	--	--	19.13	10.85	8.28
MW-7	06/15/2004	120 b	<0.50	<0.50	<0.50	<1.0	--	89	--	--	--	--	19.13	13.27	5.86
MW-7	09/16/2004	<500	<5.0	<5.0	<5.0	<10	--	130	4,700	<20	<20	<20	19.13	12.83	6.30
MW-7	12/29/2004	<500	<5.0	<5.0	<5.0	<10	--	130	--	--	--	--	19.13	11.82	7.31
MW-7	02/28/2005	--	--	--	--	--	--	--	--	--	--	--	19.13	10.59	8.54
MW-7	03/23/2005	<1,000	<10	<10	<10	<20	--	16	--	--	--	--	19.13	11.16	7.97
MW-7	05/18/2005	67 g	<0.50	<0.50	<0.50	<1.0	--	12	--	--	--	--	19.13	10.42	8.71
MW-7	08/16/2005	--	--	--	--	--	--	--	--	--	--	--	19.13	11.52	7.61
MW-7	09/15/2005	<500	<5.0	<5.0	<5.0	<10	--	75	16,000	<20	<20	<20	19.13	11.95	7.18
MW-7	10/26/2005	--	--	--	--	--	--	--	--	--	--	--	19.13	12.23	6.90
MW-7	12/13/2005	1,210	<0.500	<0.500	<0.500	<0.500	--	19.1	14,600 e	--	--	--	19.13	12.15	6.98
MW-7	03/08/2006	989	<0.500	<0.500	<0.500	<0.500	--	7.29	14,000	--	--	--	19.13	10.70	8.43
MW-7	06/27/2006	370	<0.50	<0.50	<0.50	<0.50	--	16	20,000 a	--	--	--	19.13	10.77	8.36
MW-7	09/25/2006	840 n	<10	<10	<10	<20	--	<20	22,000	<20	<20	<20	19.13	12.04	7.09
MW-7	12/21/2006	740	<0.50	<0.50	<0.50	<1.0	--	7.5	27,000	--	--	--	19.13	12.18	6.95
MW-7	03/20/2007	460 n	<50	<50	<50	<100	--	<100	24,000	--	--	--	19.13	11.67	7.46
MW-7	06/18/2007	310 q	<5.0	<10	<10	<10	--	2.7 p	32,000	--	--	--	19.13	12.31	6.82

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 (µg/L)	8260 (µg/L)							
MW-7	08/30/2007	560 r	<25	<50	<50	<50	---	<50	28,000	<100	<100	<100	19.13	12.76	6.37
MW-7	12/28/2007	74 r	<25	<50	<50	<50	---	<50	26,000	---	---	---	19.13	12.85	6.28
MW-7	03/26/2008	1,400	<5.0	<10	<10	<10	---	<10	32,000	---	---	---	19.13	12.04	7.09
MW-7	05/29/2008	3,000	<25	<50	<50	<50	---	<50	44,000	---	---	---	19.13	12.80	6.33
MW-7	09/25/2008	3,600	<25	<50	<50	<50	---	<50	36,000	<100	<100	<100	19.13	13.14	5.99
MW-7	12/16/2008	1,700	<10	<20	<20	<20	---	<20	29,000	---	---	---	19.13	13.34	5.79
MW-7	02/26/2009	1,300	<10	<20	<20	<20	---	<20	19,000	---	---	---	19.13	12.16	6.97
MW-7	05/26/2009	1,600	<10	<20	<20	<20	---	<20	32,000	---	---	---	19.13	12.56	6.57
MW-7	09/02/2009	1,800	<10	<20	<20	<20	---	<20	33,000	<40	<40	<40	19.13	13.44	5.69
MW-7	03/10/2010	<1,000	<10	<20	<20	<20	---	<20	25,000	---	---	---	19.13	11.62	7.51
MW-7	08/31/2010	<1,000	<10	<20	<20	<20	---	<20	27,000	<40	<40	<40	19.13	12.90	6.23
MW-7	12/21/2010	<2,500	<25	<50	<50	<50	---	<50	22,000	---	---	---	19.13	12.11	7.02
MW-7	03/08/2011	<2,000	<20	<20	<20	<40	---	<40	9,600	---	---	---	19.13	11.51	7.62
MW-7	06/01/2011	620	<20	<20	<20	<40	---	<40	35,000	---	---	---	19.13	11.56	7.57
MW-7	09/19/2011	2,700	<25	<25	<25	<50	---	<50	48,000	<50	<50	<50	19.13	12.58	6.55
MW-8	03/28/2003	Well inaccessible	---	---	---	---	---	---	---	---	---	---	18.72	---	---
MW-8	04/07/2003	---	---	---	---	---	---	---	---	---	---	---	18.72	14.13	4.59
MW-8	04/15/2003	890	29	22	15	71	---	430	---	---	---	---	18.72	14.10	4.62
MW-8	06/13/2003	---	---	---	---	---	---	---	---	---	---	---	18.72	13.94	4.78
MW-8	09/26/2003	<250	55	51	33	140	---	330	---	---	---	---	18.71	14.21	4.50
MW-8	11/24/2003	<5,000	<50	<50	<50	<100	---	5,600	---	---	---	---	18.71	14.16	4.55
MW-8	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	---	12	---	---	---	---	18.71	10.34	8.37
MW-8	06/15/2004	2,800	170	240	140	560	---	440	---	---	---	---	18.71	13.88	4.83
MW-8	09/16/2004	2,500	180	200	120	490	---	480	260	<10	<10	<10	18.71	13.92	4.79
MW-8	12/29/2004	4,400	360	600	280	1,400	---	690	---	---	---	---	18.71	13.44	5.27
MW-8	02/28/2005	---	---	---	---	---	---	---	---	---	---	---	18.71	10.15	8.56
MW-8	03/23/2005	2,800	120	190	110	420	---	300	---	---	---	---	18.71	13.79	4.92

