



**CONESTOGA-ROVERS  
& ASSOCIATES**

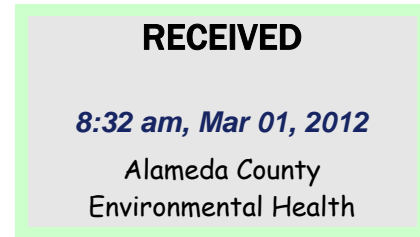
5900 Hollis Street, Suite A  
Emeryville, California 94608  
Telephone: (510) 420-0700 Fax: (510) 420-9170  
www.CRAworld.com

## TRANSMITTAL

DATE: February 29, 2012 REFERENCE NO.: 240733

PROJECT NAME: 2120 Montana Street, Oakland

TO: Jerry Wickham  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577



Please find enclosed:  Draft  Final  
 Originals  Other  
 Prints

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

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Fourth Quarter 2011

As Requested  For Review and Comment  
 For Your Use

**COMMENTS:**

If you have any questions regarding the content of this document, please contact Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (electronic copy)  
SF Data Room (electronic copy)

Completed by: Peter Schaefer Signed: *Ambrey Cool*

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](mailto:denis.l.brown@shell.com)

Re: Shell-branded Service Station  
2120 Montana Street  
Oakland, California  
SAP Code 135675  
Incident No. 98995740  
ACEH Case No. RO0000173

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 fluid and cursive, with a long horizontal line extending to the right.

Denis L. Brown  
Senior Program Manager



## **GROUNDWATER MONITORING REPORT - FOURTH QUARTER 2011**

**SHELL-BRANDED SERVICE STATION  
2120 MONTANA STREET  
OAKLAND, CALIFORNIA**

**SAP CODE            135675  
INCIDENT NO.      98995740  
AGENCY NO.        RO0000173**

**FEBRUARY 29, 2012  
REF. NO. 240733 (14)**

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	2120 Montana 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.	RO0000173
Shell SAP Code	135675
Shell Incident No.	98995740

Date of most recent agency correspondence was July 24, 2009.

**2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION**

**2.1 CURRENT QUARTER'S ACTIVITIES**

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

CRA prepared a vicinity map (Figure 1), 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 report is presented in Appendix B.

**2.2**            **CURRENT QUARTER'S FINDINGS**

Groundwater Flow Direction	Generally southerly to southwesterly
Hydraulic Gradient	0.04
Depth to Water	9.93 to 14.04 feet below top of well casing

**2.3**            **PROPOSED ACTIVITIES**

Blaine will gauge and sample wells according to the established monitoring program for this site. This site is monitored semiannually during the second and fourth quarters, and CRA will issue groundwater monitoring reports semiannually following the sampling events.

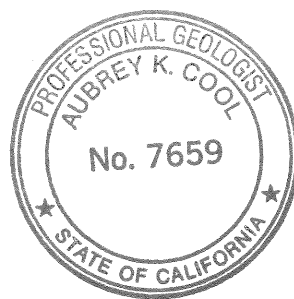
All of Which is Respectfully Submitted,  
CONESTOGA-ROVERS & ASSOCIATES

*Amended for:*

Peter Schaefer, CHG, CEG

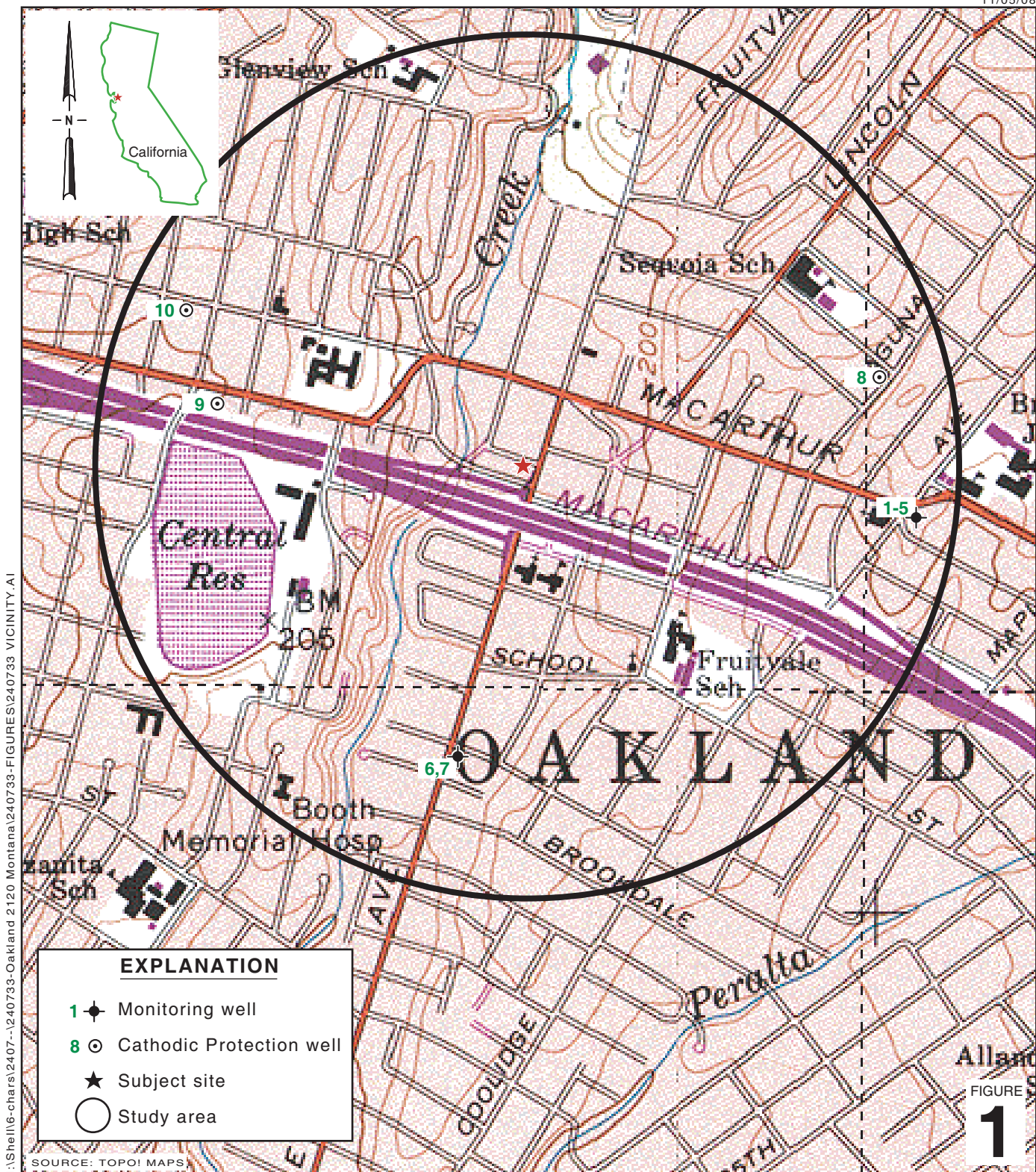
*Aubrey K. Cool*

Aubrey K. Cool, PG





## FIGURES



I:\Shell\6-chars\2407--\240733-Oakland 2120 Montana\240733-FIGURES\240733 VICINITY.A1

FIGURE 1

**Shell-branded Service Station**  
 2120 Montana Street  
 Oakland, California



**CONESTOGA-ROVERS & ASSOCIATES**

**Vicinity Map**

### EXPLANATION

- EW-1** Extraction well location
- MW-1** Well formerly used for groundwater extraction
- MW-2** Monitoring well location
- TBW-N** Tank backfill well location
- SV-D** Soil vapor sampling location (06/14-16/05)
- SV-A** Attempted soil vapor sampling location (6/14/05)
- INF** GWE system sampling location

- Remediation piping (R)
- Discharge line (D)
- Electrical line (E)
- Overhead electric line (OE)
- Sanitary sewer (SS)
- Water line (W)
- Telecommunications line (T)

- Product dispenser number
- Groundwater flow direction and gradient
- Groundwater elevation contour, in feet above mean sea level (msl)

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

**Notes:**  
 ND = Not detected

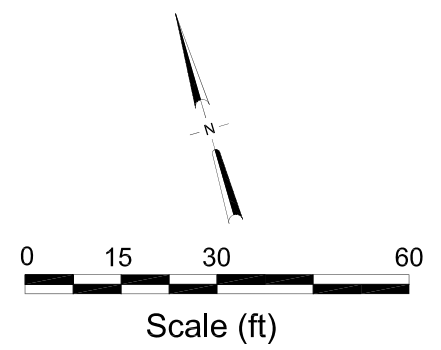
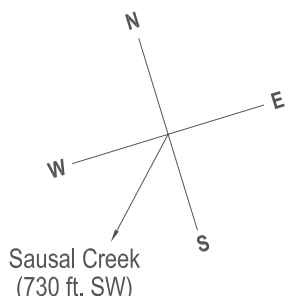
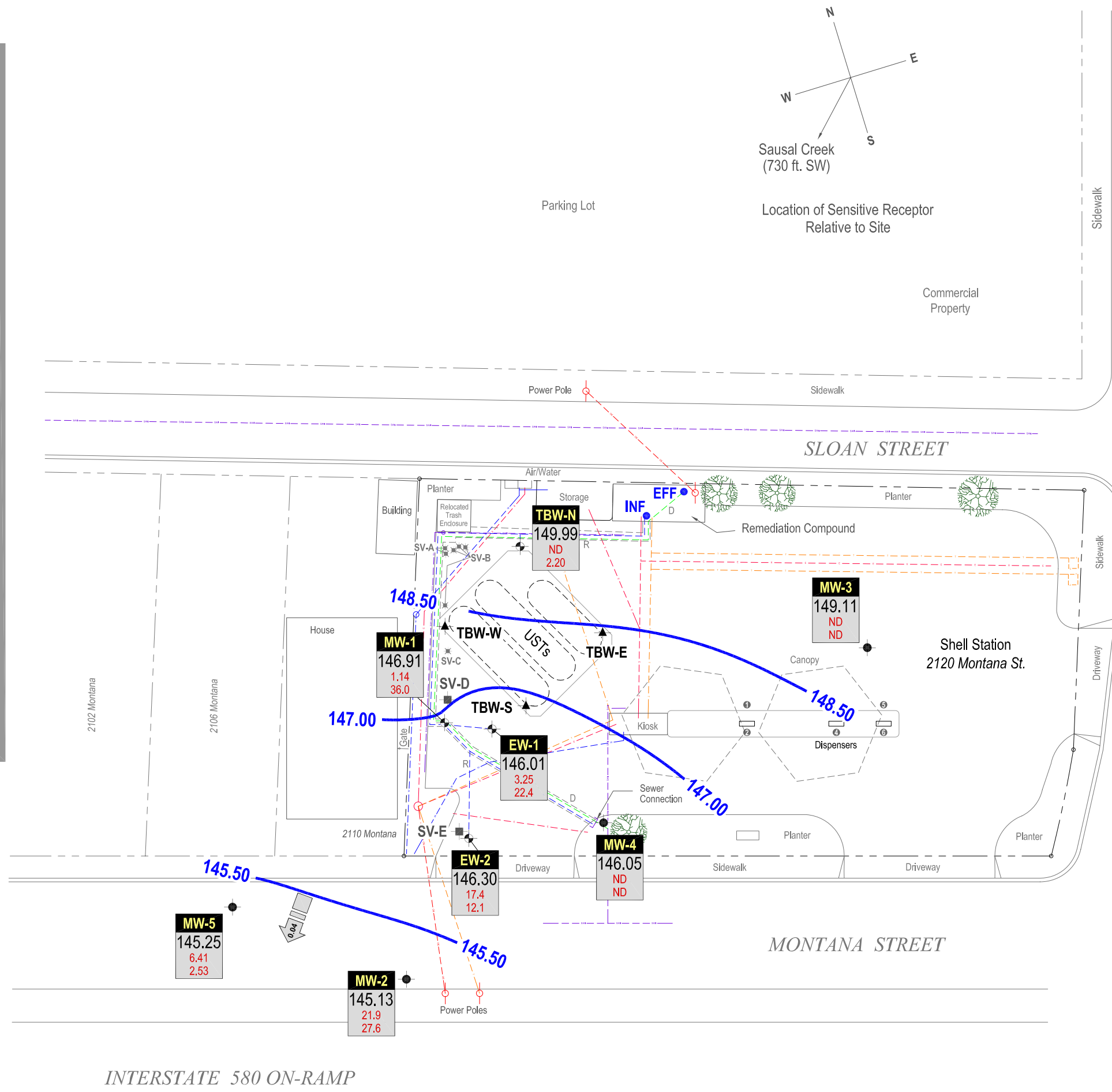


FIGURE  
**2**



I:\Shell\6-chars\2407--\240733-Oakland 2120 Montana\240733-REPORTS\240733-RPT14-4Q11\240733-4Q11-GW.DWG

