



**CONESTOGA-ROVERS
& ASSOCIATES**

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TRANSMITTAL

DATE: February 8, 2012 REFERENCE NO.: 240894
PROJECT NAME: 1800½ Powell Street, Emeryville

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

RECEIVED

3:44 pm, Feb 15, 2012

Alameda County
Environmental Health

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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 contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Au Energy LLC (property owner), c/o Nick Goyle, Vintners Distributors, Inc., 41805
Albrae Street, 2nd Floor, Fremont, CA 94538

Completed by: Peter Schaefer Signed: 

Filing: **Correspondence File**



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

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

Re: Shell-branded Service Station
1800½ Powell Street
Emeryville, California
SAP Code 135266
Incident No. 98995349
ACEH Case No. RO0000254

Dear Mr. Wickham:

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is located below the "Sincerely," text.

Denis L. Brown
Senior Program Manager



GROUNDWATER MONITORING REPORT - FOURTH QUARTER 2011

**SHELL-BRANDED SERVICE STATION
1800¹/₂ POWELL STREET
EMERYVILLE, CALIFORNIA**

**SAP CODE 135266
INCIDENT NO. 98995349
AGENCY NO. RO0000254**

**FEBRUARY 8, 2012
REF. NO. 240894 (6)**

This report is printed on recycled paper.

**Prepared by:
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& 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	1800½ Powell Street, Emeryville
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.	RO0000254
Shell SAP Code	135266
Shell Incident No.	98995349

Date of most recent agency correspondence was October 11, 2011 (electronic).

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT ACTIVITIES

As detailed in CRA's January 13, 2012 letter, during November 2011, CRA attempted to reinstall groundwater monitoring well S-9. Based on utility locations marked by Underground Service Alert member organizations and a private utility locator retained by CRA, CRA could not find any possible location to safely install a replacement well, and encroaching utilities were too close to the current well location to allow the well to be reinstalled safely.

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site. Following a review of this data, Blaine resampled selected wells during the first quarter of 2012. These activities are discussed below.

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

2.2 CURRENT FINDINGS

Groundwater Flow Direction	Predominantly southerly
Hydraulic Gradient	Variable
Depth to Water	8.60 to 10.60 feet below top of well casing

2.3 DISCUSSION

Based on the total petroleum hydrocarbons as diesel (TPHd) detections in fourth quarter 2011 groundwater samples from wells S-10, S-12, S-13, and S-14, Blaine resampled site wells for TPHd analysis and obtained split samples from wells S-10 and S-12 for hydrocarbon fingerprinting. A comparison of the fourth quarter 2010, fourth quarter 2011, and first quarter 2012 analytical results is presented in the following table.

<i>Well ID</i>	<i>TPHd Concentration Fourth Quarter 2010 (µg/L)</i>	<i>TPHd Concentration Fourth Quarter 2011 (µg/L)</i>	<i>TPHd Concentration First Quarter 2012 (µg/L)</i>
S-10	900	10,100	5,700
S-12	480	15,600	1,800
S-13	650	9,100	1,200
S-14	540	7,610	1,400

µg/L = Micrograms per liter

Shell reviewed the TPHd chromatograms from the fourth quarter 2011 sampling event and concluded that there is no evidence of diesel (either fresh or weathered) in the samples. The chromatograms show that there is a trace of weathered gasoline in the samples, but the majority of the hydrocarbon is in the motor oil range and also extends beyond the motor oil range. The chromatograms do not show a typical motor oil hydrocarbon pattern, and the detected TPHd-range hydrocarbons appear to be composed of heavy hydrocarbons which can include tar and other heavy residues. The chromatograms and a diesel standard are presented on Figure 3.

A land use survey detailed in Geostrategies Inc.'s April 29, 1991 *Site Update* states that the site is built on fill. Filling began in 1884 on waterfront property owned by the Paraffine Company (Paraffine) and was terminated in 1969. Based on available log data, the fill material at the Shell-branded Service Station site extends to an approximate depth of at least 12 to 15 feet below grade and appears to be continuous across the site. The fill materials reportedly include industrial refuse, rip-rap, concrete blocks, and imported clayey and sandy soil. Products manufactured by Paraffine included linoleum and other hard floor coverings, roofing and building materials, paints, varnishes, lacquers, and enamels. Paraffine's facilities included aboveground storage tanks that were removed when they closed the facility in the 1960s. These previous site uses are likely the source of the heavier hydrocarbons observed in groundwater.

2.4 PROPOSED ACTIVITIES

Hydrocarbon fingerprinting of the split samples obtained from wells S-10 and S-12 is pending and results will be provided under separate cover.

Blaine will gauge and sample wells according to the established monitoring program for this site. This site is monitored annually during the fourth quarter, and CRA will issue a groundwater monitoring report annually following the sampling event.