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE	MTBE	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 (µg/L)	8260 (µg/L)							
MW-8	05/18/2005	250	34	3.4	6.6	27	---	110	---	---	---	---	18.71	10.85	7.86
MW-8	08/16/2005	---	---	---	---	---	---	---	---	---	---	---	18.71	10.95	7.76
MW-8	09/15/2005	460 f	54	21	24	92	---	250	130	<4.0	<4.0	<4.0	18.71	11.38	7.33
MW-8	10/26/2005	---	---	---	---	---	---	---	---	---	---	---	18.71	11.75	6.96
MW-8	12/13/2005	1,180	49.6	4.89 h	15.2	76.0	---	320 a	1,870	---	---	---	18.71	11.80	6.91
MW-8	03/08/2006	1,040	48.0	1.82	5.07	19.9	---	271	190	---	---	---	18.71	10.50	8.21
MW-8	06/27/2006	730	80	<2.5	8.6	28	---	360	500 a	---	---	---	18.71	10.00	8.71
MW-8	09/25/2006	830	120	4.1	3.0	15	---	260	420	3.7	<2.5	<2.5	18.71	11.42	7.29
MW-8	12/21/2006	1,200	140	3.8	2.3	12	---	190	1,100	---	---	---	18.71	12.08	6.63
MW-8	03/20/2007	660	100	2.3	1.3	2.9	---	280	660	---	---	---	18.71	11.56	7.15
MW-8	06/18/2007	1,200	270	4.9	2.0	6.21	---	230	1,300	---	---	---	18.71	11.72	6.99
MW-8	08/30/2007	1,100 r	160	3.8	2.3	7.64 p	---	150	840	5.2	<2.0	<2.0	18.71	12.22	6.49
MW-8	12/28/2007	610 r	89	1.8	0.58 p	2.33 p	---	140	820	---	---	---	18.71	12.26	6.45
MW-8	03/26/2008	240	19	<1.0	<1.0	<1.0	---	58	390	---	---	---	18.71	11.45	7.26
MW-8	05/29/2008	290	25	<1.0	<1.0	<1.0	---	99	800	---	---	---	18.71	12.13	6.58
MW-8	09/25/2008	500	32	<1.0	<1.0	1.3	---	63	930	2.5	<2.0	<2.0	18.71	15.31	3.40
MW-8	12/16/2008	550	71	1.4	<1.0	1.8	---	46	1,400	---	---	---	18.71	12.92	5.79
MW-8	02/26/2009	120	0.97	<1.0	<1.0	<1.0	---	4.9	62	---	---	---	18.71	11.50	7.21
MW-8	05/26/2009	200	18	<1.0	<1.0	<1.0	---	39	710	---	---	---	18.71	11.91	6.80
MW-8	09/02/2009	480	55	1.6	<1.0	3.4	---	48	1,200	2.6	<2.0	<2.0	18.71	12.90	5.81
MW-8	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.6	14	---	---	---	18.71	11.02	7.69
MW-8	08/31/2010	650	110	11	6.5	25	---	48	1,200	2.2	<2.0	<2.0	18.71	12.20	6.51
MW-8	03/08/2011	97	<0.50	<0.50	<0.50	<1.0	---	3.7	23	---	---	---	18.71	10.80	7.91
MW-8	09/19/2011	1,200	370 s	13 s	3.3 s	30 s	---	53 s	2,500 s	<5.0 s	<5.0 s	<5.0 s	18.71	11.94	6.77
MW-9	03/28/2003	---	---	---	---	---	---	---	---	---	---	---	18.78	11.19	7.59
MW-9	04/15/2003	420	<2.5	<2.5	<2.5	6.3	---	37	---	---	---	---	18.78	11.24	7.54
MW-9	06/13/2003	290 b	<0.50	<0.50	<0.50	2.6	---	34	---	---	---	---	18.78	11.39	7.39

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 (µg/L)	8260 (µg/L)							
MW-9	09/26/2003	540 b	<0.50	<0.50	<0.50	9.2	---	21	---	---	---	---	18.78	12.12	6.66
MW-9	11/24/2003	650 d	<0.50	<0.50	<0.50	6.3	---	14	---	---	---	---	18.78	12.30	6.48
MW-9	03/01/2004	230 d	<0.50	<0.50	<0.50	1.7	---	7.7	---	---	---	---	18.78	10.45	8.33
MW-9	06/15/2004	280	<0.50	<0.50	<0.50	1.9	---	8.3	---	---	---	---	18.78	11.88	6.90
MW-9	09/16/2004	260	<0.50	<0.50	<0.50	1.5	---	3.9	<5.0	<2.0	<2.0	<2.0	18.78	12.26	6.52
MW-9	12/29/2004	220	<0.50	<0.50	<0.50	1.2	---	3.5	---	---	---	---	18.78	11.76	7.02
MW-9	02/28/2005	140 g	<0.50	<0.50	<0.50	<1.0	---	1.5	---	---	---	---	18.78	10.21	8.57
MW-9	03/23/2005	---	---	---	---	---	---	---	---	---	---	---	18.78	10.14	8.64
MW-9	05/18/2005	210 g	<0.50	<0.50	<0.50	<1.0	---	2.8	---	---	---	---	18.78	10.21	8.57
MW-9	08/16/2005	---	---	---	---	---	---	---	---	---	---	---	18.78	11.25	7.53
MW-9	09/15/2005	230 g	<0.50	<0.50	<0.50	1.1	---	2.6	<5.0	<2.0	<2.0	<2.0	18.78	11.75	7.03
MW-9	10/26/2005	---	---	---	---	---	---	---	---	---	---	---	18.78	11.97	6.81
MW-9	12/13/2005	504	<0.500	<0.500	<0.500	2.53	---	2.88	---	---	---	---	18.78	11.92	6.86
MW-9	03/08/2006	205	<0.500	<0.500	<0.500	<0.500	---	1.45	---	---	---	---	18.78	10.05	8.73
MW-9	06/27/2006	260	<0.50	<0.50	<0.50	<0.50	---	1.9	---	---	---	---	18.78	10.64	8.14
MW-9	09/25/2006	160	<0.50	<0.50	<0.50	<1.0	---	1.6	<10	<1.0	<1.0	<1.0	18.78	11.78	7.00
MW-9	12/21/2006	300	<0.50	<0.50	<0.50	<1.0	---	1.4	---	---	---	---	18.78	11.86	6.92
MW-9	03/20/2007	150 n	<0.50	<0.50	<0.50	<1.0	---	1.2	---	---	---	---	18.78	11.34	7.44
MW-9	06/18/2007	81	0.18 p	<1.0	<1.0	0.27 p	---	1.2	---	---	---	---	18.78	12.01	6.77
MW-9	08/30/2007	52 r	<0.50	<1.0	<1.0	0.31 p	---	1.6	<10	<2.0	<2.0	<2.0	18.78	12.49	6.29
MW-9	12/28/2007	61 r	<0.50	<1.0	<1.0	0.27 p	---	1.9	---	---	---	---	18.78	12.84	5.94
MW-9	03/26/2008	89	<0.50	<1.0	<1.0	<1.0	---	1.6	---	---	---	---	18.78	12.30	6.48
MW-9	05/29/2008	130	<0.50	<1.0	<1.0	<1.0	---	7.4	---	---	---	---	18.78	12.61	6.17
MW-9	09/25/2008	63	<0.50	<1.0	<1.0	<1.0	---	17	<10	<2.0	<2.0	<2.0	18.78	12.92	5.86
MW-9	12/16/2008	74	<0.50	<1.0	<1.0	<1.0	---	13	---	---	---	---	18.78	13.03	5.75
MW-9	02/26/2009	81	<0.50	<1.0	<1.0	<1.0	---	14	---	---	---	---	18.78	11.94	6.84
MW-9	05/26/2009	140	<0.50	<1.0	<1.0	<1.0	---	5.8	---	---	---	---	18.78	12.47	6.31
MW-9	09/02/2009	54	<0.50	<1.0	<1.0	<1.0	---	16	<10	<2.0	<2.0	<2.0	18.42	13.00	5.42

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE		TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
							8020 ($\mu\text{g/L}$)	8260 ($\mu\text{g/L}$)							
MW-9	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	---	1.4	---	---	---	---	18.42	11.05	7.37
MW-9	08/31/2010	<50	<0.50	<1.0	<1.0	<1.0	---	12	<10	<2.0	<2.0	<2.0	18.42	12.35	6.07

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by method noted

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B

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

TOC = Top of casing elevation, in feet relative to mean sea level

GW = Groundwater

$\mu\text{g/L}$ = Micrograms per liter

ft = Feet

MSL = Mean sea level

<x = Not detected at reporting limit x

--- = Not analyzed or available

a = Sample was analyzed outside the EPA recommended holding time.

b = Hydrocarbon reported does not match the laboratory standard.

c = Unable to gauge

d = Sample contains discrete peaks in addition to gasoline.

e = Estimated value. The concentration exceeded the calibration of analysis.

f = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

g = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.

h = Analyte was detected in the associated Method Blank.

m = Sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE	MTBE	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW
							8020 (µg/L)	8260 (µg/L)						Water	Elevation

n = Hydrocarbon result partly due to individual peak(s) in quantitation range.

o = Reporting limit raised due to high concentrations of non-target analytes.