TABLE

TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>	<i>TOC (ft MSL)</i>	<i>Depth to Water (ft TOC)</i>	<i>GW Elevation (ft MSL)</i>	<i>SPH Thickness (ft)</i>
MW-1	03/19/2001	---	---	---	---	---	---	---	---	---	---	159.59	12.14	147.45	---
MW-1	03/23/2001	16,600	753	1,720	407	2,330	27,500	---	---	---	---	159.59	12.25	147.34	---
MW-1	05/31/2001	<20,000	1,000	920	490	2,000	54,000	---	---	---	---	159.59	12.22	147.37	---
MW-1	06/27/2001	---	---	---	---	---	---	---	---	---	---	159.59	13.00b	---	---
MW-1	07/09/2001	---	---	---	---	---	---	---	---	---	---	159.59	13.17	146.67	0.31
MW-1	09/25/2001	---	---	---	---	---	---	---	---	---	---	159.59	14.27	145.66	0.43
MW-1	11/20/2001	---	---	---	---	---	---	---	---	---	---	159.59	13.49	146.14	0.05
MW-1	12/05/2001	---	---	---	---	---	---	---	---	---	---	159.59	11.32	148.31	0.05
MW-1	03/01/2002	---	---	---	---	---	---	---	---	---	---	159.59	13.22	146.56	0.24
MW-1	06/06/2002	---	---	---	---	---	---	---	---	---	---	159.59	12.99	147.00	0.50
MW-1	07/16/2002	---	---	---	---	---	---	---	---	---	---	159.59	13.37	146.22	---
MW-1	09/06/2002	---	---	---	---	---	---	---	---	---	---	159.57	13.30	146.70	0.54
MW-1	12/12/2002	---	---	---	---	---	---	---	---	---	---	159.57	13.78	146.61	1.03
MW-1	03/31/2003	---	---	---	---	---	---	---	---	---	---	159.57	11.21	148.38	0.03
MW-1	06/30/2003	7,800	<25	37	<25	380	2,000	---	---	---	---	159.57	12.20	147.37	---
MW-1	09/09/2003	---	---	---	---	---	---	---	---	---	---	159.08	15.70	145.28	2.38
MW-1	12/29/2003	---	---	---	---	---	---	---	---	---	---	159.08	11.25	147.89	0.07
MW-1	03/17/2004	---	---	---	---	---	---	---	---	---	---	159.08	11.80	147.40	0.15
MW-1	05/24/2004	---	---	---	---	---	---	---	---	---	---	159.08	12.42	146.71	0.06
MW-1	09/17/2004	8,000	530	380	330	960	1,100	4,100	<20	<20	<20	159.08	15.95	143.13	---
MW-1	12/06/2004	2,800	150	<5.0	120	120	300	---	---	---	---	159.08	13.15	145.93	---
MW-1	03/02/2005	13,000	490	710	360	2,200	5,000	---	---	---	---	159.08	12.14	146.94	---
MW-1	06/10/2005	5,600	210	120	120	910	3,100	---	---	---	---	159.08	---	---	<0.01
MW-1	09/01/2005	<1,300	73	<13	30	42	2,400	13,000	<50	<50	<50	159.08	11.71	147.37	---
MW-1	11/16/2005	4,150	62.7	10.9	45.2	98.9	845	---	---	---	---	159.08	11.71	147.37	---
MW-1 i	03/03/2006	<50.0	<0.500	<0.500	<0.500	<0.500	0.790	<10.0	---	---	---	159.08	13.37	145.71	---
MW-1	05/12/2006	3,430	80.0	0.530	26.8	71.9	154	1,040	---	---	---	159.08	17.41	141.67	---
MW-1	09/05/2006	5,390	24.8	2.44	6.69	22.2	106	4,860	<0.500	<0.500	<0.500	159.08	12.12	146.96	---
MW-1	12/18/2006	6,800	120	28	110	840	1,100	5,400	---	---	---	159.08	10.74	148.34	---
MW-1	03/21/2007	Well inaccessible		---	---	---	---	---	---	---	---	159.08	---	---	---

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>	<i>TOC (ft MSL)</i>	<i>Depth to Water (ft TOC)</i>	<i>GW Elevation (ft MSL)</i>	<i>SPH Thickness (ft)</i>
MW-1	06/14/2007	6,200	18	<5.0	11	4.6 k	68	1,800	---	---	---	159.08	19.82	139.26	---
MW-1	08/27/2007	2,700 I	13	<5.0	3.9 k	5.6 k	54	1,200	<10	<10	<10	159.08	12.20	146.88	---
MW-1	11/29/2007	2,600 I	20	1.9 k	8.3	29.4	350	4,100	---	---	---	159.08	11.68	147.40	---
MW-1	03/21/2008	4,600	42	<5.0	120	94	300	3,200	---	---	---	159.08	11.59	147.49	---
MW-1	05/29/2008	1,800	11	<5.0	<5.0	<5.0	150	3,900	---	---	---	159.08	11.87	147.21	---
MW-1	08/29/2008	2,400	42	<5.0	23	<5.0	320	4,700	<10	<10	<10	159.08	12.33	146.75	---
MW-1	12/29/2008	2,700	30	<5.0	28	45	460	3,300	---	---	---	159.08	11.21	147.87	---
MW-1	03/05/2009	2,000	15	<5.0	<5.0	66	83	980	---	---	---	159.08	8.98	150.10	---
MW-1	05/27/2009	2,100	25	<1.0	69	52	220	2,500	---	---	---	159.08	11.71	147.37	---
MW-1	12/28/2009	1,500	8.5	<2.0	8.8	7.4	140	1,800	<4.0	<4.0	<4.0	159.08	11.13	147.95	---
MW-1	06/02/2010	2,100	22	<2.0	73	51	140	2,600	---	---	---	159.08	11.10	147.98	---
MW-1	12/28/2010	3,700	26	<2.0	69	260	100	1,400	<4.0	<4.0	<4.0	159.08	9.95	149.13	---
MW-1	06/20/2011	2,000	11	<0.50	93	120	64	1,400	---	---	---	159.08	11.40	147.68	---
<b>MW-1</b>	<b>12/13/2011</b>	<b>1,100</b>	<b>1.14</b>	<b>&lt;0.500</b>	<b>2.55</b>	<b>3.58</b>	<b>36.0</b>	<b>530</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>159.08</b>	<b>12.17</b>	<b>146.91</b>	<b>---</b>
MW-2	03/19/2001	---	---	---	---	---	---	---	---	---	---	158.03	11.60	146.43	---
MW-2	03/23/2001	4,450	280	41.0	62.1	63.0	16,600	---	---	---	---	158.03	11.76	146.27	---
MW-2	05/31/2001	<20,000	820	<200	<200	<200	63,000	---	---	---	---	158.03	11.40	146.63	---
MW-2	06/27/2001	<50,000	610	4.0	13	9.2	47,000	---	---	---	---	158.03	12.65	145.38	---
MW-2	09/25/2001	<2,000	41	<20	<20	<20	6,400	---	---	---	---	158.03	12.89	145.14	---
MW-2	12/05/2001	<2,000	74	<20	<20	<20	8,400	---	---	---	---	158.03	10.40	147.63	---
MW-2	03/01/2002	<1,000	<10	<10	<10	<10	2,900	---	---	---	---	158.03	11.52	146.51	---
MW-2	06/06/2002	<5,000	210	<50	<50	<50	23,000	---	---	---	---	158.03	12.15	145.88	---
MW-2	07/16/2002	---	---	---	---	---	---	---	---	---	---	158.03	12.25	145.78	---
MW-2	09/06/2002	<2,000	56	<20	<20	<20	11,000	---	---	---	---	158.01	12.44	145.57	---
MW-2	12/12/2002	<2,500	80	<25	<25	<25	13,000	---	---	---	---	158.01	12.53	145.48	---
MW-2	03/31/2003	<5,000	230	1,200	95	150	13,000	---	---	---	---	158.01	11.98	146.03	---
MW-2	06/30/2003	<12,000	780	<120	170	250	9,000	---	---	---	---	158.01	12.10	145.91	---
MW-2	09/09/2003	140,000	4,600	40,000	4,800	32,000	11,000	---	---	---	---	158.01	12.94	145.07	---
MW-2	12/29/2003	220,000	240	4,800	2,900	19,000	1,000	---	---	---	---	158.01	11.20	146.81	---

TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>	<i>TOC (ft MSL)</i>	<i>Depth to Water (ft TOC)</i>	<i>GW Elevation (ft MSL)</i>	<i>SPH Thickness (ft)</i>
MW-2	03/17/2004	25,000	170	390	280	1,400	1,500	---	---	---	---	158.01	11.40	146.61	---
MW-2	05/24/2004	140,000	<25	220	1,200	6,800	320	---	---	---	---	158.01	12.28	145.73	---
MW-2	09/17/2004	64,000	2,900	230	2,300	9,700	6,300	4,100	<100	<100	<100	158.01	12.90	145.11	---
MW-2	12/06/2004	47,000	1,200	46	1,300	6,000	3,900	---	---	---	---	158.01	13.02	144.99	---
MW-2	03/02/2005	85,000	1,600	81	1,900	6,900	2,500	---	---	---	---	158.01	11.06	146.95	---
MW-2	06/10/2005	100,000	450	<25	440	800	300	---	---	---	---	158.01	11.71	146.30	---
MW-2	09/01/2005	140,000 m	490	<25	550	850	110	1,900	<100	<100	<100	158.01	12.11	145.90	---
MW-2	11/16/2005	473,000 j	776	18.7	1,300	2,730	374	---	---	---	---	158.01	12.15	145.86	---
MW-2 i	03/03/2006	4,830	6.25	2.29	14.6	5.45	106	228	---	---	---	158.01	11.40	146.61	---
MW-2	05/12/2006	7,610	1,200	27.9	858	396	688	681	---	---	---	158.01	14.22	143.79	---
MW-2	09/05/2006	84,000	683	10.2	314	300	96.7	1,250	<0.500	<0.500	<0.500	158.01	12.20	145.81	---
MW-2	12/18/2006	19,000	230	6.2	130	64	94	1,600	---	---	---	158.01	11.03	146.98	---
MW-2	03/21/2007	30,000	380	31	460	290	95	1,700	---	---	---	158.01	11.75	146.26	---
MW-2	06/14/2007	Well inaccessible	---	---	---	---	---	---	---	---	---	158.01	---	---	---
MW-2	08/27/2007	83,000 l	220	8.7 k	99	24.5k	<10	980	<20	<20	<20	158.01	12.54	145.47	---
MW-2	11/29/2007	23,000 l	28	<10	20	<10	<10	1,200	---	---	---	158.01	11.77	146.24	---
MW-2	03/21/2008	Well inaccessible	---	---	---	---	---	---	---	---	---	158.01	---	---	---
MW-2	05/29/2008	14,000	130	14	78	6.8	130	1,000	---	---	---	158.01	12.11	145.90	---
MW-2	08/29/2008	14,000	120	10	23	6.6	60	810	<10	<10	<10	158.01	12.32	145.69	---
MW-2	12/29/2008	33,000	110	<10	15	<10	58	890	---	---	---	158.01	11.61	146.40	---
MW-2	03/05/2009	22,000	250	55	130	60	130	1,200	---	---	---	158.01	9.60	148.41	---
MW-2	05/27/2009	11,000	150	20	110	49	110	740	---	---	---	158.01	12.08	145.93	---
MW-2	12/28/2009	20,000	120	9.5	16	11	85	720	<10	<10	<10	158.01	11.79	146.22	---
MW-2	06/02/2010	59,000	100	<20	36	<20	75	600	---	---	---	158.01	11.92	146.09	---
MW-2	12/28/2010	9,100	120	8.9	52	26	50	700	<10	<10	<10	158.01	10.84	147.17	---
MW-2	06/20/2011	12,000	36	8.8	28	21	68	570	---	---	---	158.01	12.34	145.67	---
<b>MW-2</b>	<b>12/13/2011</b>	<b>6,000</b>	<b>21.9</b>	<b>2.15</b>	<b>2.98</b>	<b>4.19</b>	<b>27.6</b>	<b>307</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>158.01</b>	<b>12.88</b>	<b>145.13</b>	<b>---</b>
MW-3	03/19/2001	---	---	---	---	---	---	---	---	---	---	161.13	11.42	149.71	---
MW-3	03/23/2001	<50.0	<0.500	<0.500	<0.500	<0.500	1.26	---	---	---	---	161.13	11.42	149.71	---

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>	<i>TOC (ft MSL)</i>	<i>Depth to Water (ft TOC)</i>	<i>GW Elevation (ft MSL)</i>	<i>SPH Thickness (ft)</i>
MW-3	05/31/2001	<50	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	161.13	13.00	148.13	---
MW-3	06/27/2001	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	161.13	12.32	148.81	---
MW-3	09/25/2001	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	161.13	12.50	148.63	---
MW-3	12/05/2001	<50	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	161.13	10.13	151.00	---
MW-3	03/01/2002	<50	<0.50	<0.50	<0.50	0.73	<5.0	---	---	---	---	161.13	11.63	149.50	---
MW-3	06/06/2002	<50	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	161.13	11.55	149.58	---
MW-3	07/16/2002	---	---	---	---	---	---	---	---	---	---	161.13	11.72	149.41	---
MW-3	09/06/2002	<50	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	161.11	12.24	148.87	---
MW-3	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	161.11	12.18	148.93	---
MW-3	03/31/2003	<50	<0.50	<0.50	<0.50	<1.0	0.78	---	---	---	---	161.11	11.94	149.17	---
MW-3	06/30/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---	161.11	12.50	148.61	---
MW-3	09/09/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---	161.11	12.55	148.56	---
MW-3	12/29/2003	<50	<0.50	<0.50	<0.50	<1.0	0.70	---	---	---	---	161.11	10.90	150.21	---
MW-3	03/17/2004	<50	<0.50	<0.50	<0.50	<1.0	2.1	---	---	---	---	161.11	11.63	149.48	---
MW-3	05/24/2004	<50	<0.50	<0.50	<0.50	1.0	0.96	---	---	---	---	161.11	11.32	149.79	---
MW-3	09/17/2004	<50	<0.50	<0.50	<0.50	1.0	2.6	<5.0	<2.0	<2.0	<2.0	161.11	12.13	148.98	---
MW-3	12/06/2004	<50	<0.50	<0.50	<0.50	<1.0	6.1	---	---	---	---	161.11	12.28	148.83	---
MW-3	03/02/2005	<50	<0.50	<0.50	<0.50	<1.0	2.4	---	---	---	---	161.11	10.42	150.69	---
MW-3	06/10/2005	<50	<0.50	<0.50	<0.50	<1.0	1.6	---	---	---	---	161.11	11.15	149.96	---
MW-3	09/01/2005	<50	<0.50	<0.50	<0.50	<1.0	0.54	<5.0	<2.0	<2.0	<2.0	161.11	12.55	148.56	---
MW-3	11/16/2005	<50.0	<0.500	<0.500	<0.500	<0.500	0.570	---	---	---	---	161.11	12.04	149.07	---
MW-3 i	03/03/2006	16,000 j	191	107 j	127	997 j	1090 j	---	---	---	---	161.11	10.36	150.75	---
MW-3	05/12/2006	<50.0	<0.500	<0.500	<0.500	<0.500	1.45	---	---	---	---	161.11	12.24	148.87	---
MW-3	09/05/2006	<50.0	<0.500	<0.500	<0.500	<0.500	1.62	<10.0	<0.500	<0.500	<0.500	161.11	12.52	148.59	---
MW-3	12/18/2006	<50	<0.50	<0.50	<0.50	<1.0	0.88	---	---	---	---	161.11	11.00	150.11	---
MW-3	03/21/2007	<50	<0.50	<0.50	<0.50	<1.0	<1.0	---	---	---	---	161.11	12.10	149.01	---
MW-3	06/14/2007	100	<0.50	<1.0	<1.0	<1.0	2.4	---	---	---	---	161.11	12.08	149.03	---
MW-3	08/27/2007	<50 l	<0.50	<1.0	<1.0	<1.0	1.3	<10	<2.0	<2.0	<2.0	161.11	12.54	148.57	---
MW-3	11/29/2007	<50 l	<0.50	<1.0	<1.0	<1.0	0.52 k	---	---	---	---	161.11	12.09	149.02	---
MW-3	03/21/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	---	---	---	---	161.11	12.20	148.91	---