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

q = 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.

r = Analyzed by the EPA method 8015B(M)

s = Sample container contained headspace

Wells MW-1, MW-2, and MW-3 surveyed December 9, 1998 by Virgil Chavez Land Surveying

Wells MW-6 through MW-9 surveyed April 10, 2003 by Virgil Chavez Land Surveying

Wells MW-2, MW-3, MW-6, MW-7, and MW-8 surveyed September 23, 2003 by Virgil Chavez Land Surveying

Well MW-9 surveyed October 20, 2009 by Virgil Chavez Land Surveying

APPENDIX A

BLAINE TECH SERVICES, INC. -
FIELD NOTES

WELL GAUGING DATA

Project # 110919-CH1 Date 9-19-11 Client Shell

Site 610 Market, Oakland

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 <u>FOO</u>	Notes
MW-1	0945	4					14.71	24.26	↓	
MW-2	0935	4					11.22	17.42		
MW-3	0930	4					11.51	18.36		
MW-4	1020	4					11.71	19.52		
MW-5	1040	4					11.50	20.00		
MW-6	0955	4					11.56	17.86		
MW-7	1010	4					12.58	17.80		
MW-8	1000	4					11.94	18.95		↓

SHELL WELL MONITORING DATA SHEET

BTS #: 110919-CH1	Site: 98995750
Sampler: C4	Date: 9-19-11
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 17.42	Depth to Water (DTW): 11.22
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]: 12.46	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible

Water: Peristaltic Extraction Pump Other _____

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing

Other: _____

4.10 (Gals.) X 3 = 12.3 Gals.

I 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
1120	73.2	6.8	1215	68	4.5	
1121	72.5	6.7	11.96	36	9.0	
1122	72.2	6.6	1219	34	13.5	

Did well dewater? Yes No Gallons actually evacuated: 13.5

Sampling Date: 9-19-11 Sampling Time: 1130 Depth to Water: 12.36

Sample I.D.: MW-2 Laboratory: Pest America Other _____

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

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

APPENDIX B

TEST AMERICA -
LABORATORY REPORTS

LABORATORY REPORT

Prepared For: Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project: 610 Market St., Oakland, CA -
Shell
610 Market St., Oakland, CA

Sampled: 06/01/11
Received: 06/02/11
Issued: 06/15/11 09:31

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IUF0183-01
IUF0183-02

CLIENT ID

MW-6
MW-7

MATRIX

Water
Water

Reviewed By:

Debby Wilson

TestAmerica Irvine

Debby Wilson For Philip Sanelle
Project Manager

Blaine Tech San Jose/CRA Shell
 1680 Rogers Avenue
 San Jose, CA 95112-1105
 Attention: Lorin King

Project ID: 610 Market St., Oakland, CA - Shell
 610 Market St., Oakland, CA
 Report Number: IUF0183

Sampled: 06/01/11
 Received: 06/02/11

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUF0183-01 (MW-6 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11F1408	500	ND	10	6/10/2011	6/11/2011	
Surrogate: Dibromofluoromethane (80-120%)				100 %				
Surrogate: Toluene-d8 (80-120%)				102 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				94 %				
Sample ID: IUF0183-02 (MW-7 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11F1408	500	620	10	6/10/2011	6/11/2011	
Surrogate: Dibromofluoromethane (80-120%)				100 %				
Surrogate: Toluene-d8 (80-120%)				101 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				92 %				

TestAmerica Irvine

Debbie Wilson For Philip Sanelle
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

Blaine Tech San Jose/CRA Shell
 1680 Rogers Avenue
 San Jose, CA 95112-1105
 Attention: Lorin King

Project ID: 610 Market St., Oakland, CA - Shell
 610 Market St., Oakland, CA
 Report Number: IUF0183

Sampled: 06/01/11
 Received: 06/02/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUF0183-01 (MW-6 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11F1408	5.0	ND	10	6/10/2011	6/11/2011	
Ethylbenzene	EPA 8260B	11F1408	5.0	ND	10	6/10/2011	6/11/2011	
Toluene	EPA 8260B	11F1408	5.0	ND	10	6/10/2011	6/11/2011	
Xylenes, Total	EPA 8260B	11F1408	10	ND	10	6/10/2011	6/11/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11F1408	10	ND	10	6/10/2011	6/11/2011	
tert-Butanol (TBA)	EPA 8260B	11F1408	100	11000	10	6/10/2011	6/11/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				94 %				
Surrogate: Dibromofluoromethane (80-120%)				100 %				
Surrogate: Toluene-d8 (80-120%)				102 %				
Sample ID: IUF0183-02 (MW-7 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11F1553	20	ND	40	6/11/2011	6/11/2011	
Ethylbenzene	EPA 8260B	11F1553	20	ND	40	6/11/2011	6/11/2011	
Toluene	EPA 8260B	11F1553	20	ND	40	6/11/2011	6/11/2011	
Xylenes, Total	EPA 8260B	11F1553	40	ND	40	6/11/2011	6/11/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11F1553	40	ND	40	6/11/2011	6/11/2011	
tert-Butanol (TBA)	EPA 8260B	11F1553	400	35000	40	6/11/2011	6/11/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				94 %				
Surrogate: Dibromofluoromethane (80-120%)				97 %				
Surrogate: Toluene-d8 (80-120%)				101 %				

TestAmerica Irvine

Debby Wilson For Philip Sanelle
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

Blaine Tech San Jose/CRA Shell 1680 Rogers Avenue San Jose, CA 95112-1105 Attention: Lorin King	Project ID: 610 Market St., Oakland, CA - Shell 610 Market St., Oakland, CA Report Number: IUF0183	Sampled: 06/01/11 Received: 06/02/11
--	--	---

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11F1408 Extracted: 06/10/11										
Blank Analyzed: 06/10/2011 (11F1408-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	24.7		ug/l	25.0		99	80-120			
Surrogate: Toluene-d8	25.7		ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	23.7		ug/l	25.0		95	80-120			
LCS Analyzed: 06/10/2011 (11F1408-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	492	50	ug/l	500		98	55-130			
Surrogate: Dibromofluoromethane	24.1		ug/l	25.0		96	80-120			
Surrogate: Toluene-d8	25.4		ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	23.6		ug/l	25.0		94	80-120			
Matrix Spike Analyzed: 06/10/2011 (11F1408-MS1) Source: IUF0190-07										
Volatile Fuel Hydrocarbons (C4-C12)	2500	50	ug/l	1720	2380	7	50-145			MHA
Surrogate: Dibromofluoromethane	23.0		ug/l	25.0		92	80-120			
Surrogate: Toluene-d8	25.4		ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	24.5		ug/l	25.0		98	80-120			
Matrix Spike Dup Analyzed: 06/10/2011 (11F1408-MSD1) Source: IUF0190-07										
Volatile Fuel Hydrocarbons (C4-C12)	3020	50	ug/l	1720	2380	37	50-145	19	20	MHA
Surrogate: Dibromofluoromethane	22.8		ug/l	25.0		91	80-120			
Surrogate: Toluene-d8	25.5		ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	24.7		ug/l	25.0		99	80-120			

TestAmerica Irvine

Debby Wilson For Philip Sanelle
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 610 Market St., Oakland, CA - Shell
610 Market St., Oakland, CA
Report Number: IUF0183

Sampled: 06/01/11
Received: 06/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11F1408 Extracted: 06/10/11										
Blank Analyzed: 06/10/2011 (11F1408-BLK1)										
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
o-Xylene	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
tert-Butanol (TBA)	ND	10	ug/l							
Surrogate: 4-Bromofluorobenzene	23.7		ug/l	25.0		95	80-120			
Surrogate: Dibromofluoromethane	24.7		ug/l	25.0		99	80-120			
Surrogate: Toluene-d8	25.7		ug/l	25.0		103	80-120			
LCS Analyzed: 06/10/2011 (11F1408-BS1)										
Benzene	20.5	0.50	ug/l	25.0		82	70-120			
Ethylbenzene	23.0	0.50	ug/l	25.0		92	75-125			
Toluene	21.2	0.50	ug/l	25.0		85	70-120			
m,p-Xylenes	45.9	1.0	ug/l	50.0		92	75-125			
o-Xylene	22.6	0.50	ug/l	25.0		91	75-125			
Xylenes, Total	68.5	1.0	ug/l	75.0		91	70-125			
Methyl-tert-butyl Ether (MTBE)	20.6	1.0	ug/l	25.0		82	60-135			
tert-Butanol (TBA)	120	10	ug/l	125		96	70-135			
Surrogate: 4-Bromofluorobenzene	24.5		ug/l	25.0		98	80-120			
Surrogate: Dibromofluoromethane	23.8		ug/l	25.0		95	80-120			
Surrogate: Toluene-d8	25.4		ug/l	25.0		102	80-120			
Matrix Spike Analyzed: 06/10/2011 (11F1408-MS1)										
Source: IUF0190-07										
Benzene	23.5	0.50	ug/l	25.0	2.03	86	65-125			
Ethylbenzene	75.5	0.50	ug/l	25.0	59.6	64	65-130			M2
Toluene	23.2	0.50	ug/l	25.0	0.510	91	70-125			
m,p-Xylenes	81.4	1.0	ug/l	50.0	37.7	87	65-130			
o-Xylene	30.5	0.50	ug/l	25.0	7.02	94	65-125			
Xylenes, Total	112	1.0	ug/l	75.0	44.7	89	60-130			
Methyl-tert-butyl Ether (MTBE)	23.4	1.0	ug/l	25.0	ND	94	55-145			
tert-Butanol (TBA)	123	10	ug/l	125	ND	98	65-140			
Surrogate: 4-Bromofluorobenzene	24.5		ug/l	25.0		98	80-120			
Surrogate: Dibromofluoromethane	23.0		ug/l	25.0		92	80-120			
Surrogate: Toluene-d8	25.4		ug/l	25.0		102	80-120			

TestAmerica Irvine

Debbie Wilson For Philip Sanelle
Project Manager

Blaine Tech San Jose/CRA Shell
 1680 Rogers Avenue
 San Jose, CA 95112-1105
 Attention: Lorin King

Project ID: 610 Market St., Oakland, CA - Shell
 610 Market St., Oakland, CA
 Report Number: IUF0183

Sampled: 06/01/11
 Received: 06/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11F1408 Extracted: 06/10/11										
Matrix Spike Dup Analyzed: 06/10/2011 (11F1408-MSD1)					Source: IUF0190-07					
Benzene	23.3	0.50	ug/l	25.0	2.03	85	65-125	0.9	20	
Ethylbenzene	74.0	0.50	ug/l	25.0	59.6	58	65-130	2	20	M2
Toluene	23.2	0.50	ug/l	25.0	0.510	91	70-125	0.2	20	
m,p-Xylenes	80.8	1.0	ug/l	50.0	37.7	86	65-130	0.7	25	
o-Xylene	30.7	0.50	ug/l	25.0	7.02	95	65-125	0.7	20	
Xylenes, Total	111	1.0	ug/l	75.0	44.7	89	60-130	0.3	20	
Methyl-tert-butyl Ether (MTBE)	24.4	1.0	ug/l	25.0	ND	98	55-145	4	25	
tert-Butanol (TBA)	118	10	ug/l	125	ND	94	65-140	4	25	
Surrogate: 4-Bromofluorobenzene	24.7		ug/l	25.0		99	80-120			
Surrogate: Dibromofluoromethane	22.8		ug/l	25.0		91	80-120			
Surrogate: Toluene-d8	25.5		ug/l	25.0		102	80-120			

Batch: 11F1553 Extracted: 06/11/11

Blank Analyzed: 06/11/2011 (11F1553-BLK1)

Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
o-Xylene	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
tert-Butanol (TBA)	ND	10	ug/l							
Surrogate: 4-Bromofluorobenzene	23.5		ug/l	25.0		94	80-120			
Surrogate: Dibromofluoromethane	24.4		ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	80-120			

TestAmerica Irvine

Debby Wilson For Philip Sanelle
 Project Manager

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 610 Market St., Oakland, CA - Shell
610 Market St., Oakland, CA
Report Number: IUF0183

Sampled: 06/01/11
Received: 06/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11F1553 Extracted: 06/11/11										
LCS Analyzed: 06/11/2011 (11F1553-BS1)										
Benzene	22.4	0.50	ug/l	25.0		90	70-120			
Ethylbenzene	25.1	0.50	ug/l	25.0		100	75-125			
Toluene	23.0	0.50	ug/l	25.0		92	70-120			
m,p-Xylenes	50.0	1.0	ug/l	50.0		100	75-125			
o-Xylene	24.4	0.50	ug/l	25.0		98	75-125			
Xylenes, Total	74.4	1.0	ug/l	75.0		99	70-125			
Methyl-tert-butyl Ether (MTBE)	22.4	1.0	ug/l	25.0		90	60-135			
tert-Butanol (TBA)	128	10	ug/l	125		103	70-135			
Surrogate: 4-Bromofluorobenzene	24.3		ug/l	25.0		97	80-120			
Surrogate: Dibromofluoromethane	23.0		ug/l	25.0		92	80-120			
Surrogate: Toluene-d8	25.4		ug/l	25.0		101	80-120			
Matrix Spike Analyzed: 06/11/2011 (11F1553-MS1)										
Source: IUF0185-01										
Benzene	21.6	0.50	ug/l	25.0	ND	87	65-125			
Ethylbenzene	23.3	0.50	ug/l	25.0	ND	93	65-130			
Toluene	22.5	0.50	ug/l	25.0	ND	90	70-125			
m,p-Xylenes	45.5	1.0	ug/l	50.0	ND	91	65-130			
o-Xylene	22.5	0.50	ug/l	25.0	ND	90	65-125			
Xylenes, Total	68.0	1.0	ug/l	75.0	ND	91	60-130			
Methyl-tert-butyl Ether (MTBE)	30.6	1.0	ug/l	25.0	6.74	96	55-145			
tert-Butanol (TBA)	132	10	ug/l	125	14.3	94	65-140			
Surrogate: 4-Bromofluorobenzene	23.8		ug/l	25.0		95	80-120			
Surrogate: Dibromofluoromethane	23.5		ug/l	25.0		94	80-120			
Surrogate: Toluene-d8	25.5		ug/l	25.0		102	80-120			
Matrix Spike Dup Analyzed: 06/11/2011 (11F1553-MSD1)										
Source: IUF0185-01										
Benzene	21.4	0.50	ug/l	25.0	ND	85	65-125	1	20	
Ethylbenzene	24.0	0.50	ug/l	25.0	ND	96	65-130	3	20	
Toluene	22.2	0.50	ug/l	25.0	ND	89	70-125	1	20	
m,p-Xylenes	47.0	1.0	ug/l	50.0	ND	94	65-130	3	25	
o-Xylene	23.5	0.50	ug/l	25.0	ND	94	65-125	4	20	
Xylenes, Total	70.5	1.0	ug/l	75.0	ND	94	60-130	4	20	
Methyl-tert-butyl Ether (MTBE)	30.8	1.0	ug/l	25.0	6.74	96	55-145	0.5	25	
tert-Butanol (TBA)	133	10	ug/l	125	14.3	95	65-140	0.9	25	
Surrogate: 4-Bromofluorobenzene	24.6		ug/l	25.0		99	80-120			
Surrogate: Dibromofluoromethane	23.4		ug/l	25.0		94	80-120			
Surrogate: Toluene-d8	25.1		ug/l	25.0		101	80-120			