**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>	<i>TOC (ft MSL)</i>	<i>Depth to Water (ft TOC)</i>	<i>GW Elevation (ft MSL)</i>	<i>SPH Thickness (ft)</i>
MW-3	05/29/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	---	---	---	---	161.11	12.12	148.99	---
MW-3	08/29/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	161.11	12.49	148.62	---
MW-3	12/29/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	---	---	---	---	161.11	11.40	149.71	---
MW-3	03/05/2009	<50	<0.50	<1.0	<1.0	<1.0	<1.0	---	---	---	---	161.11	9.50	151.61	---
MW-3	05/27/2009	<50	<0.50	<1.0	<1.0	<1.0	<1.0	---	---	---	---	161.11	11.83	149.28	---
MW-3	12/28/2009	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	161.11	11.68	149.43	---
MW-3	06/02/2010	<50	<0.50	<1.0	<1.0	<1.0	<1.0	---	---	---	---	161.11	11.71	149.40	---
MW-3	12/28/2010	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	161.11	10.80	150.31	---
MW-3	06/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<1.0	---	---	---	---	161.11	11.95	149.16	---
<b>MW-3</b>	<b>12/13/2011</b>	<b>&lt;50</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;10.0</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>161.11</b>	<b>12.00</b>	<b>149.11</b>	<b>---</b>
MW-4	07/10/2002	---	---	---	---	---	---	---	---	---	---	---	13.19	---	---
MW-4	07/16/2002	800	1.1	1.1	2.6	2.4	450	---	---	---	---	---	13.56	---	---
MW-4	09/06/2002	1,100	3.0	1.8	8.0	4.6	110	---	---	---	---	160.09	13.67	146.42	---
MW-4	12/12/2002	130	<0.50	<0.50	<0.50	<0.50	940	---	---	---	---	160.09	14.06	146.03	---
MW-4	03/31/2003	<250	<2.5	<2.5	<2.5	<5.0	500	---	---	---	---	160.09	13.69	146.40	---
MW-4	06/30/2003	3,100	5.3	<5.0	7.1	<10	420	---	---	---	---	160.09	14.12	145.97	---
MW-4	09/09/2003	1,400	2.4	2.0	2.6	3.2	140	---	---	---	---	160.09	14.92	145.17	---
MW-4	12/29/2003	2,700	10	6.2	20	11	420	---	---	---	---	160.09	12.71	147.38	---
MW-4	03/17/2004	1,900	6.9	3.0	33	22	290	---	---	---	---	160.09	13.24	146.85	---
MW-4	05/24/2004	1,800	<2.5	<2.5	<2.5	11	44	---	---	---	---	160.09	14.03	146.06	---
MW-4	09/17/2004	3,300	57	10	47	32	310	700	<10	<10	<10	160.09	13.58	146.51	---
MW-4	12/06/2004	4,700	9.4	3.8	34	12	150	---	---	---	---	160.09	14.65	145.44	---
MW-4	03/02/2005	<1,300	<13	<13	<13	<25	150	---	---	---	---	160.09	12.67	147.42	---
MW-4	06/10/2005	2,600	4.1	1.9	25	5.6	61	---	---	---	---	160.09	13.11	146.98	---
MW-4	09/01/2005	4,000 m	<13	<13	22	<25	36	<130	<50	<50	<50	160.09	14.00	146.09	---
MW-4	11/16/2005	4,740	3.23	1.75	12.8	6.06	12.2	---	---	---	---	160.09	13.87	146.22	---
MW-4 i	03/03/2006	79,300 j	649 j	37.2	470 j	326	577 j	---	---	---	---	160.09	12.80	147.29	---
MW-4	05/12/2006	2,750	8.03	<0.500	<0.500	<0.500	244	---	---	---	---	160.09	16.26	143.83	---
MW-4	09/05/2006	2,230	2.04	1.24	<0.500	1.50	95.9	239	<0.500	<0.500	<0.500	160.09	13.92	146.17	---

TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>	<i>TOC (ft MSL)</i>	<i>Depth to Water (ft TOC)</i>	<i>GW Elevation (ft MSL)</i>	<i>SPH Thickness (ft)</i>
MW-4	12/18/2006	1,400	4.3	1.7	7.3	2.8	140	---	---	---	---	160.09	12.71	147.38	---
MW-4	03/21/2007	540	0.68	0.51	4.0	<1.0	140	---	---	---	---	160.09	13.35	146.74	---
MW-4	06/14/2007	---	---	---	---	---	---	---	---	---	---	160.09	19.02	141.07	---
MW-4	08/27/2007	880 l,m	0.38 k	<1.0	<1.0	<1.0	8.5	98	<2.0	<2.0	<2.0	160.09	13.92	146.17	---
MW-4	11/29/2007	3,200 l	1.9	1.2	1.9	2.55 k	<1.0	---	---	---	---	160.09	13.50	146.59	---
MW-4	03/21/2008	350	<0.50	<1.0	<1.0	<1.0	8.2	---	---	---	---	160.09	13.45	146.64	---
MW-4	05/29/2008	1,800	1.6	<1.0	1.8	1.5	13	---	---	---	---	160.09	13.73	146.36	---
MW-4	08/29/2008	1,300	1.5	<1.0	1.2	1.3	13	54	<2.0	<2.0	<2.0	160.09	14.08	146.01	---
MW-4	12/29/2008	1,700	1.8	1.4	2.3	1.6	8.9	---	---	---	---	160.09	13.13	146.96	---
MW-4	03/05/2009	1,800	1.6	<1.0	<1.0	<1.0	16	---	---	---	---	160.09	11.12	148.97	---
MW-4	05/27/2009	2,000	4.6	1.8	3.5	2.2	28	---	---	---	---	160.09	13.35	146.74	---
MW-4	12/28/2009	1,100	0.66	<1.0	<1.0	<1.0	7.4	72	<2.0	<2.0	<2.0	160.09	13.35	146.74	---
MW-4	06/02/2010	1,400	1.5	<1.0	1.8	1.0	8.6	---	---	---	---	160.09	13.33	146.76	---
MW-4	12/28/2010	1,100	<0.50	<1.0	<1.0	<1.0	5.8	50	<2.0	<2.0	<2.0	160.09	12.38	147.71	---
MW-4	06/20/2011	90	<0.50	<0.50	<0.50	<1.0	2.8	---	---	---	---	160.09	13.87	146.22	---
MW-4	12/13/2011	290	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	160.09	14.04	146.05	---
MW-5	07/10/2002	---	---	---	---	---	---	---	---	---	---	---	12.22	---	---
MW-5	07/16/2002	6,100	65	7.2	100	130	410	---	---	---	---	---	12.50	---	---
MW-5	09/06/2002	5,900	100	8.1	41	32	230	---	---	---	---	158.25	12.77	145.48	---
MW-5	12/12/2002	4,900	70	5.7	25	17	280	---	---	---	---	158.25	12.71	145.54	---
MW-5	03/31/2003	6,400	61	4.9	23	13	330	---	---	---	---	158.25	11.93	146.32	---
MW-5	06/30/2003	3,400	18	<2.5	17	5.5	47	---	---	---	---	158.25	11.97	146.28	---
MW-5	09/09/2003	6,800	46	23	39	42	67	---	---	---	---	158.25	12.44	145.81	---
MW-5	12/29/2003	8,400	44	6.2	36	16	60	---	---	---	---	158.25	11.38	146.87	---
MW-5	03/17/2004	7,100	120	22	42	27	300	---	---	---	---	158.25	11.68	146.57	---
MW-5	05/24/2004	6,100	72	17	34	23	110	---	---	---	---	158.25	12.30	145.95	---
MW-5	09/17/2004	5,700	27	5.3	35	<10	28	<50	<20	<20	<20	158.25	12.15	146.10	---
MW-5	12/06/2004	4,500	11	<5.0	22	<10	7.5	---	---	---	---	158.25	12.85	145.40	---
MW-5	03/02/2005	6,500	14	<2.5	18	<5.0	6.0	---	---	---	---	158.25	10.83	147.42	---

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>	<i>TOC (ft MSL)</i>	<i>Depth to Water (ft TOC)</i>	<i>GW Elevation (ft MSL)</i>	<i>SPH Thickness (ft)</i>
MW-5	06/10/2005	5,300	19	2.4	17	4.3	7.2	---	---	---	---	158.25	12.00	146.25	---
MW-5	09/01/2005	1,900 m	5.3	<2.5	6.9	<5.0	<2.5	<25	<10	<10	<10	158.25	12.30	145.95	---
MW-5	11/16/2005	3,590	4.66	0.580	7.69	1.45	1.13	---	---	---	---	158.25	12.58	145.67	---
MW-5	03/03/2006	5,760	7.08	0.960	8.46	2.18	2.65	---	---	---	---	158.25	11.15	147.10	---
MW-5	05/12/2006	1,960	3.66	<0.500	1.03	<0.500	1.45	---	---	---	---	158.25	12.55	145.70	---
MW-5	09/05/2006	3,730	4.23	0.780	3.19	0.790	1.77	32.9	<0.500	<0.500	<0.500	158.25	12.70	145.55	---
MW-5	12/18/2006	1,600	5.1	0.66	6.0	3.3	<0.50	---	---	---	---	158.25	11.40	146.85	---
MW-5	03/21/2007	210	1.7	<0.50	<0.50	<1.0	<1.0	---	---	---	---	158.25	12.17	146.08	---
MW-5	06/14/2007	2,300	1.5	<1.0	0.43 k	<1.0	<1.0	---	---	---	---	158.25	13.50	144.75	---
MW-5	08/27/2007	2,500 l,m	3.2	0.41 k	2.8	2.48 k	<1.0	6.8 k	<2.0	<2.0	<2.0	158.25	12.55	145.70	---
MW-5	11/29/2007	2,300 l	7.8	0.45 k	0.75 k	0.60 k	<1.0	---	---	---	---	158.25	11.97	146.28	---
MW-5	03/21/2008	1,400	24	5.5	1.8	2.2	6.6	---	---	---	---	158.25	11.70	146.55	---
MW-5	05/29/2008	1,400	33	2.9	<1.0	3.2	6.9	---	---	---	---	158.25	12.27	145.98	---
MW-5	08/29/2008	960	14	<1.0	<1.0	1.4	4.3	<10	<2.0	<2.0	<2.0	158.25	12.46	145.79	---
MW-5	12/29/2008	1,200	12	<1.0	<1.0	<1.0	<1.0	---	---	---	---	158.25	11.80	146.45	---
MW-5	03/05/2009	1,900	24	2.9	3.7	7.9	<1.0	---	---	---	---	158.25	9.82	148.43	---
MW-5	05/27/2009	1,400	23	1.7	2.0	4.9	4.4	---	---	---	---	158.25	12.34	145.91	---
MW-5	12/28/2009	980	7.5	<1.0	<1.0	<1.0	2.3	<10	<2.0	<2.0	<2.0	158.25	12.18	146.07	---
MW-5	06/02/2010	1,200	12	<1.0	<1.0	3.1	<1.0	---	---	---	---	158.25	12.04	146.21	---
MW-5	12/28/2010	970	5.5	<1.0	<1.0	<1.0	1.3	<10	<2.0	<2.0	<2.0	158.25	11.11	147.14	---
MW-5	06/20/2011	1,400	9.4	0.90	0.99	3.6	2.6	---	---	---	---	158.25	12.54	145.71	---
<b>MW-5</b>	<b>12/13/2011</b>	<b>1,500</b>	<b>6.41</b>	<b>0.640</b>	<b>0.610</b>	<b>1.76</b>	<b>2.53</b>	<b>&lt;10.0</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>158.25</b>	<b>13.00</b>	<b>145.25</b>	<b>---</b>
TBW-N	09/25/2001 c	120,000	3,200	2,800	4,000	18,000	31,000	---	---	---	---	---	12.25	---	---
TBW-N	11/20/2001	72,000	2,200	3,600	2,600	14,000	35,000	---	---	---	---	---	12.13	---	---
TBW-N	12/05/2001	76,000	1,600	3,200	2,900	15,000	30,000	---	---	---	---	---	11.51	---	---
TBW-N	03/01/2002	91,000	1,200	4,200	2,800	14,000	29,000	---	---	---	---	---	11.88	---	---
TBW-N	06/06/2002	100,000	2,100	8,200	3,400	17,000	18,000	---	---	---	---	---	12.48	---	---
TBW-N	07/16/2002	---	---	---	---	---	---	---	---	---	---	---	12.39	---	---
TBW-N	09/06/2002	69,000	870	4,800	2,300	11,000	17,000	---	---	---	---	161.26	12.36	148.90	---