TestAmerica Irvine

Debby Wilson For Philip Sanelle
Project Manager

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 610 Market St., Oakland, CA - Shell
610 Market St., Oakland, CA
Report Number: IUF0183

Sampled: 06/01/11
Received: 06/02/11

DATA QUALIFIERS AND DEFINITIONS

- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MHA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD.
The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For Volatile Fuel Hydrocarbons (C4-C12):

Volatile Fuel Hydrocarbons (C4-C12) are quantitated against a gasoline standard. Quantitation begins immediately before TBA-d9.

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Project Manager

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IUF0183 <Page 8 of 9>

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 610 Market St., Oakland, CA - Shell
610 Market St., Oakland, CA
Report Number: IUF0183

Sampled: 06/01/11
Received: 06/02/11

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 8260B	Water	X	X
TPH by GC/MS	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Debby Wilson For Philip Sanelle
Project Manager

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LAB (LOCATION)

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



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

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

Print/Bill To Contact Name: Peter Schaefer 240594

INCIDENT # (ENV SERVICES) 9 8 9 9 5 7 5 0

PO # _____ SAP # _____

4 0 - 4 0 3 4 9 7 3

DATE: 6/1/11
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

ADDRESS: 1680 Rogers Avenue, San Jose, CA

PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King

TELEPHONE: 310-995-4455 x 108 FAX: 310-637-5802 E-MAIL: lking@blainetech.com

SITE ADDRESS: Street and City: 610 Market St, Oakland

State: CA GLOBAL ID NO.: T0800102121

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO.: 510-420-3343 E-MAIL: shelledt@craworld.com

CONSULTANT PROJECT NO.: 110601-BPZ

SAMPLER NAME(S) (Print): Ben Pavell

LAB USE ONLY: JWF 0183

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:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:

Email invoice and copy of final report to Shell.Lab.Billing@craworld.com

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 RECEIPT °C	Container PID Readings or Laboratory Notes				
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH - GRO, Purgeable (8260B)	TPH - DRO, Extractable (8015M)	TPHg (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)			Ethanol (8260B)	Methanol (8015M)		
		MW-6	6/1/11		1225	W	X						3	X													
MW-7	6/1/11	1300	W	X					3	X																	

Relinquished by: (Signature) <i>B. Dell</i>	Received by: (Signature) <i>B. Dell (sample custodian)</i>	Date: 6/1/11	Time: 1620
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 6-1-11	Time: 1650
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 6-1-11	Time: 1810

Fedex 10:02
6/2

[Signature]

6/2/11 10:02

LABORATORY REPORT

Prepared For: Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project: 610 Market St., Oakland, CA

Sampled: 09/19/11
Received: 09/24/11
Issued: 10/10/11 10:57

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IUI2278-01	MW-1	Water
IUI2278-02	MW-2	Water
IUI2278-03	MW-3	Water
IUI2278-04	MW-4	Water
IUI2278-05	MW-5	Water
IUI2278-06	MW-6	Water
IUI2278-07	MW-7	Water
IUI2278-08	MW-8	Water

Reviewed By:



TestAmerica Irvine

Philip Sanelle
Project Manager

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 610 Market St., Oakland, CA

Report Number: IUI2278

Sampled: 09/19/11
Received: 09/24/11

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUI2278-01 (MW-1 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11I3101	50	290	1	9/27/2011	9/27/2011	
Surrogate: Dibromofluoromethane (80-120%)				108 %				
Surrogate: Toluene-d8 (80-120%)				108 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				108 %				
Sample ID: IUI2278-02 (MW-2 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11I3101	250	ND	5	9/27/2011	9/27/2011	
Surrogate: Dibromofluoromethane (80-120%)				107 %				
Surrogate: Toluene-d8 (80-120%)				105 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				105 %				
Sample ID: IUI2278-03 (MW-3 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11I3101	50	100	1	9/27/2011	9/27/2011	
Surrogate: Dibromofluoromethane (80-120%)				106 %				
Surrogate: Toluene-d8 (80-120%)				106 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				108 %				
Sample ID: IUI2278-04 (MW-4 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11I2966	50	ND	1	9/26/2011	9/27/2011	
Surrogate: Dibromofluoromethane (80-120%)				94 %				
Surrogate: Toluene-d8 (80-120%)				104 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				95 %				
Sample ID: IUI2278-05 (MW-5 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11I2966	50	ND	1	9/26/2011	9/27/2011	
Surrogate: Dibromofluoromethane (80-120%)				95 %				
Surrogate: Toluene-d8 (80-120%)				101 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				97 %				
Sample ID: IUI2278-06 (MW-6 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11I2966	1000	1000	20	9/26/2011	9/27/2011	QP1
Surrogate: Dibromofluoromethane (80-120%)				97 %				
Surrogate: Toluene-d8 (80-120%)				101 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				98 %				

TestAmerica Irvine

Philip Sanelle
Project Manager

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IUI2278 <Page 2 of 15>

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 610 Market St., Oakland, CA

Report Number: IUI2278

Sampled: 09/19/11
Received: 09/24/11

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUI2278-07 (MW-7 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11I2966	2500	2700	50	9/26/2011	9/27/2011	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				98 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				101 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				97 %				
Sample ID: IUI2278-08 (MW-8 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11I3101	250	1200	5	9/27/2011	9/27/2011	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				108 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				108 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				108 %				