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>	<i>TOC (ft MSL)</i>	<i>Depth to Water (ft TOC)</i>	<i>GW Elevation (ft MSL)</i>	<i>SPH Thickness (ft)</i>
TBW-N	12/12/2002	Well inaccessible		---	---	---	---	---	---	---	---	161.26	---	---	---
TBW-N	12/19/2002	110,000	1,900	13,000	3,100	18,000	19,000	---	---	---	---	161.26	10.82	150.44	---
TBW-N	03/31/2003	62,000	1,600	6,500	2,200	11,000	11,000	---	---	---	---	161.26	10.63	150.63	---
TBW-N	06/30/2003	260,000	7,700	<120	5,800	40,000	8,400	---	---	---	---	161.26	11.51	149.75	---
TBW-N	09/09/2003	---	---	---	---	---	---	---	---	---	---	159.92	11.37	148.64	0.11
TBW-N	12/29/2003	130,000	840	8,200	2,400	18,000	5,400	---	---	---	---	159.92	10.40	149.52	---
TBW-N	03/17/2004	32,000	440	1,500	580	4,500	3,700	---	---	---	---	159.92	10.49	149.44	0.01
TBW-N	05/24/2004	110,000	380	2,600	1,600	11,000	3,100	---	---	---	---	159.92	10.72	149.20	---
TBW-N	09/17/2004	25,000	120	490	570	3,900	490	4,500	<200	<200	<200	159.92	10.80	149.12	---
TBW-N	12/06/2004	15,000	33	11	410	1,500	200	---	---	---	---	159.92	11.00	148.92	---
TBW-N	03/02/2005	7,900	15	<10	120	610	460	---	---	---	---	159.92	10.58	149.34	---
TBW-N	06/10/2005	1,200	<5.0	<5.0	13	25	93	---	---	---	---	159.92	10.68	149.24	---
TBW-N	09/01/2005	3,500 m	<10	<10	86	330	47	1,700	<40	<40	<40	159.92	11.05	148.87	---
TBW-N	11/16/2005	8,830	1.53	1.59	86.6	404	35.0	---	---	---	---	159.92	10.95	148.97	---
TBW-N	03/03/2006	955	<0.500	<0.500	1.25	<0.500	70.4	4,930	---	---	---	159.92	10.31	149.61	---
TBW-N	05/12/2006	706	<0.500	<0.500	5.81	<0.500	14.5	488	---	---	---	159.92	10.73	149.19	---
TBW-N	09/05/2006	1,230	<0.500	<0.500	6.05	2.68	15.3	265	<0.500	<0.500	<0.500	159.92	11.46	148.46	---
TBW-N	12/18/2006	290	0.68	<0.50	<0.50	<1.0	37	3,400	---	---	---	159.92	10.12	149.80	---
TBW-N	03/21/2007	300	<0.50	<0.50	<0.50	<1.0	15	820	---	---	---	159.92	10.67	149.25	---
TBW-N	06/14/2007	530	<0.50	<1.0	<1.0	<1.0	7.7	240	---	---	---	159.92	11.22	148.70	---
TBW-N	08/27/2007	100 l	0.52	<1.0	<1.0	<1.0	18	40	<2.0	<2.0	<2.0	159.92	11.44	148.48	---
TBW-N	11/29/2007	130 l	0.19 k	<1.0	<1.0	<1.0	7.8	490	---	---	---	159.92	10.58	149.34	---
TBW-N	03/21/2008	56	<0.50	<1.0	<1.0	<1.0	9.3	300	---	---	---	159.92	10.50	149.42	---
TBW-N	05/29/2008	<50	<0.50	<1.0	<1.0	<1.0	4.1	140	---	---	---	159.92	10.66	149.26	---
TBW-N	08/29/2008	54	<0.50	<1.0	<1.0	<1.0	4.3	89	<2.0	<2.0	<2.0	159.92	10.88	149.04	---
TBW-N	12/29/2008	93	<0.50	<1.0	<1.0	<1.0	4.4	740	---	---	---	159.92	10.17	149.75	---
TBW-N	03/05/2009	93	<0.50	<1.0	<1.0	<1.0	6.7	1,900	---	---	---	159.92	8.62	151.30	---
TBW-N	05/27/2009	<250	<2.5	<5.0	<5.0	<5.0	<5.0	160	---	---	---	159.92	10.44	149.48	---
TBW-N	12/28/2009	<50	<0.50	<1.0	<1.0	<1.0	2.5	170	<2.0	<2.0	<2.0	159.92	9.85	150.07	---
TBW-N	06/02/2010	<50	<0.50	<1.0	<1.0	<1.0	2.5	91	---	---	---	159.92	9.76	150.16	---

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>TBA (µg/L)</i>	<i>DIPE (µg/L)</i>	<i>ETBE (µg/L)</i>	<i>TAME (µg/L)</i>	<i>TOC (ft MSL)</i>	<i>Depth to Water (ft TOC)</i>	<i>GW Elevation (ft MSL)</i>	<i>SPH Thickness (ft)</i>
TBW-N	12/28/2010	63	<0.50	<1.0	<1.0	<1.0	2.6	720	<2.0	<2.0	<2.0	159.92	9.06	150.86	---
TBW-N	06/20/2011	<50	<0.50	<0.50	<0.50	<1.0	1.7	17	---	---	---	159.92	10.00	149.92	---
TBW-N	12/13/2011	<50	<0.500	<0.500	<0.500	<0.500	2.20	<10.0	<0.500	<0.500	<0.500	159.92	9.93	149.99	---
EW-1	05/05/2006	---	---	---	---	---	---	---	---	---	---	---	15.42	---	---
EW-1	05/12/2006	5,550	52.9	30.2	86.9	249	939	3,900	<0.500	<0.500	<0.500	---	17.33	---	---
EW-1	09/05/2006	2,700	28.3	1.64	11.8	7.98	325	1,900	<0.500	<0.500	<0.500	158.63	12.44	146.19	---
EW-1	12/18/2006	4,900	140	63	170	790	640	---	---	---	---	158.63	11.00	147.63	---
EW-1	03/21/2007	1,000	32	<2.5	14	48	420	---	---	---	---	158.63	14.61	144.02	---
EW-1	06/14/2007	2,100	14	1.1	5.0	9.3	46	---	---	---	---	158.63	21.00	137.63	---
EW-1	08/27/2007	971	<0.50	<1.0	<1.0	0.19 k	3.6	32	<2.0	<2.0	<2.0	158.63	12.80	145.83	---
EW-1	11/29/2007	7,600 l	110	36	190	1,390	470	---	---	---	---	158.63	11.87	146.76	---
EW-1	03/21/2008	7,300	160	14	400	630	640	---	---	---	---	158.63	12.10	146.53	---
EW-1	05/29/2008	3,600	93	6.0	190	124	340	---	---	---	---	158.63	12.09	146.54	---
EW-1	08/29/2008	1,100	15	1.5	78	36	48	190	<2.0	<2.0	<2.0	158.63	12.65	145.98	---
EW-1	12/29/2008	3,200	48	4.2	100	240	180	---	---	---	---	158.63	11.45	147.18	---
EW-1	03/05/2009	2,900	58	2.4	130	220	280	---	---	---	---	158.63	8.48	150.15	---
EW-1	05/27/2009	2,300	74	2.1	59	96	160	---	---	---	---	158.63	11.90	146.73	---
EW-1	12/28/2009	2,100	23	<1.0	93	96	94	400	<2.0	<2.0	<2.0	158.63	11.68	146.95	---
EW-1	06/02/2010	1,700	13	<1.0	59	66	51	---	---	---	---	158.63	11.70	146.93	---
EW-1	12/28/2010	2,100	20	<1.0	110	170	45	340	<2.0	<2.0	<2.0	158.63	10.65	147.98	---
EW-1	06/20/2011	890	7.5	<0.50	23	24	31	---	---	---	---	158.63	12.08	146.55	---
EW-1	12/13/2011	850	3.25	<0.500	15.4	9.67	22.4	27.8	<0.500	<0.500	<0.500	158.63	12.62	146.01	---
EW-2	05/05/2006	---	---	---	---	---	---	---	---	---	---	---	16.83	---	---
EW-2	05/12/2006	11,400	377	135	335	313	401	1,220	<0.500	<0.500	<0.500	---	15.91	---	---
EW-2	09/05/2006	1,810	41.1	4.52	17.2	74.0	87.8	606	<0.500	<0.500	<0.500	157.51	11.21	146.30	---
EW-2	12/18/2006	3,200	75	33	90	470	130	---	---	---	---	157.51	9.93	147.58	---
EW-2	03/21/2007	61	<0.50	<0.50	<0.50	1.5	18	---	---	---	---	157.51	10.55	146.96	---
EW-2	06/14/2007	570	3.8	<1.0	<1.0	<1.0	10	---	---	---	---	157.51	12.82	144.69	---

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
2120 MONTANA 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> ( $\mu\text{g/L}$ )	<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)	<i>SPH</i> <i>Thickness</i> (ft)
EW-2	08/27/2007	320 l	2.6	0.36 k	1.4	6.31 k	10	230	<2.0	<2.0	<2.0	157.51	10.34	147.17	---
EW-2	11/29/2007	72 l	0.83	0.53 k	0.49 k	1.41 k	12	---	---	---	---	157.51	10.80	146.71	---
EW-2	03/21/2008	250	3.5	<1.0	2.7	15.3	62	---	---	---	---	157.51	10.80	146.71	---
EW-2	05/29/2008	280	8.7	1.5	7.8	29.3	46	---	---	---	---	157.51	10.86	146.65	---
EW-2	08/29/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	157.51	9.81	147.70	---
EW-2	12/29/2008	760	21	1.4	17	64	37	---	---	---	---	157.51	10.37	147.14	---
EW-2	03/05/2009	260	5.8	<1.0	8.4	30	38	---	---	---	---	157.51	8.35	149.16	---
EW-2	05/27/2009	580	27	2.4	25	79	71	---	---	---	---	157.51	10.83	146.68	---
EW-2	12/28/2009	780	31	1.6	31	67	51	270	<2.0	<2.0	<2.0	157.51	10.55	146.96	---
EW-2	06/02/2010	1,400	45	3.0	110	160	53	---	---	---	---	157.51	10.63	146.88	---
EW-2	12/28/2010	770	29	1.3	58	82	48	310	<2.0	<2.0	<2.0	157.51	9.57	147.94	---
EW-2	06/20/2011	180	12	<0.50	15	8.3	14	---	---	---	---	157.51	10.98	146.53	---
EW-2	12/13/2011	260	17.4	<0.500	16.3	10.8	12.1	63.3	<0.500	<0.500	<0.500	157.51	11.21	146.30	---

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B

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

SPH = Separate-phase hydrocarbon

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

ft = Feet

MSL = Mean sea level

<x = Not detected at reporting limit x

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
2120 MONTANA 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> ( $\mu\text{g/L}$ )	<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 Water</i> (ft TOC)	<i>GW Elevation</i> (ft MSL)	<i>SPH Thickness</i> (ft)
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--- = Not analyzed or available

b = SPHs encountered during purge

c = Sample analyzed once within hold time, but the analyte concentrations all exceeded the instrument working ranges. The sample was diluted and re-analyzed out of hold time. The diluted analysis is reported because it more accurately reflects the concentrations present.

i = Several results were above the instrument calibration range and should be considered estimated values. Results from the different VOA vials were not consistent; therefore the highest results were reported.

j = Concentration exceeds the calibration range and therefore result is semi-quantitative.

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

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

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

When SPHs are present, GW elevation is adjusted using the relation:

Corrected GW elevation = TOC - Depth to water + (0.8 x SPH thickness).

Site wells surveyed February 12, 2002 and June 26, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells MW-1 and TBW-N surveyed September 23, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells EW-1 and EW-2 surveyed July 7, 2006 by Virgil Chavez Land Surveying of Vallejo, CA.