TestAmerica Irvine

Philip Sanelle
Project Manager

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IUI2278 <Page 3 of 15>

Blaine Tech San Jose/CRA Shell 1680 Rogers Avenue San Jose, CA 95112-1105 Attention: Lorin King	Project ID: 610 Market St., Oakland, CA Report Number: IUI2278	Sampled: 09/19/11 Received: 09/24/11
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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUI2278-01 (MW-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11I2966	0.50	46	1	9/26/2011	9/27/2011	
Ethylbenzene	EPA 8260B	11I2966	0.50	0.60	1	9/26/2011	9/27/2011	
Toluene	EPA 8260B	11I2966	0.50	1.4	1	9/26/2011	9/27/2011	
Xylenes, Total	EPA 8260B	11I2966	1.0	14	1	9/26/2011	9/27/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I2966	1.0	45	1	9/26/2011	9/27/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11I2966	1.0	1.8	1	9/26/2011	9/27/2011	
tert-Butanol (TBA)	EPA 8260B	11I2966	10	ND	1	9/26/2011	9/27/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				101 %				
Surrogate: Dibromofluoromethane (80-120%)				100 %				
Surrogate: Toluene-d8 (80-120%)				104 %				
Sample ID: IUI2278-02 (MW-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11I3425	5.0	ND	10	9/29/2011	9/29/2011	P-HS
Ethylbenzene	EPA 8260B	11I3425	5.0	ND	10	9/29/2011	9/29/2011	
Toluene	EPA 8260B	11I3425	5.0	ND	10	9/29/2011	9/29/2011	
Xylenes, Total	EPA 8260B	11I3425	10	ND	10	9/29/2011	9/29/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11I3425	10	ND	10	9/29/2011	9/29/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11I3425	10	ND	10	9/29/2011	9/29/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I3425	10	15	10	9/29/2011	9/29/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11I3425	10	ND	10	9/29/2011	9/29/2011	
tert-Butanol (TBA)	EPA 8260B	11I3425	100	5700	10	9/29/2011	9/29/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				107 %				
Surrogate: Dibromofluoromethane (80-120%)				105 %				
Surrogate: Toluene-d8 (80-120%)				106 %				

TestAmerica Irvine

Philip Sanelle
Project Manager

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Blaine Tech San Jose/CRA Shell
 1680 Rogers Avenue
 San Jose, CA 95112-1105
 Attention: Lorin King

Project ID: 610 Market St., Oakland, CA

Report Number: IUI2278

Sampled: 09/19/11
 Received: 09/24/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUI2278-03 (MW-3 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11I2966	0.50	ND	1	9/26/2011	9/27/2011	
Ethylbenzene	EPA 8260B	11I2966	0.50	ND	1	9/26/2011	9/27/2011	
Toluene	EPA 8260B	11I2966	0.50	ND	1	9/26/2011	9/27/2011	
Xylenes, Total	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I2966	1.0	6.4	1	9/26/2011	9/27/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
tert-Butanol (TBA)	EPA 8260B	11I2966	10	490	1	9/26/2011	9/27/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				95 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				93 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				101 %				
Sample ID: IUI2278-04 (MW-4 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11I2966	0.50	ND	1	9/26/2011	9/27/2011	
Ethylbenzene	EPA 8260B	11I2966	0.50	ND	1	9/26/2011	9/27/2011	
Toluene	EPA 8260B	11I2966	0.50	ND	1	9/26/2011	9/27/2011	
Xylenes, Total	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
tert-Butanol (TBA)	EPA 8260B	11I2966	10	ND	1	9/26/2011	9/27/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				95 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				94 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				104 %				

TestAmerica Irvine

Philip Sanelle
 Project Manager

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 610 Market St., Oakland, CA

Report Number: IUI2278

Sampled: 09/19/11
Received: 09/24/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUI2278-05 (MW-5 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11I2966	0.50	ND	1	9/26/2011	9/27/2011	
Ethylbenzene	EPA 8260B	11I2966	0.50	ND	1	9/26/2011	9/27/2011	
Toluene	EPA 8260B	11I2966	0.50	ND	1	9/26/2011	9/27/2011	
Xylenes, Total	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I2966	1.0	1.2	1	9/26/2011	9/27/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11I2966	1.0	ND	1	9/26/2011	9/27/2011	
tert-Butanol (TBA)	EPA 8260B	11I2966	10	240	1	9/26/2011	9/27/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				97 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				95 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				101 %				
Sample ID: IUI2278-06 (MW-6 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11I2966	10	ND	20	9/26/2011	9/27/2011	
Ethylbenzene	EPA 8260B	11I2966	10	ND	20	9/26/2011	9/27/2011	
Toluene	EPA 8260B	11I2966	10	ND	20	9/26/2011	9/27/2011	
Xylenes, Total	EPA 8260B	11I2966	20	ND	20	9/26/2011	9/27/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11I2966	20	ND	20	9/26/2011	9/27/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11I2966	20	ND	20	9/26/2011	9/27/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I2966	20	ND	20	9/26/2011	9/27/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11I2966	20	ND	20	9/26/2011	9/27/2011	
tert-Butanol (TBA)	EPA 8260B	11I2966	200	16000	20	9/26/2011	9/27/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				98 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				97 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				101 %				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUI2278-07 (MW-7 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11I2966	25	ND	50	9/26/2011	9/27/2011	
Ethylbenzene	EPA 8260B	11I2966	25	ND	50	9/26/2011	9/27/2011	
Toluene	EPA 8260B	11I2966	25	ND	50	9/26/2011	9/27/2011	
Xylenes, Total	EPA 8260B	11I2966	50	ND	50	9/26/2011	9/27/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11I2966	50	ND	50	9/26/2011	9/27/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11I2966	50	ND	50	9/26/2011	9/27/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I2966	50	ND	50	9/26/2011	9/27/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11I2966	50	ND	50	9/26/2011	9/27/2011	
tert-Butanol (TBA)	EPA 8260B	11I2966	500	48000	50	9/26/2011	9/27/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				97 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				98 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				101 %				
Sample ID: IUI2278-08 (MW-8 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11I3425	2.5	370	5	9/29/2011	9/29/2011	
Ethylbenzene	EPA 8260B	11I3425	2.5	3.3	5	9/29/2011	9/29/2011	
Toluene	EPA 8260B	11I3425	2.5	13	5	9/29/2011	9/29/2011	
Xylenes, Total	EPA 8260B	11I3425	5.0	30	5	9/29/2011	9/29/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11I3425	5.0	ND	5	9/29/2011	9/29/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11I3425	5.0	ND	5	9/29/2011	9/29/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I3425	5.0	53	5	9/29/2011	9/29/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11I3425	5.0	ND	5	9/29/2011	9/29/2011	
tert-Butanol (TBA)	EPA 8260B	11I3425	50	2500	5	9/29/2011	9/29/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				107 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				107 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				109 %				

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Report Number: IUI2278

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VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Data Qualifiers
Batch: 11I2966 Extracted: 09/26/11									
Blank Analyzed: 09/26/2011 (11I2966-BLK1)									
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l			97	80-120		
Surrogate: Dibromofluoromethane	24.3		ug/l	25.0		100	80-120		
Surrogate: Toluene-d8	25.0		ug/l	25.0		98	80-120		
Surrogate: 4-Bromofluorobenzene	24.6		ug/l	25.0					
LCS Analyzed: 09/26/2011 (11I2966-BS2)									
Volatile Fuel Hydrocarbons (C4-C12)	542	50	ug/l	500		108	55-130		
Surrogate: Dibromofluoromethane	24.2		ug/l	25.0		97	80-120		
Surrogate: Toluene-d8	26.1		ug/l	25.0		105	80-120		
Surrogate: 4-Bromofluorobenzene	25.1		ug/l	25.0		101	80-120		
Matrix Spike Analyzed: 09/26/2011 (11I2966-MS1)									
					Source: IUI2279-02				
Volatile Fuel Hydrocarbons (C4-C12)	1840	50	ug/l	1720	ND	107	50-145		
Surrogate: Dibromofluoromethane	24.4		ug/l	25.0		98	80-120		
Surrogate: Toluene-d8	25.4		ug/l	25.0		101	80-120		
Surrogate: 4-Bromofluorobenzene	23.4		ug/l	25.0		93	80-120		
Matrix Spike Dup Analyzed: 09/26/2011 (11I2966-MSD1)									
					Source: IUI2279-02				
Volatile Fuel Hydrocarbons (C4-C12)	1910	50	ug/l	1720	ND	111	50-145	4	20
Surrogate: Dibromofluoromethane	24.2		ug/l	25.0		97	80-120		
Surrogate: Toluene-d8	24.8		ug/l	25.0		99	80-120		
Surrogate: 4-Bromofluorobenzene	25.1		ug/l	25.0		100	80-120		
Batch: 11I3101 Extracted: 09/27/11									
Blank Analyzed: 09/27/2011 (11I3101-BLK1)									
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l						
Surrogate: Dibromofluoromethane	27.2		ug/l	25.0		109	80-120		
Surrogate: Toluene-d8	26.3		ug/l	25.0		105	80-120		
Surrogate: 4-Bromofluorobenzene	27.4		ug/l	25.0		110	80-120		