APPENDIX A

BLAINE TECH SERVICES, INC. -  
FIELD NOTES



## WELL GAUGING DATA

Project # 111213-0w1 Date 12/13/11 Client Shell

Site 2120 Montana Street, 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>TOC</u>	Notes
MW-1	1005	2					12.17	27.04		
MW-2	1015	2					12.88	19.86		
MW-3	0930	2					12.00	20.02		
MW-4	0950	4					14.04	19.86		
MW-5	0945	2					13.00	19.50		
TRW-N	0935	2					9.93	12.50		
EW-1	1000	4					12.62	25.70		
EW-2	0955	4					11.21	26.31	↓	

# SHELL WELL MONITORING DATA SHEET

BTS #: 111213-DW1	Site: 2120 Montana Street, Oakland
Sampler: DW	Date: 12/13/11
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 27.04	Depth to Water (DTW): 12.17
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.14

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

2.4 (Gals.) X 3 = 7.2 Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1313	65.5	7.05	925.8	64	2.4	
1317	65.8	6.83	925.2	64	4.8	
1321	65.5	6.79	916.4	50	7.2	

Did well dewater? Yes  No  Gallons actually evacuated: 7.2

Sampling Date: 12/13/11 Sampling Time: 1330 Depth to Water: 13.71

Sample I.D.: MW-1 Laboratory: Test America Other \_\_\_\_\_

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

1st 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
D.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 111213-DW1	Site: 2120 Montana Street, Oakland
Sampler: DW	Date: 12/13/11
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 19.86	Depth to Water (DTW): 12.88
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.28	

Purge Method: (Bailer)      Waterra      Sampling Method: (Bailer)

Disposable Bailer      Peristaltic  
 Positive Air Displacement      Extraction Pump  
 Electric Submersible      Other \_\_\_\_\_

Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: \_\_\_\_\_

$1.1 \text{ (Gals.)} \times 3 = 3.3 \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1350	64.3	7.27	873.4	130	1.1	
1352	64.2	6.92	892.3	112	2.2	
1354	64.1	6.88	900.4	160	3.3	

Did well dewater?    Yes    (No)      Gallons actually evacuated: 3.3

Sampling Date: 12/13/11    Sampling Time: 1400    Depth to Water: 14.06

Sample I.D.: MW-2      Laboratory: (Test America)    Other \_\_\_\_\_

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

IB I.D. (if applicable): @ \_\_\_\_\_      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
D.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 11213-DW1	Site: 2120 Montana Street, Oakland
Sampler: DW	Date: 12/13/11
Well I.D.: MW-3	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): 20.02	Depth to Water (DTW): 12.00
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]: 13.60	

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$1.3 \text{ (Gals.)} \times 3 = 3.9 \text{ Gals.}$ I Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1040	64.8	6.41	662.8	420	1.3	
1042	67.0	6.46	649.7	467	2.6	
1044	67.5	6.53	645.6	71000	3.9	

Did well dewater?    Yes    No      Gallons actually evacuated:    3.9

Sampling Date: 12/13/11    Sampling Time: 1055    Depth to Water: 13.21

Sample I.D.: MW-3      Laboratory: Test America    Other \_\_\_\_\_

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

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

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

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

## SHELL WELL MONITORING DATA SHEET

BTS #: 111213-DW1	Site: 2120 Montara Street, Oakland
Sampler: DW	Date: 12/13/11
Well I.D.: MW-4	Well Diameter: 2 3 ④ 6 8
Total Well Depth (TD): 19.86	Depth to Water (DTW): 14.04
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.20	

Purge Method: Bailer      Waterra      Sampling Method: Bailer

Disposable Bailer      Peristaltic      Disposable Bailer

Positive Air Displacement      Extraction Pump      Extraction Port

Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing

Other: \_\_\_\_\_

3.8 (Gals.) X 3 = 11.4 Gals.

1 Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1428	63.1	7.46	709.7	139	3.8	
1432	63.9	7.14	671.6	61	7.6	
1437	63.8	7.10	667.4	47	11.4	

Did well dewater? Yes  No      Gallons actually evacuated: 11.4

Sampling Date: 12/13/11      Sampling Time: 1500      Depth to Water: 14.89

Sample I.D.: MW-4      Laboratory: Test America      Other \_\_\_\_\_

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

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

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

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

## SHELL WELL MONITORING DATA SHEET

BTS #: 111213-DW1	Site: 2120 Montana Street, Oakland
Sampler: DW	Date: 12/13/11
Well I.D.: MW-5	Well Diameter: ② 3 4 6 8
Total Well Depth (TD): 19.50	Depth to Water (DTW): 13.00
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]: 14.30	

Purge Method: Bailer      Waterra      Sampling Method: Bailer

Disposable Bailer       Peristaltic  
 Positive Air Displacement       Extraction Pump  
 Electric Submersible      Other: \_\_\_\_\_

Other: \_\_\_\_\_

1.0 (Gals.) X 3 = 3.0 Gals.

1 Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1134	62.7	7.08	725.4	71000	1.0	
1135	63.3	6.86	719.4	71000	2.0	
1136	63.2	6.83	718.3	71000	3.0	

Did well dewater?    Yes    No      Gallons actually evacuated: 3.0

Sampling Date: 12/13/11    Sampling Time: 1145    Depth to Water: 13.05

Sample I.D.: MW-5      Laboratory: Test America    Other: \_\_\_\_\_

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

1st 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
	D.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	

## SHELL WELL MONITORING DATA SHEET

BTS #: 111213-DW1	Site: 2120 Montana Street, Oakland
Sampler: DW	Date: 12/13/11
Well I.D.: TBW-N	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 12.50	Depth to Water (DTW): 9.93
Depth to Free Product: <del>12.50</del> <sup>(DW)</sup>	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]: 10.44	

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

$1.8 \text{ (Gals.)} \times 3 = 5.4 \text{ Gals.}$   
 1 Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1105	64.0	6.76	1058	71000	1.8	
1108	64.7	6.63	1048	71000	3.6	
1111	64.9	6.60	1045	71000	5.4	

Did well dewater?    Yes    No      Gallons actually evacuated: 5.4

Sampling Date: 12/13/11    Sampling Time: 1115    Depth to Water: 10.07

Sample I.D.: TBW-N      Laboratory: Test America    Other \_\_\_\_\_

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

EB I.D. (if applicable): @ \_\_\_\_\_      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
	D.R.P. (if req'd):	mV	mV	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 111213-DW1	Site: 2120 Montana Street, Oakland
Sampler: DW	Date: 12/13/11
Well I.D.: EW-1	Well Diameter: 2 3 ④ 6 8
Total Well Depth (TD): 25.70	Depth to Water (DTW): 12.62
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]: 15.24

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

8.5 (Gals.) X	3	= 25.5 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1426	68.9	7.13	762	152	8.5	
1429	68.8	7.15	776	132	17.0	
1430	68.8	7.18	783	128	25.5	

Did well dewater? Yes No Gallons actually evacuated: 25.5

Sampling Date: 12/13/11 Sampling Time: 1435 Depth to Water: 13.92

Sample I.D.: EW-1 Laboratory: Test America Other \_\_\_\_\_

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

1.B 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
D.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV



## SHELL WELL MONITORING DATA SHEET

BTS #: 11213-DW1	Site: 2120 Montara Street, Oakland
Sampler: DW	Date: 12/13/11
Well I.D.: EW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 26.31	Depth to Water (DTW): 11.21
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]: 14.23	

Purge Method: Bailer      Waterra      Sampling Method: Bailer

Disposable Bailer      Peristaltic      Disposable Bailer

Positive Air Displacement      Extraction Pump      Extraction Port

Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing

Other: \_\_\_\_\_

9.8 (Gals.) X 3 = 29.4 Gals.

1 Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1444	68.3	7.02	763	137	9.8	odor
1446	68.3	7.03	765	142	19.6	" "
1448	68.3	7.05	766	150	29.4	

Did well dewater?    Yes    No      Gallons actually evacuated: 29.4

Sampling Date: 12/13/11    Sampling Time: 1450    Depth to Water: 12.07

Sample I.D.: EW-2      Laboratory: Test America    Other \_\_\_\_\_

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

B 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
R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

INCIDENT #

787457TU

ADDRESS

2120 Montana Street, Oakland, CA

DATE:

12/13/11

CITY & STATE

Oakland, CA

Well ID	Manway Cover, Type, Condition & Size				Observations Upon Arrival								Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition	Repair Date and PM Initials		
	Well Labeled / Painted Properly	Well Cap (Gripper) Condition	Well Lock Condition	Well Pad / Surface Condition	Size (inch)	Y	N	G	R	G	R	NL				G	P
MW-1	Standpipe	Flush	G	P	36	Y	N	G	R	G	R	NL	G	P		Y	N
MW-2	Standpipe	Flush	G	P	6	Y	N	G	R	G	R	NL	G	P		Y	N
MW-3	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N
MW-4	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N
MW-5	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P	1/2 tabs broken	Y	N
TBW-N	Standpipe	Flush	G	P	36	Y	N	G	R	G	R	NL	G	P	No tabs, 1/4 bolts missing	Y	N
EW-1	Standpipe	Flush	G	P	30	Y	N	G	R	G	R	NL	G	P		Y	N
EW-2	Standpipe	Flush	G	P	36	Y	N	G	R	G	R	NL	G	P		Y	N
	Standpipe	Flush	G	P		Y	N	G	R	G	R	NL	G	P		Y	N
	Standpipe	Flush	G	P		Y	N	G	R	G	R	NL	G	P		Y	N
	Standpipe	Flush	G	P		Y	N	G	R	G	R	NL	G	P		Y	N
TOTAL # CAPS REPLACED =					0	TOTAL # OF LOCKS REPLACED					0						
Condition of Soil Boring Patches or Abandoned Monitoring Wells:		G	P	N/A	If POOR, Boring Well IDs or Location Description									Y	N		
Remediation Compound Type (Check boxes that apply)		Condition of Enclosure		Condition of Area Inside Enclosure		Compound Security		Emergency Contact Info Visible		Cleaning / Repairs Recommended and Conducted			Photos of Condition	Repair Date & PM Initials			
NA		G		G		G		Y					Y	N			
Building		G		G		G		Y					Y	N			
Building w/ Fence Comp.		G		G		G		Y					Y	N			
Fenced Compound		G		G		G		Y					Y	N			
Trailer		G		G		G		Y					Y	N			
Number of Drums On-site	Does the Label Reveal the Source of the Contents	Labeled Correctly and Writing Legible		Drum Condition		Confirm Drums Related to Environmental		Drums Located to Min Business Interference		Detailed Explanation of Any Issues Resolved			Photos of Drum Condition	Date Drums Removed from Site and PM Initials			
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	N/A	Y	N			

G = Good (Acceptable) R = Replaced  
P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

\* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.  
Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Daniel Allen Blaine Tech Services  
Print or type Name of Field Personnel & Consultant Company

APPENDIX B

TEST AMERICA -  
LABORATORY REPORT

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Nashville  
2960 Foster Creighton Road  
Nashville, TN 37204  
Tel: 800-765-0980

TestAmerica Job ID: NVL2725  
Client Project/Site: SAP 135703  
Client Project Description: 2120 Montana Street, Oakland, CA

For:  
Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

Attn: Peter Schaefer



Authorized for release by:  
12/29/2011 4:26:30 PM

Ryan Fitzwater  
Project Manager  
Ryan.Fitzwater@testamericainc.com

### LINKS

Review your project  
results through

Total Access

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Sample Summary

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NVL2725-01	MW-1	Ground Water	12/13/11 13:30	12/17/11 08:15
NVL2725-02	MW-2	Ground Water	12/13/11 14:00	12/17/11 08:15
NVL2725-03	MW-3	Ground Water	12/13/11 10:55	12/17/11 08:15
NVL2725-04	MW-4	Ground Water	12/13/11 15:00	12/17/11 08:15
NVL2725-05	MW-5	Ground Water	12/13/11 11:45	12/17/11 08:15
NVL2725-06	TBW-N	Ground Water	12/13/11 11:15	12/17/11 08:15
NVL2725-07	EW-1	Ground Water	12/13/11 14:35	12/17/11 08:15
NVL2725-08	EW-2	Ground Water	12/13/11 14:50	12/17/11 08:15

## Case Narrative

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

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**Job ID: NVL2725**

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**Laboratory: TestAmerica Nashville**

### **NELAC Certification**

NELAC certifications are not held for the following analytes included in this report:

<u>Method</u>	<u>Matrix</u>	<u>Analyte</u>
CA LUFT GC/MS	Water	Gasoline Range Organics

## Definitions/Glossary

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL

TestAmerica Job ID: NVL2725

Project/Site: SAP 135703

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### Glossary

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

**Client Sample ID: MW-1**

**Lab Sample ID: NVL2725-01**

Date Collected: 12/13/11 13:30

Matrix: Ground Water

Date Received: 12/17/11 08:15

**Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	1100		50		ug/L		12/22/11 10:10	12/22/11 20:46	1.0
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4	104		70 - 130				12/22/11 10:10	12/22/11 20:46	1.0
Dibromofluoromethane	100		70 - 130				12/22/11 10:10	12/22/11 20:46	1.0
Toluene-d8	98		70 - 130				12/22/11 10:10	12/22/11 20:46	1.0
4-Bromofluorobenzene	98		70 - 130				12/22/11 10:10	12/22/11 20:46	1.0

**Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.14		0.500		ug/L		12/22/11 10:10	12/22/11 20:46	1.00
Ethylbenzene	2.55		0.500		ug/L		12/22/11 10:10	12/22/11 20:46	1.00
Toluene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 20:46	1.00
Xylenes, total	3.58		0.500		ug/L		12/22/11 10:10	12/22/11 20:46	1.00
Methyl tert-Butyl Ether	36.0		0.500		ug/L		12/22/11 10:10	12/22/11 20:46	1.00
Tertiary Butyl Alcohol	530		10.0		ug/L		12/22/11 10:10	12/22/11 20:46	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 20:46	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 20:46	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 20:46	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4	114		70 - 130				12/22/11 10:10	12/22/11 20:46	1.00
Dibromofluoromethane	97		70 - 130				12/22/11 10:10	12/22/11 20:46	1.00
Toluene-d8	102		70 - 130				12/22/11 10:10	12/22/11 20:46	1.00
4-Bromofluorobenzene	109		70 - 130				12/22/11 10:10	12/22/11 20:46	1.00

## Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

**Client Sample ID: MW-2**

**Lab Sample ID: NVL2725-02**

Date Collected: 12/13/11 14:00

Matrix: Ground Water

Date Received: 12/17/11 08:15

**Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	6000		2500		ug/L		12/22/11 10:10	12/22/11 21:48	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	100		70 - 130	12/22/11 10:10	12/22/11 21:48	50
Dibromofluoromethane	101		70 - 130	12/22/11 10:10	12/22/11 21:48	50
Toluene-d8	99		70 - 130	12/22/11 10:10	12/22/11 21:48	50
4-Bromofluorobenzene	99		70 - 130	12/22/11 10:10	12/22/11 21:48	50

**Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	21.9		0.500		ug/L		12/23/11 11:18	12/23/11 14:56	1.00
Ethylbenzene	2.98		0.500		ug/L		12/23/11 11:18	12/23/11 14:56	1.00
Toluene	2.15		0.500		ug/L		12/23/11 11:18	12/23/11 14:56	1.00
Xylenes, total	4.19		0.500		ug/L		12/23/11 11:18	12/23/11 14:56	1.00
Methyl tert-Butyl Ether	27.6		0.500		ug/L		12/23/11 11:18	12/23/11 14:56	1.00
Tertiary Butyl Alcohol	307		10.0		ug/L		12/23/11 11:18	12/23/11 14:56	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/23/11 11:18	12/23/11 14:56	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/23/11 11:18	12/23/11 14:56	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/23/11 11:18	12/23/11 14:56	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	103		70 - 130	12/23/11 11:18	12/23/11 14:56	1.00
Dibromofluoromethane	98		70 - 130	12/23/11 11:18	12/23/11 14:56	1.00
Toluene-d8	109		70 - 130	12/23/11 11:18	12/23/11 14:56	1.00
4-Bromofluorobenzene	114		70 - 130	12/23/11 11:18	12/23/11 14:56	1.00

## Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

**Client Sample ID: MW-3**

**Lab Sample ID: NVL2725-03**

**Date Collected: 12/13/11 10:55**

**Matrix: Ground Water**

**Date Received: 12/17/11 08:15**

<b>Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons</b>									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		50		ug/L		12/22/11 10:10	12/22/11 17:35	1.0
<b>Surrogate</b>									
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4	99		70 - 130				12/22/11 10:10	12/22/11 17:35	1.0
Dibromofluoromethane	102		70 - 130				12/22/11 10:10	12/22/11 17:35	1.0
Toluene-d8	99		70 - 130				12/22/11 10:10	12/22/11 17:35	1.0
4-Bromofluorobenzene	100		70 - 130				12/22/11 10:10	12/22/11 17:35	1.0
<b>Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B</b>									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 17:35	1.00
Ethylbenzene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 17:35	1.00
Toluene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 17:35	1.00
Xylenes, total	ND		0.500		ug/L		12/22/11 10:10	12/22/11 17:35	1.00
Methyl tert-Butyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 17:35	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/22/11 10:10	12/22/11 17:35	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 17:35	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 17:35	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 17:35	1.00
<b>Surrogate</b>									
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4	109		70 - 130				12/22/11 10:10	12/22/11 17:35	1.00
Dibromofluoromethane	99		70 - 130				12/22/11 10:10	12/22/11 17:35	1.00
Toluene-d8	103		70 - 130				12/22/11 10:10	12/22/11 17:35	1.00
4-Bromofluorobenzene	111		70 - 130				12/22/11 10:10	12/22/11 17:35	1.00

# Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

**Client Sample ID: MW-4**

**Lab Sample ID: NVL2725-04**

**Date Collected: 12/13/11 15:00**

**Matrix: Ground Water**

**Date Received: 12/17/11 08:15**

**Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	290		50		ug/L		12/22/11 10:10	12/22/11 18:06	1.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	100		70 - 130	12/22/11 10:10	12/22/11 18:06	1.0
Dibromofluoromethane	102		70 - 130	12/22/11 10:10	12/22/11 18:06	1.0
Toluene-d8	97		70 - 130	12/22/11 10:10	12/22/11 18:06	1.0
4-Bromofluorobenzene	98		70 - 130	12/22/11 10:10	12/22/11 18:06	1.0

**Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 18:06	1.00
Ethylbenzene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 18:06	1.00
Toluene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 18:06	1.00
Xylenes, total	ND		0.500		ug/L		12/22/11 10:10	12/22/11 18:06	1.00
Methyl tert-Butyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 18:06	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/22/11 10:10	12/22/11 18:06	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 18:06	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 18:06	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 18:06	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	111		70 - 130	12/22/11 10:10	12/22/11 18:06	1.00
Dibromofluoromethane	99		70 - 130	12/22/11 10:10	12/22/11 18:06	1.00
Toluene-d8	101		70 - 130	12/22/11 10:10	12/22/11 18:06	1.00
4-Bromofluorobenzene	109		70 - 130	12/22/11 10:10	12/22/11 18:06	1.00

# Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

**Client Sample ID: MW-5**

**Lab Sample ID: NVL2725-05**

Date Collected: 12/13/11 11:45

Matrix: Ground Water

Date Received: 12/17/11 08:15

Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	1500		50		ug/L		12/22/11 10:10	12/22/11 18:42	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	96		70 - 130				12/22/11 10:10	12/22/11 18:42	1.0
Dibromofluoromethane	104		70 - 130				12/22/11 10:10	12/22/11 18:42	1.0
Toluene-d8	99		70 - 130				12/22/11 10:10	12/22/11 18:42	1.0
4-Bromofluorobenzene	100		70 - 130				12/22/11 10:10	12/22/11 18:42	1.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.41		0.500		ug/L		12/22/11 10:10	12/22/11 18:42	1.00
Ethylbenzene	0.610		0.500		ug/L		12/22/11 10:10	12/22/11 18:42	1.00
Toluene	0.640		0.500		ug/L		12/22/11 10:10	12/22/11 18:42	1.00
Xylenes, total	1.76		0.500		ug/L		12/22/11 10:10	12/22/11 18:42	1.00
Methyl tert-Butyl Ether	2.53		0.500		ug/L		12/22/11 10:10	12/22/11 18:42	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/22/11 10:10	12/22/11 18:42	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 18:42	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 18:42	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 18:42	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	106		70 - 130				12/22/11 10:10	12/22/11 18:42	1.00
Dibromofluoromethane	101		70 - 130				12/22/11 10:10	12/22/11 18:42	1.00
Toluene-d8	103		70 - 130				12/22/11 10:10	12/22/11 18:42	1.00
4-Bromofluorobenzene	111		70 - 130				12/22/11 10:10	12/22/11 18:42	1.00

## Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

**Client Sample ID: TBW-N**

**Lab Sample ID: NVL2725-06**

**Date Collected: 12/13/11 11:15**

**Matrix: Ground Water**

**Date Received: 12/17/11 08:15**

<b>Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons</b>										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	ND		50		ug/L		12/22/11 10:10	12/22/11 19:13	1.0	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4	99		70 - 130				12/22/11 10:10	12/22/11 19:13	1.0	
Dibromofluoromethane	101		70 - 130				12/22/11 10:10	12/22/11 19:13	1.0	
Toluene-d8	98		70 - 130				12/22/11 10:10	12/22/11 19:13	1.0	
4-Bromofluorobenzene	99		70 - 130				12/22/11 10:10	12/22/11 19:13	1.0	

<b>Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B</b>										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 19:13	1.00	
Ethylbenzene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 19:13	1.00	
Toluene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 19:13	1.00	
Xylenes, total	ND		0.500		ug/L		12/22/11 10:10	12/22/11 19:13	1.00	
<b>Methyl tert-Butyl Ether</b>	<b>2.20</b>		0.500		ug/L		12/22/11 10:10	12/22/11 19:13	1.00	
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/22/11 10:10	12/22/11 19:13	1.00	
Diisopropyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 19:13	1.00	
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 19:13	1.00	
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 19:13	1.00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4	110		70 - 130				12/22/11 10:10	12/22/11 19:13	1.00	
Dibromofluoromethane	98		70 - 130				12/22/11 10:10	12/22/11 19:13	1.00	
Toluene-d8	102		70 - 130				12/22/11 10:10	12/22/11 19:13	1.00	
4-Bromofluorobenzene	110		70 - 130				12/22/11 10:10	12/22/11 19:13	1.00	

## Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

**Client Sample ID: EW-1**

**Lab Sample ID: NVL2725-07**

**Date Collected: 12/13/11 14:35**

**Matrix: Ground Water**

**Date Received: 12/17/11 08:15**

**Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	850		50		ug/L		12/22/11 10:10	12/22/11 19:44	1.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	106		70 - 130	12/22/11 10:10	12/22/11 19:44	1.0
Dibromofluoromethane	101		70 - 130	12/22/11 10:10	12/22/11 19:44	1.0
Toluene-d8	98		70 - 130	12/22/11 10:10	12/22/11 19:44	1.0
4-Bromofluorobenzene	98		70 - 130	12/22/11 10:10	12/22/11 19:44	1.0

**Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.25		0.500		ug/L		12/22/11 10:10	12/22/11 19:44	1.00
Ethylbenzene	15.4		0.500		ug/L		12/22/11 10:10	12/22/11 19:44	1.00
Toluene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 19:44	1.00
Xylenes, total	9.67		0.500		ug/L		12/22/11 10:10	12/22/11 19:44	1.00
Methyl tert-Butyl Ether	22.4		0.500		ug/L		12/22/11 10:10	12/22/11 19:44	1.00
Tertiary Butyl Alcohol	27.8		10.0		ug/L		12/22/11 10:10	12/22/11 19:44	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 19:44	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 19:44	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 19:44	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	117		70 - 130	12/22/11 10:10	12/22/11 19:44	1.00
Dibromofluoromethane	98		70 - 130	12/22/11 10:10	12/22/11 19:44	1.00
Toluene-d8	102		70 - 130	12/22/11 10:10	12/22/11 19:44	1.00
4-Bromofluorobenzene	109		70 - 130	12/22/11 10:10	12/22/11 19:44	1.00

## Client Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

**Client Sample ID: EW-2**

**Lab Sample ID: NVL2725-08**

**Date Collected: 12/13/11 14:50**

**Matrix: Ground Water**

**Date Received: 12/17/11 08:15**

**Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	260		50		ug/L		12/22/11 10:10	12/22/11 20:15	1.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	101		70 - 130	12/22/11 10:10	12/22/11 20:15	1.0
Dibromofluoromethane	102		70 - 130	12/22/11 10:10	12/22/11 20:15	1.0
Toluene-d8	98		70 - 130	12/22/11 10:10	12/22/11 20:15	1.0
4-Bromofluorobenzene	98		70 - 130	12/22/11 10:10	12/22/11 20:15	1.0

**Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	17.4		0.500		ug/L		12/22/11 10:10	12/22/11 20:15	1.00
Ethylbenzene	16.3		0.500		ug/L		12/22/11 10:10	12/22/11 20:15	1.00
Toluene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 20:15	1.00
Xylenes, total	10.8		0.500		ug/L		12/22/11 10:10	12/22/11 20:15	1.00
Methyl tert-Butyl Ether	12.1		0.500		ug/L		12/22/11 10:10	12/22/11 20:15	1.00
Tertiary Butyl Alcohol	63.3		10.0		ug/L		12/22/11 10:10	12/22/11 20:15	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 20:15	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 20:15	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 20:15	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	111		70 - 130	12/22/11 10:10	12/22/11 20:15	1.00
Dibromofluoromethane	99		70 - 130	12/22/11 10:10	12/22/11 20:15	1.00
Toluene-d8	102		70 - 130	12/22/11 10:10	12/22/11 20:15	1.00
4-Bromofluorobenzene	109		70 - 130	12/22/11 10:10	12/22/11 20:15	1.00



# QC Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

## Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons

Lab Sample ID: 11L4658-BLK1

Matrix: Water

Analysis Batch: U022642

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L4658\_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		50		ug/L		12/23/11 11:18	12/23/11 14:25	1.0
Surrogate	Blank %Recovery	Blank Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	100		70 - 130				12/23/11 11:18	12/23/11 14:25	1.0
Dibromofluoromethane	103		70 - 130				12/23/11 11:18	12/23/11 14:25	1.0
Toluene-d8	100		70 - 130				12/23/11 11:18	12/23/11 14:25	1.0
4-Bromofluorobenzene	98		70 - 130				12/23/11 11:18	12/23/11 14:25	1.0

Lab Sample ID: 11L4658-BS2

Matrix: Water

Analysis Batch: U022642

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L4658\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	500	430		ug/L		86	67 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4	111		70 - 130				
Dibromofluoromethane	100		70 - 130				
Toluene-d8	103		70 - 130				
4-Bromofluorobenzene	112		70 - 130				

Lab Sample ID: 11L4661-BLK1

Matrix: Water

Analysis Batch: U022534

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L4661\_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		50		ug/L		12/22/11 10:10	12/22/11 13:27	1.0
Surrogate	Blank %Recovery	Blank Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	100		70 - 130				12/22/11 10:10	12/22/11 13:27	1.0
Dibromofluoromethane	102		70 - 130				12/22/11 10:10	12/22/11 13:27	1.0
Toluene-d8	99		70 - 130				12/22/11 10:10	12/22/11 13:27	1.0
4-Bromofluorobenzene	99		70 - 130				12/22/11 10:10	12/22/11 13:27	1.0

Lab Sample ID: 11L4661-BS2

Matrix: Water

Analysis Batch: U022534

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L4661\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	500	480		ug/L		96	67 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4	106		70 - 130				
Dibromofluoromethane	103		70 - 130				
Toluene-d8	97		70 - 130				
4-Bromofluorobenzene	102		70 - 130				

## QC Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

### Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11L4658-BLK1

Matrix: Water

Analysis Batch: U022642

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11L4658\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.500		ug/L		12/23/11 11:18	12/23/11 14:25	1.00
Ethylbenzene	ND		0.500		ug/L		12/23/11 11:18	12/23/11 14:25	1.00
Toluene	ND		0.500		ug/L		12/23/11 11:18	12/23/11 14:25	1.00
Xylenes, total	ND		0.500		ug/L		12/23/11 11:18	12/23/11 14:25	1.00
Methyl tert-Butyl Ether	ND		0.500		ug/L		12/23/11 11:18	12/23/11 14:25	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/23/11 11:18	12/23/11 14:25	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/23/11 11:18	12/23/11 14:25	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/23/11 11:18	12/23/11 14:25	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/23/11 11:18	12/23/11 14:25	1.00

Surrogate	Blank	Blank	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4	110		70 - 130	12/23/11 11:18	12/23/11 14:25	1.00
Dibromofluoromethane	100		70 - 130	12/23/11 11:18	12/23/11 14:25	1.00
Toluene-d8	104		70 - 130	12/23/11 11:18	12/23/11 14:25	1.00
4-Bromofluorobenzene	109		70 - 130	12/23/11 11:18	12/23/11 14:25	1.00

Lab Sample ID: 11L4658-BS1

Matrix: Water

Analysis Batch: U022642

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L4658\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	52.5		ug/L		105	80 - 130
Toluene	50.0	53.2		ug/L		106	80 - 126
Xylenes, total	150	158		ug/L		106	80 - 132
Methyl tert-Butyl Ether	50.0	55.4		ug/L		111	72 - 133
Tertiary Butyl Alcohol	500	487		ug/L		97	54 - 150
Diisopropyl Ether	50.0	54.5		ug/L		109	62 - 137
Ethyl tert-Butyl Ether	50.0	55.1		ug/L		110	63 - 135
Tert-Amyl Methyl Ether	50.0	58.6		ug/L		117	63 - 135

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4	112		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8	104		70 - 130
4-Bromofluorobenzene	112		70 - 130

Lab Sample ID: 11L4658-MS1

Matrix: Water

Analysis Batch: U022642

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 11L4658\_P

Analyte	Sample	Sample	Spike Added	Matrix Spike	Matrix Spike	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Benzene	7170		2500	10000		ug/L		114	75 - 133
Ethylbenzene	842		2500	3860		ug/L		121	79 - 139
Toluene	1790		2500	4800		ug/L		120	75 - 136
Xylenes, total	1170		7500	10300		ug/L		121	74 - 141
Methyl tert-Butyl Ether	29.5		2500	2920		ug/L		116	66 - 141
Tertiary Butyl Alcohol	ND		25000	29600		ug/L		118	50 - 183
Diisopropyl Ether	ND		2500	3040		ug/L		122	54 - 147

## QC Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

### Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L4658-MS1

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total

Analysis Batch: U022642

Prep Batch: 11L4658\_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Ethyl tert-Butyl Ether	ND		2500	3020		ug/L		121	60 - 138
Tert-Amyl Methyl Ether	ND		2500	3080		ug/L		123	61 - 138
<b>Matrix Spike Matrix Spike</b>									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4	114		70 - 130						
Dibromofluoromethane	96		70 - 130						
Toluene-d8	104		70 - 130						
4-Bromofluorobenzene	112		70 - 130						

Lab Sample ID: 11L4658-MSD1

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total

Analysis Batch: U022642

Prep Batch: 11L4658\_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	7170		2500	9730		ug/L		102	75 - 133	3	17
Ethylbenzene	842		2500	3700		ug/L		115	79 - 139	4	15
Toluene	1790		2500	4610		ug/L		113	75 - 136	4	15
Xylenes, total	1170		7500	9780		ug/L		115	74 - 141	5	15
Methyl tert-Butyl Ether	29.5		2500	2740		ug/L		109	66 - 141	6	16
Tertiary Butyl Alcohol	ND		25000	27500		ug/L		110	50 - 183	7	32
Diisopropyl Ether	ND		2500	2840		ug/L		114	54 - 147	7	19
Ethyl tert-Butyl Ether	ND		2500	2810		ug/L		113	60 - 138	7	19
Tert-Amyl Methyl Ether	ND		2500	2880		ug/L		115	61 - 138	7	15
<b>Matrix Spike Dup Matrix Spike Dup</b>											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4	111		70 - 130								
Dibromofluoromethane	96		70 - 130								
Toluene-d8	104		70 - 130								
4-Bromofluorobenzene	113		70 - 130								

Lab Sample ID: 11L4661-BLK1

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total

Analysis Batch: U022534

Prep Batch: 11L4661\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 13:27	1.00
Ethylbenzene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 13:27	1.00
Toluene	ND		0.500		ug/L		12/22/11 10:10	12/22/11 13:27	1.00
Xylenes, total	ND		0.500		ug/L		12/22/11 10:10	12/22/11 13:27	1.00
Methyl tert-Butyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 13:27	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/22/11 10:10	12/22/11 13:27	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/22/11 10:10	12/22/11 13:27	1.00
<b>Blank Blank</b>									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4	110		70 - 130	12/22/11 10:10	12/22/11 13:27	1.00			
Dibromofluoromethane	99		70 - 130	12/22/11 10:10	12/22/11 13:27	1.00			
Toluene-d8	103		70 - 130	12/22/11 10:10	12/22/11 13:27	1.00			
4-Bromofluorobenzene	110		70 - 130	12/22/11 10:10	12/22/11 13:27	1.00			

## QC Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

### Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L4661-BS1

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total

Analysis Batch: U022534

Prep Batch: 11L4661\_P

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Benzene	50.0	51.5		ug/L		103	80 - 121
Ethylbenzene	50.0	51.9		ug/L		104	80 - 130
Toluene	50.0	52.1		ug/L		104	80 - 126
Xylenes, total	150	157		ug/L		104	80 - 132
Methyl tert-Butyl Ether	50.0	53.3		ug/L		107	72 - 133
Tertiary Butyl Alcohol	500	518		ug/L		104	54 - 150
Diisopropyl Ether	50.0	52.9		ug/L		106	62 - 137

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4	112		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8	103		70 - 130
4-Bromofluorobenzene	111		70 - 130

Lab Sample ID: 11L4661-MS1

Client Sample ID: MW-2

Matrix: Water

Prep Type: Total

Analysis Batch: U022534

Prep Batch: 11L4661\_P

Analyte	Sample	Sample	Spike Added	Matrix Spike	Matrix Spike	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Benzene	22.5		2500	3130		ug/L		124	75 - 133
Ethylbenzene	ND		2500	3140		ug/L		126	79 - 139
Toluene	ND		2500	3160		ug/L		126	75 - 136
Xylenes, total	ND		7500	9480		ug/L		126	74 - 141
Methyl tert-Butyl Ether	28.0		2500	3160		ug/L		125	66 - 141
Tertiary Butyl Alcohol	ND		25000	30800		ug/L		123	50 - 183
Diisopropyl Ether	ND		2500	3070		ug/L		123	54 - 147

Surrogate	Matrix Spike		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4	118		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8	103		70 - 130
4-Bromofluorobenzene	112		70 - 130

Lab Sample ID: 11L4661-MSD1

Client Sample ID: MW-2

Matrix: Water

Prep Type: Total

Analysis Batch: U022534

Prep Batch: 11L4661\_P

Analyte	Sample	Sample	Spike Added	Matrix Spike Dup	Matrix Spike Dup	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	22.5		2500	3210		ug/L		128	75 - 133	3	17
Ethylbenzene	ND		2500	3250		ug/L		130	79 - 139	3	15
Toluene	ND		2500	3280		ug/L		131	75 - 136	4	15
Xylenes, total	ND		7500	9760		ug/L		130	74 - 141	3	15
Methyl tert-Butyl Ether	28.0		2500	3210		ug/L		127	66 - 141	2	16
Tertiary Butyl Alcohol	ND		25000	29800		ug/L		119	50 - 183	3	32
Diisopropyl Ether	ND		2500	3220		ug/L		129	54 - 147	5	19

Surrogate	Matrix Spike Dup		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4	113		70 - 130

# QC Sample Results

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11L4661-MSD1

Matrix: Water

Analysis Batch: U022534

Client Sample ID: MW-2

Prep Type: Total

Prep Batch: 11L4661\_P

Surrogate	Matrix Spike Dup		Limits
	%Recovery	Qualifier	
Dibromofluoromethane	94		70 - 130
Toluene-d8	104		70 - 130
4-Bromofluorobenzene	111		70 - 130

## QC Association Summary

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

### GCMS Volatiles

#### Analysis Batch: U022534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L4661-BLK1	Method Blank	Total	Water	SW846 8260B	11L4661_P
11L4661-BLK1	Method Blank	Total	Water	CA LUFT GC/MS	11L4661_P
11L4661-BS1	Lab Control Sample	Total	Water	SW846 8260B	11L4661_P
11L4661-BS2	Lab Control Sample	Total	Water	CA LUFT GC/MS	11L4661_P
11L4661-MS1	MW-2	Total	Water	SW846 8260B	11L4661_P
11L4661-MSD1	MW-2	Total	Water	SW846 8260B	11L4661_P
NVL2725-01	MW-1	Total	Ground Water	SW846 8260B	11L4661_P
NVL2725-01	MW-1	Total	Ground Water	CA LUFT GC/MS	11L4661_P
NVL2725-02	MW-2	Total	Ground Water	CA LUFT GC/MS	11L4661_P
NVL2725-03	MW-3	Total	Ground Water	SW846 8260B	11L4661_P
NVL2725-03	MW-3	Total	Ground Water	CA LUFT GC/MS	11L4661_P
NVL2725-04	MW-4	Total	Ground Water	SW846 8260B	11L4661_P
NVL2725-04	MW-4	Total	Ground Water	CA LUFT GC/MS	11L4661_P
NVL2725-05	MW-5	Total	Ground Water	SW846 8260B	11L4661_P
NVL2725-05	MW-5	Total	Ground Water	CA LUFT GC/MS	11L4661_P
NVL2725-06	TBW-N	Total	Ground Water	SW846 8260B	11L4661_P
NVL2725-06	TBW-N	Total	Ground Water	CA LUFT GC/MS	11L4661_P
NVL2725-07	EW-1	Total	Ground Water	SW846 8260B	11L4661_P
NVL2725-07	EW-1	Total	Ground Water	CA LUFT GC/MS	11L4661_P
NVL2725-08	EW-2	Total	Ground Water	SW846 8260B	11L4661_P
NVL2725-08	EW-2	Total	Ground Water	CA LUFT GC/MS	11L4661_P

#### Analysis Batch: U022642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L4658-BLK1	Method Blank	Total	Water	SW846 8260B	11L4658_P
11L4658-BLK1	Method Blank	Total	Water	CA LUFT GC/MS	11L4658_P
11L4658-BS1	Lab Control Sample	Total	Water	SW846 8260B	11L4658_P
11L4658-BS2	Lab Control Sample	Total	Water	CA LUFT GC/MS	11L4658_P
11L4658-MS1	Matrix Spike	Total	Water	SW846 8260B	11L4658_P
11L4658-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11L4658_P
NVL2725-02 - RE1	MW-2	Total	Ground Water	SW846 8260B	11L4658_P

#### Prep Batch: 11L4658\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L4658-BLK1	Method Blank	Total	Water	EPA 5030B	
11L4658-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11L4658-BS2	Lab Control Sample	Total	Water	EPA 5030B	
11L4658-MS1	Matrix Spike	Total	Water	EPA 5030B	
11L4658-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NVL2725-02 - RE1	MW-2	Total	Ground Water	EPA 5030B	

#### Prep Batch: 11L4661\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L4661-BLK1	Method Blank	Total	Water	EPA 5030B	
11L4661-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11L4661-BS2	Lab Control Sample	Total	Water	EPA 5030B	
11L4661-MS1	MW-2	Total	Water	EPA 5030B	
11L4661-MSD1	MW-2	Total	Water	EPA 5030B	
NVL2725-01	MW-1	Total	Ground Water	EPA 5030B	
NVL2725-02	MW-2	Total	Ground Water	EPA 5030B	
NVL2725-03	MW-3	Total	Ground Water	EPA 5030B	
NVL2725-04	MW-4	Total	Ground Water	EPA 5030B	

## QC Association Summary

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

### GCMS Volatiles (Continued)

#### Prep Batch: 11L4661\_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NVL2725-05	MW-5	Total	Ground Water	EPA 5030B	
NVL2725-06	TBW-N	Total	Ground Water	EPA 5030B	
NVL2725-07	EW-1	Total	Ground Water	EPA 5030B	
NVL2725-08	EW-2	Total	Ground Water	EPA 5030B	

#### Analysis Batch: U022534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NVL2725-02	MW-2	Total	Ground Water	SW846 8260B	

## Lab Chronicle

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

**Client Sample ID: MW-1**

**Lab Sample ID: NVL2725-01**

Date Collected: 12/13/11 13:30

Matrix: Ground Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	JPH	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022534	12/22/11 20:46	MLG	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4661_P	12/22/11 10:10	JPH	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022534	12/22/11 20:46	MLG	TAL NSH
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	TSP	TAL NSH

**Client Sample ID: MW-2**

**Lab Sample ID: NVL2725-02**

Date Collected: 12/13/11 14:00

Matrix: Ground Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.0	11L4661_P	12/22/11 10:10	JPH	TAL NSH
Total	Analysis	CA LUFT GC/MS		50	U022534	12/22/11 21:48	MLG	TAL NSH
Total	Prep	EPA 5030B	RE1	1.00	11L4658_P	12/23/11 11:18	JPH	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U022642	12/23/11 14:56	MLG	TAL NSH
Total	Prep	EPA 5030B	RE1	1.00	11L4658_P	12/23/11 11:18	TSP	TAL NSH
Total	Analysis	SW846 8260B		50.0	U022534	12/22/11 22:19		TAL NSH

**Client Sample ID: MW-3**

**Lab Sample ID: NVL2725-03**

Date Collected: 12/13/11 10:55

Matrix: Ground Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022534	12/22/11 17:35	MLG	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4661_P	12/22/11 10:10	JPH	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022534	12/22/11 17:35	MLG	TAL NSH
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	JPH	TAL NSH

**Client Sample ID: MW-4**

**Lab Sample ID: NVL2725-04**

Date Collected: 12/13/11 15:00

Matrix: Ground Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022534	12/22/11 18:06	MLG	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4661_P	12/22/11 10:10	JPH	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022534	12/22/11 18:06	MLG	TAL NSH
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	JPH	TAL NSH



## Lab Chronicle

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

**Client Sample ID: MW-5**

**Lab Sample ID: NVL2725-05**

Date Collected: 12/13/11 11:45

Matrix: Ground Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022534	12/22/11 18:42	MLG	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4661_P	12/22/11 10:10	JPH	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022534	12/22/11 18:42	MLG	TAL NSH
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	JPH	TAL NSH

**Client Sample ID: TBW-N**

**Lab Sample ID: NVL2725-06**

Date Collected: 12/13/11 11:15

Matrix: Ground Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	JPH	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022534	12/22/11 19:13	MLG	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4661_P	12/22/11 10:10	JPH	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022534	12/22/11 19:13	MLG	TAL NSH
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	TSP	TAL NSH

**Client Sample ID: EW-1**

**Lab Sample ID: NVL2725-07**

Date Collected: 12/13/11 14:35

Matrix: Ground Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022534	12/22/11 19:44	MLG	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4661_P	12/22/11 10:10	JPH	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022534	12/22/11 19:44	MLG	TAL NSH
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	JPH	TAL NSH

**Client Sample ID: EW-2**

**Lab Sample ID: NVL2725-08**

Date Collected: 12/13/11 14:50

Matrix: Ground Water

Date Received: 12/17/11 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	JPH	TAL NSH
Total	Analysis	SW846 8260B		1.00	U022534	12/22/11 20:15	MLG	TAL NSH
Total	Prep	EPA 5030B		1.0	11L4661_P	12/22/11 10:10	JPH	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U022534	12/22/11 20:15	MLG	TAL NSH
Total	Prep	EPA 5030B		1.00	11L4661_P	12/22/11 10:10	TSP	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

## Method Summary

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

---

Method	Method Description	Protocol	Laboratory
CA LUFT GC/MS	Purgeable Petroleum Hydrocarbons		TAL NSH
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH

**Protocol References:**

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

## Certification Summary

Client: Conestoga-Rovers & Assoc. (Emeryville) / SHELL  
 Project/Site: SAP 135703

TestAmerica Job ID: NVL2725

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA - LAP	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Canada (CALA)	Canada (CALA)		3744
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

## COOLER RECEIPT



VVL2725

Cooler Received/Opened On 12/17/2011 @ 8:15

1. Tracking # 0572 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 3.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES......NO......NA

4. Were custody seals on outside of cooler?  YES...NO... NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly?  YES...NO... NA

6. Were custody papers inside cooler?  YES...NO... NA

I certify that I opened the cooler and answered questions 1-6 (initial) D.G.