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VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I3101 Extracted: 09/27/11										
LCS Analyzed: 09/27/2011 (11I3101-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	448	50	ug/l	500		90	55-130			
Surrogate: Dibromofluoromethane	25.0		ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	26.3		ug/l	25.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	26.8		ug/l	25.0		107	80-120			
Matrix Spike Analyzed: 09/27/2011 (11I3101-MS1) Source: IUI2278-01										
Volatile Fuel Hydrocarbons (C4-C12)	1560	50	ug/l	1720	288	74	50-145			
Surrogate: Dibromofluoromethane	26.0		ug/l	25.0		104	80-120			
Surrogate: Toluene-d8	27.1		ug/l	25.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	26.4		ug/l	25.0		106	80-120			
Matrix Spike Dup Analyzed: 09/27/2011 (11I3101-MSD1) Source: IUI2278-01										
Volatile Fuel Hydrocarbons (C4-C12)	1520	50	ug/l	1720	288	71	50-145	3	20	
Surrogate: Dibromofluoromethane	26.1		ug/l	25.0		105	80-120			
Surrogate: Toluene-d8	26.9		ug/l	25.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	27.1		ug/l	25.0		108	80-120			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 11I2966 Extracted: 09/26/11									
Blank Analyzed: 09/26/2011 (11I2966-BLK1)									
Benzene	ND	0.50	ug/l						
Ethylbenzene	ND	0.50	ug/l						
Toluene	ND	0.50	ug/l						
m,p-Xylenes	ND	1.0	ug/l						
o-Xylene	ND	0.50	ug/l						
Xylenes, Total	ND	1.0	ug/l						
Di-isopropyl Ether (DIPE)	ND	1.0	ug/l						
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/l						
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l						
tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/l						
tert-Butanol (TBA)	ND	10	ug/l						
Surrogate: 4-Bromofluorobenzene	24.6		ug/l	25.0		98		80-120	
Surrogate: Dibromofluoromethane	24.3		ug/l	25.0		97		80-120	
Surrogate: Toluene-d8	25.0		ug/l	25.0		100		80-120	
LCS Analyzed: 09/26/2011 (11I2966-BS1)									
Benzene	26.0	0.50	ug/l	25.0		104		70-120	
Ethylbenzene	28.0	0.50	ug/l	25.0		112		75-125	
Toluene	27.4	0.50	ug/l	25.0		110		70-120	
m,p-Xylenes	55.5	1.0	ug/l	50.0		111		75-125	
o-Xylene	28.6	0.50	ug/l	25.0		115		75-125	
Xylenes, Total	84.2	1.0	ug/l	75.0		112		70-125	
Di-isopropyl Ether (DIPE)	25.7	1.0	ug/l	25.0		103		60-135	
Ethyl tert-Butyl Ether (ETBE)	24.0	1.0	ug/l	25.0		96		65-135	
Methyl-tert-butyl Ether (MTBE)	22.7	1.0	ug/l	25.0		91		60-135	
tert-Amyl Methyl Ether (TAME)	24.8	1.0	ug/l	25.0		99		60-135	
tert-Butanol (TBA)	149	10	ug/l	125		119		70-135	
Surrogate: 4-Bromofluorobenzene	25.4		ug/l	25.0		102		80-120	
Surrogate: Dibromofluoromethane	24.8		ug/l	25.0		99		80-120	
Surrogate: Toluene-d8	26.1		ug/l	25.0		104		80-120	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I2966 Extracted: 09/26/11										
Matrix Spike Analyzed: 09/26/2011 (11I2966-MS1)					Source: IUI2279-02					
Benzene	28.6	0.50	ug/l	25.0	ND	114	65-125			
Ethylbenzene	28.6	0.50	ug/l	25.0	ND	114	65-130			
Toluene	29.2	0.50	ug/l	25.0	ND	117	70-125			
m,p-Xylenes	57.6	1.0	ug/l	50.0	ND	115	65-130			
o-Xylene	28.9	0.50	ug/l	25.0	ND	116	65-125			
Xylenes, Total	86.5	1.0	ug/l	75.0	ND	115	60-130			
Di-isopropyl Ether (DIPE)	26.9	1.0	ug/l	25.0	ND	108	60-140			
Ethyl tert-Butyl Ether (ETBE)	25.9	1.0	ug/l	25.0	ND	103	60-135			
Methyl-tert-butyl Ether (MTBE)	24.3	1.0	ug/l	25.0	ND	97	55-145			
tert-Amyl Methyl Ether (TAME)	26.9	1.0	ug/l	25.0	ND	107	60-140			
tert-Butanol (TBA)	165	10	ug/l	125	ND	132	65-140			
Surrogate: 4-Bromofluorobenzene	23.4		ug/l	25.0		93	80-120			
Surrogate: Dibromofluoromethane	24.4		ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	25.4		ug/l	25.0		101	80-120			
Matrix Spike Dup Analyzed: 09/26/2011 (11I2966-MSD1)					Source: IUI2279-02					
Benzene	28.9	0.50	ug/l	25.0	ND	116	65-125	1	20	
Ethylbenzene	31.6	0.50	ug/l	25.0	ND	127	65-130	10	20	
Toluene	30.1	0.50	ug/l	25.0	ND	120	70-125	3	20	
m,p-Xylenes	63.6	1.0	ug/l	50.0	ND	127	65-130	10	25	
o-Xylene	32.5	0.50	ug/l	25.0	ND	130	65-125	12	20	MI
Xylenes, Total	96.2	1.0	ug/l	75.0	ND	128	60-130	11	20	
Di-isopropyl Ether (DIPE)	27.8	1.0	ug/l	25.0	ND	111	60-140	3	25	
Ethyl tert-Butyl Ether (ETBE)	26.4	1.0	ug/l	25.0	ND	106	60-135	2	25	
Methyl-tert-butyl Ether (MTBE)	25.0	1.0	ug/l	25.0	ND	100	55-145	3	25	
tert-Amyl Methyl Ether (TAME)	27.2	1.0	ug/l	25.0	ND	109	60-140	1	30	
tert-Butanol (TBA)	165	10	ug/l	125	ND	132	65-140	0.3	25	
Surrogate: 4-Bromofluorobenzene	25.1		ug/l	25.0		100	80-120			
Surrogate: Dibromofluoromethane	24.2		ug/l	25.0		97	80-120			
Surrogate: Toluene-d8	24.8		ug/l	25.0		99	80-120			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I3425 Extracted: 09/29/11										
Blank Analyzed: 09/29/2011 (11I3425-BLK1)										
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
o-Xylene	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/l							
tert-Butanol (TBA)	ND	10	ug/l							
Surrogate: 4-Bromofluorobenzene	26.7		ug/l	25.0		107	80-120			
Surrogate: Dibromofluoromethane	26.5		ug/l	25.0		106	80-120			
Surrogate: Toluene-d8	26.2		ug/l	25.0		105	80-120			
LCS Analyzed: 09/29/2011 (11I3425-BS1)										
Benzene	23.6	0.50	ug/l	25.0		94	70-120			
Ethylbenzene	27.8	0.50	ug/l	25.0		111	75-125			
Toluene	25.6	0.50	ug/l	25.0		103	70-120			
m,p-Xylenes	56.4	1.0	ug/l	50.0		113	75-125			
o-Xylene	27.2	0.50	ug/l	25.0		109	75-125			
Xylenes, Total	83.6	1.0	ug/l	75.0		111	70-125			
Di-isopropyl Ether (DIPE)	24.9	1.0	ug/l	25.0		100	60-135			
Ethyl tert-Butyl Ether (ETBE)	27.0	1.0	ug/l	25.0		108	65-135			
Methyl-tert-butyl Ether (MTBE)	25.8	1.0	ug/l	25.0		103	60-135			
tert-Amyl Methyl Ether (TAME)	27.8	1.0	ug/l	25.0		111	60-135			
tert-Butanol (TBA)	132	10	ug/l	125		105	70-135			
Surrogate: 4-Bromofluorobenzene	26.3		ug/l	25.0		105	80-120			
Surrogate: Dibromofluoromethane	25.2		ug/l	25.0		101	80-120			
Surrogate: Toluene-d8	27.1		ug/l	25.0		109	80-120			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I3425 Extracted: 09/29/11										
Matrix Spike Analyzed: 09/29/2011 (11I3425-MS1)					Source: IUI2140-14					
Benzene	22.8	0.50	ug/l	25.0	ND	91	65-125			
Ethylbenzene	26.9	0.50	ug/l	25.0	ND	108	65-130			
Toluene	25.1	0.50	ug/l	25.0	ND	100	70-125			
m,p-Xylenes	54.1	1.0	ug/l	50.0	ND	108	65-130			
o-Xylene	27.1	0.50	ug/l	25.0	ND	108	65-125			
Xylenes, Total	81.2	1.0	ug/l	75.0	ND	108	60-130			
Di-isopropyl Ether (DIPE)	25.5	1.0	ug/l	25.0	ND	102	60-140			
Ethyl tert-Butyl Ether (ETBE)	28.3	1.0	ug/l	25.0	ND	113	60-135			
Methyl-tert-butyl Ether (MTBE)	25.8	1.0	ug/l	25.0	ND	103	55-145			
tert-Amyl Methyl Ether (TAME)	29.0	1.0	ug/l	25.0	ND	116	60-140			
tert-Butanol (TBA)	131	10	ug/l	125	ND	105	65-140			
Surrogate: 4-Bromofluorobenzene	26.6		ug/l	25.0		106	80-120			
Surrogate: Dibromofluoromethane	26.0		ug/l	25.0		104	80-120			
Surrogate: Toluene-d8	26.8		ug/l	25.0		107	80-120			
Matrix Spike Dup Analyzed: 09/29/2011 (11I3425-MSD1)					Source: IUI2140-14					
Benzene	24.4	0.50	ug/l	25.0	ND	98	65-125	7	20	
Ethylbenzene	28.8	0.50	ug/l	25.0	ND	115	65-130	7	20	
Toluene	26.6	0.50	ug/l	25.0	ND	107	70-125	6	20	
m,p-Xylenes	57.9	1.0	ug/l	50.0	ND	116	65-130	7	25	
o-Xylene	28.7	0.50	ug/l	25.0	ND	115	65-125	6	20	
Xylenes, Total	86.6	1.0	ug/l	75.0	ND	116	60-130	7	20	
Di-isopropyl Ether (DIPE)	27.0	1.0	ug/l	25.0	ND	108	60-140	6	25	
Ethyl tert-Butyl Ether (ETBE)	30.2	1.0	ug/l	25.0	ND	121	60-135	7	25	
Methyl-tert-butyl Ether (MTBE)	27.3	1.0	ug/l	25.0	ND	109	55-145	6	25	
tert-Amyl Methyl Ether (TAME)	30.8	1.0	ug/l	25.0	ND	123	60-140	6	30	
tert-Butanol (TBA)	130	10	ug/l	125	ND	104	65-140	1	25	
Surrogate: 4-Bromofluorobenzene	26.2		ug/l	25.0		105	80-120			
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	26.6		ug/l	25.0		107	80-120			