7. Were custody seals on containers: YES  NO  and intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used?  Bubblewrap  Plastic bag  Peanuts  Vermiculite  Foam Insert  Paper  Other  None

9. Cooling process:  Ice  Ice-pack  Ice (direct contact)  Dry Ice  Other  None

10. Did all containers arrive in good condition (unbroken)?  YES...NO... NA

11. Were all container labels complete (#, date, signed, pres., etc)?  YES...NO... NA

12. Did all container labels and tags agree with custody papers?  YES...NO... NA

13a. Were VOA vials received?  YES...NO... NA

b. Was there any observable headspace present in any VOA vial? YES......NO... NA

14. Was there a Trip Blank in this cooler? YES......NO... NA If multiple coolers, sequence #         

I certify that I unloaded the cooler and answered questions 7-14 (initial) D.G.

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used  YES...NO... NA

16. Was residual chlorine present? YES...NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D.G.

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

18. Did you sign the custody papers in the appropriate place?  YES...NO... NA

19. Were correct containers used for the analysis requested?  YES...NO... NA

20. Was sufficient amount of sample sent in each container?  YES...NO... NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) D.G.

I certify that I attached a label with the unique LIMS number to each container (initial) D.G.

21. Were there Non-Conformance issues at login? YES......NO... Was a PIPE generated? YES......#

LAB (LOCATION)

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



Shell Oil Products Chain Of Custody Rec

NVL2725

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 240733

PO # 4 0 - 4 0 3 4 9 7 3

INCIDENT 12/29/11 23:59

SAP #

INCIDENT # APPLIES

DATE: 12/13/11

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: 2120 Montana St., Oakland State: CA GLOBAL ID NO.: T0600101805

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville PHONE NO.: 510-420-3343 E-MAIL: shelledf@croworld.com CONSULTANT PROJECT NO.: 111213-AW

SAMPLER NAME(S) (Print): Daniel Allen

LAB USE ONLY

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@croworld.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.	ANALYSIS										TEMPERATURE ON RE... T °C	Container PID Readings or Laboratory Notes					
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH - GRO, Purgeable (8260B)	TPH - DRO - Extractable (8016M)	TPHlg (8016M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 6 OXYS (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)			EDB (8260B)	Ethanol (8260B)	Methanol (8016M)		
1	MW-1	12/13/11	1330	WG	X					3	X																
2	MW-2	12/13/11	1400	WG	X					3	X																
3	MW-3	12/13/11	1055	WG	X					3	X			X									X				
4	MW-4	12/13/11	1500	WG	X					3	X			X									X				
5	MW-5	12/13/11	1145	WG	X					3	X			X									X				
6	TRW-N	12/13/11	1115	WG	X					3	X					X							X				
7	EW-1	12/13/11	1435	WG	X					3	X			X									X				
8	EW-2	12/13/11	1450	WG	X					3	X			X									X				

Relinquished by: (Signature) <i>Daniel Allen</i>	Received by: (Signature) <i>Daniel Allen</i>	Date: 12/13/11	Time: 1645
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>David Taylor</i>	Date: 12/16/11	Time: 1000
Relinquished by: (Signature) <i>David Taylor</i> 12-16-11 16:00	Received by: (Signature) <i>[Signature]</i> A-ASH	Date: 12/17/11	Time: 0815 3.1

Page 26 of 31 12/29/2011

**COOLER RECEIPT**



Cooler Received/Opened On 12/17/2011 @ 8:15

NVL2716

1. Tracking # 0572 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 3.1 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA
4. Were custody seals on outside of cooler? YES...NO...NA  
If yes, how many and where: 1 front
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) J.G.

7. Were custody seals on containers: YES NO and Intact YES...NO...NA  
Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA
- 13a. Were VOA vials received? YES...NO...NA *sample - 15 time on vial.*
- b. Was there any observable headspace present in any VOA vial? YES...NO...NA
14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) J.G.

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
- b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) J.G.

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) J.G.

I certify that I attached a label with the unique LIMS number to each container (initial) J.G.

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# \_\_\_\_\_



# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

CALSCIENCE ( )

SPL Houston ( )

XENCO ( )

TEST AMERICA (IRVINE)

OTHER ( )

Please Check Appropriate Box:

ENV. SERVICES  MOTIVA RETAIL  SHELL RETAIL

MOTIVA SDR&M  CONSULTANT  LUBES

SHELL PIPELINE  OTHER ( )

Print/Bill To Contact Name: 240781 Peter Schaefer

INCIDENT # (ENV SERVICES) 9 7 0 9 3 3 9 7

PO # SAP #

1 2 9 4 4 9

CHECK IF NO INCIDENT # APPLIES

DATE: 12-13-11

PAGE: 1 of 2

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City State GLOBAL ID NO.: 2703 Martin Luther King Jr. Way, Oakland CA T0600101876

ADDRESS: 1680 Rogers Avenue, San Jose, CA

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

PHONE NO.: 510-420-3343

E-MAIL: ShellEDF@CRAWorld.com Shell-US-LabDataManagement@CRAworld.com

CONSULTANT PROJECT NO.: 240781-95-11.02

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

SAMPLER NAME(S) (Print): Ben Panell Greg Roberts

LAB USE ONLY

TELEPHONE: (310) 885-4455 x 108 FAX: (310) 637-5802 E-MAIL: lking@blainetech.com

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:

1) Please upload the "CRA EQUIS 4-file EDD" to the CRA Website (<http://cralabeddupload.craworld.com/equis/default.aspx>) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

Copy final report to Shell.Lab.Billing@craworld.com, ShellEDF@craworld.com, Shell-US-LabDataManagement@CRAworld.com, and pschaefer@CRAworld.com

Email invoice to Shell.Lab.Billing@craworld.com

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

LAB USE ONLY	SAMPLE ID						PRESERVATIVE					NO. OF CONT.	TPH-GRO, Purgeable (8280B)	TPH-DRO, Extractable (8016M)	BTEX (8280B)	BTEX + MTBE (8280B)	BTEX + MTBE + TBA (8280B)	BTEX + 6 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8280B	VOCs Full list (8280B)	Single Compound: (8280B)	1,2 DCA (8280B)	EDB (8280B)	Ethanol (8280B)	Methanol (8016B)	TEMPERATURE ON RECF	Container PID Readings or Laboratory Notes
	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	HCL	HNO3	H2SO4	NONE	OTHER															
	WG	11213-8PZ	12-13-11	GR	MW-4	1450	WG	X																		
2	WG	11213-8PZ	12-13-11	GR	MW-5	1530	WG	X																		
3	WG	11213-8PZ	12-13-11	BP	MW-6	1500	WG	X																		
4	WG	11213-8PZ	12-13-11	BP	MW-7	1415	WG	X																		
5	WG	11213-8PZ	12-13-11	GR	MW-8	1420	WG	X																		
6	WG	11213-8PZ	12-13-11	BP	MW-9	1330	WG	X					X													
7	WG	11213-8PZ	12-13-11	BP	MW-10	1315	WG	X					X													
8	WG	11213-8PZ	12-13-11	BP	MW-11	1300	WG	X					X													
9	WG	11213-8PZ	12-13-11	BP	MW-12	1150	WG	X					X													
10	WG	11213-8PZ	12-13-11	BP	MW-14	1400	WG	X					X													

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i> (sample custodian)	Date: 12-13-11	Time: 1630
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 12/16/11	Time: 1000
Relinquished by: (Signature) <i>[Signature]</i> 12-16-11 16:00	Received by: (Signature) <i>[Signature]</i>	Date: 12/17/11	Time: 0815 3.1

LAB (LOCATION)

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



Shell Oil Products Chain Of Custody Rec

NVL2716

12/29/11 23:56

Please Check Appropriate Box:

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

Print Bill To Contact Name: 240781 Peter Schaefer

INCIDENT # (ENV SERVICES) 9 7 0 9 3 3 9 7

PO # \_\_\_\_\_ SAP # \_\_\_\_\_

DATE: 12-13-11

PAGE: 2 of 2

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City 2703 Martin Luther King Jr. Way, Oakland CA

GLOBAL ID NO.: T0600101876

ADDRESS: 1680 Rogers Avenue, San Jose, CA

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

PHONE NO.: 510-420-3343

E-MAIL: ShellEDF@CRAWorld.com

CONSULTANT PROJECT NO.: 240781-95-11.02

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

SAMPLER NAME(S) (Print): Ben Powell Greg Roberts

TELEPHONE: (310) 885-4455 x 108

FAX: (310) 637-5802

E-MAIL: lking@blainetech.com

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:

1) Please upload the "CRA EQUIS 4-file EDD" to the CRA Website (http://cralabupload.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

Copy final report to Shell.Lab.Billing@craworld.com, ShellEDF@craworld.com, Shell-US-LabDataManagement@CRAworld.com, and pschaefer@CRAWorld.com

Email invoice to Shell.Lab.Billing@craworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TEMPERATURE ON RECE
Container PID Readings or Laboratory Notes

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

LAB USE ONLY	SAMPLE ID				TIME	MATRIX	PRESERVATIVE					NO. OF CONT.	TPH-GRO, Purgable (8260B)	TPH-DRO, Extractable (8016M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 6 OXYs (MTBE, TBA, DIPE, TAME, ETBE) (8260B)	VOCs Full list (8260B)	Single Compound: (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8016B)					
	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID			HCL	HNO3	H2SO4	NONE	OTHER																		
	WG	12-13-11	GR	V-1																									
	11Z13BPZ	12-13-11	GR	V-1	1228	WG	X					3	X	X															
	11Z13BPZ	12-13-11	BD	V-2		WG	X					3	X	X															

Relinquished by: (Signature) *B. Powell*

Received by: (Signature) *B. Powell (sample custodian)*

Date: 12-13-11 Time: 1630

Relinquished by: (Signature) *[Signature]*

Received by: (Signature) *Geoffrey Taylor*

Date: 12/16/11 Time: 1000

Relinquished by: (Signature) *Geoffrey Taylor 12-16-11 10:08*

Received by: (Signature) *[Signature]*

Date: 12/17/11 Time: 0815 3.1

12/29/2011 Page 29 of 31



Cooler Received/Opened On 12/17/2011 @ 0815

1. Tracking # 0362 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 0.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JG

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 3

I certify that I unloaded the cooler and answered questions 7-14 (initial) JG

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JG

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

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JG

I certify that I attached a label with the unique LIMS number to each container (initial) JG

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 101978

## COOLER RECEIPT FORM

NVL2678  
01/04/12 23:59

Cooler Received/Opened On 12/17/2011 @ 8:15

1. Tracking # 0373 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 0.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES......NO...NA

4. Were custody seals on outside of cooler? YES......NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES......NO...NA

6. Were custody papers inside cooler? YES......NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) J.G.

7. Were custody seals on containers: YES  NO and Intact YES......NO...NA

Were these signed and dated correctly? YES......NO...NA

8. Packing mat'l used?  Bubblewrap  Plastic bag  Peanuts  Vermiculite  Foam Insert  Paper  Other  None

9. Cooling process:  Ice  Ice-pack  Ice (direct contact)  Dry ice  Other  None

10. Did all containers arrive in good condition (unbroken)? YES......NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES......NO...NA

12. Did all container labels and tags agree with custody papers? YES......NO...NA

13a. Were VOA vials received? YES......NO...NA

b. Was there any observable headspace present in any VOA vial? YES......NO...NA

14. Was there a Trip Blank in this cooler? YES......NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (initial) J.G.

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES......NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES......NO...NA

16. Was residual chlorine present? YES......NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) J.G.

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

18. Did you sign the custody papers in the appropriate place? YES......NO...NA

19. Were correct containers used for the analysis requested? YES......NO...NA

20. Was sufficient amount of sample sent in each container? YES......NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) J.G.

I certify that I attached a label with the unique LIMS number to each container (initial) J.G.

21. Were there Non-Conformance Issues at login? YES......NO... Was a PIPE generated? YES......NO... # 61978