TestAmerica Irvine

Philip Sanelle
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 610 Market St., Oakland, CA

Report Number: IUI2278

Sampled: 09/19/11

Received: 09/24/11

DATA QUALIFIERS AND DEFINITIONS

- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P-HS** Sample container contained headspace.
- QP1** Hydrocarbon result partly due to individual peak(s) in quantitation range.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD.
The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For Volatile Fuel Hydrocarbons (C4-C12):

Volatile Fuel Hydrocarbons (C4-C12) are quantitated against a gasoline standard. Quantitation begins immediately before TBA-d9.

TestAmerica Irvine

Philip Sanelle
Project Manager

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IUI2278 <Page 14 of 15>

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Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 8260B	Water	X	X
TPH by GC/MS	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Philip Sanelle
Project Manager

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LAB (LOCATION)

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



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

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

Print/Bill To Contact Name:
Peter Schaefer 240594

PO #

4 0 - 4 0 3 4 9 7 3

INCIDENT # (ENV SERVICES) CHECK IF NO INCIDENT # APPLIES

9 8 9 9 5 7 5 0

DATE: 9-19-11

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

ADDRESS: 1680 Rogers Avenue, San Jose, CA

PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King

TELEPHONE: 310-895-4455 x 108

FAX: 310-637-5802

E-MAIL: lking@blainetech.com

SITE ADDRESS: Street and City: 810 Market St., Oakland

State: CA

GLOBAL ID NO.: T0600102121

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO.: 510-420-3343

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: 110919-CH1

SAMPLER NAME(S) (Print): Christoph Schaefer

LAB USE ONLY: 742278

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:

Email invoice and copy of final report to Shell.Lab.Billing@craworld.com

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.	TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8016M)	TPHg (8016M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8016M)	5 OXY	TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER																	
	MW-1	9-19-11	1420	wg	X					3	X			X											2-30	
	MW-2		1130		X					3	X			X												
	MW-3		1410		X					3	X				X											
	MW-4		1340		X					3	X				X											
	MW-5		1350		X					3	X				X											
	MW-6		1435		X					3	X				X											
	MW-7		1230		X					3	X				X											
	MW-8		1210		X					3	X				X											

Relinquished by: (Signature)	Received by: (Signature)	Date: 9-19-11	Time: 1630
Relinquished by: (Signature)	Received by: (Signature)	Date: 9-23-11	Time: 10:15
Relinquished by: (Signature)	Received by: (Signature)	Date: 09/24/11	Time: 10:50