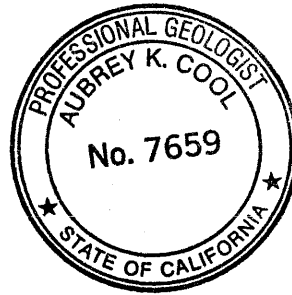
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



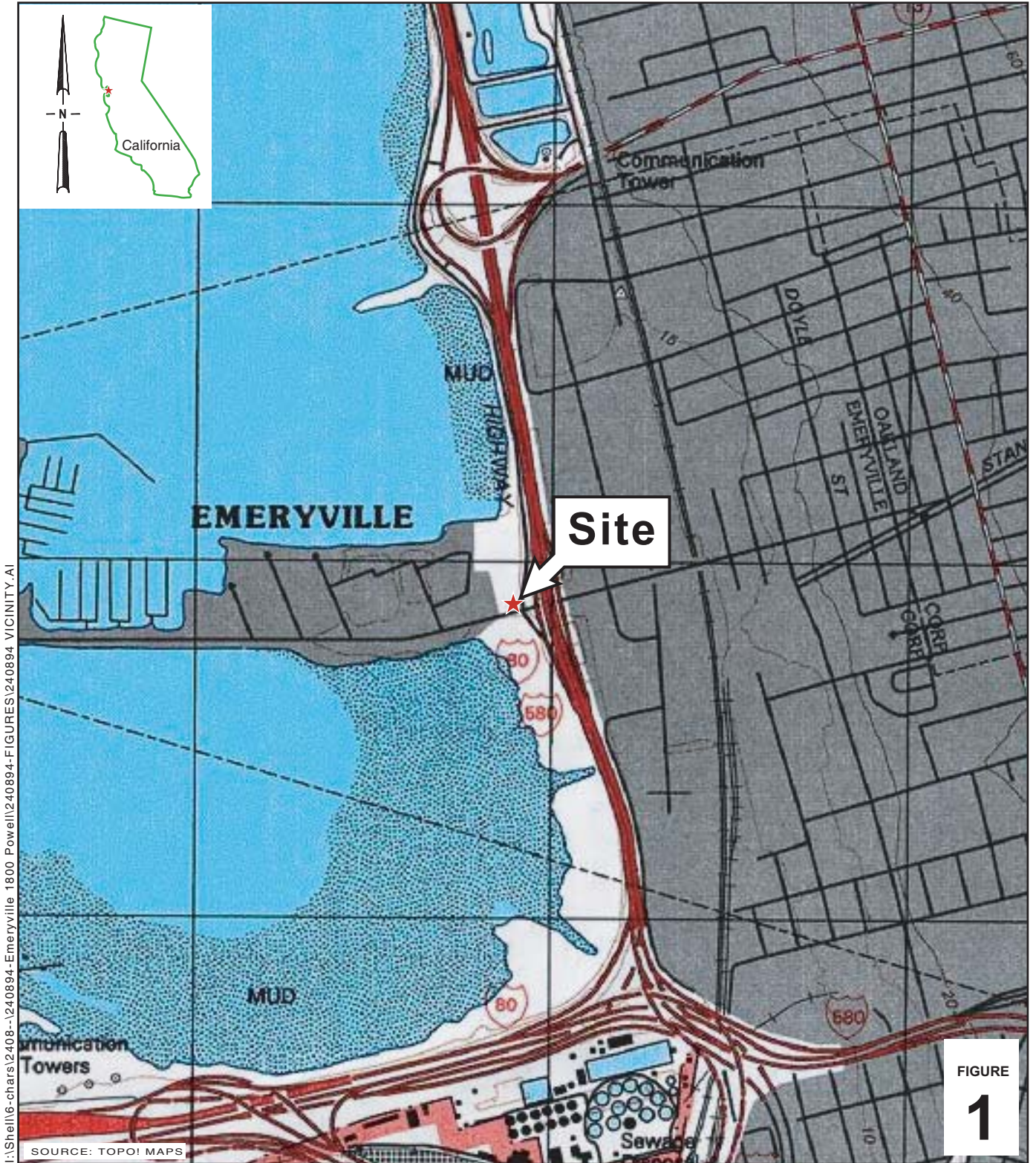
Peter Schaefer, CHG, CEG



Aubrey K. Cool, PG



FIGURES



I:\Shell\6-chars\2408--1240894-Emeryville_1800_Powell\240894-FIGURES\240894 VICINITY.AI

SOURCE: TOPOI MAPS

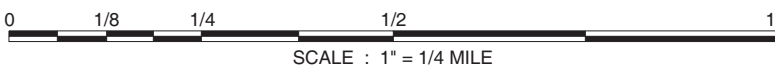


FIGURE
1

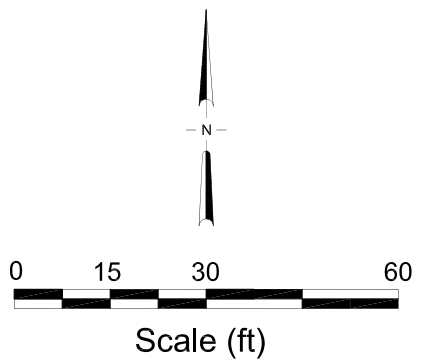
Shell-branded Service Station

1800 1/2 Powell Street
Emeryville, California



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Vicinity Map



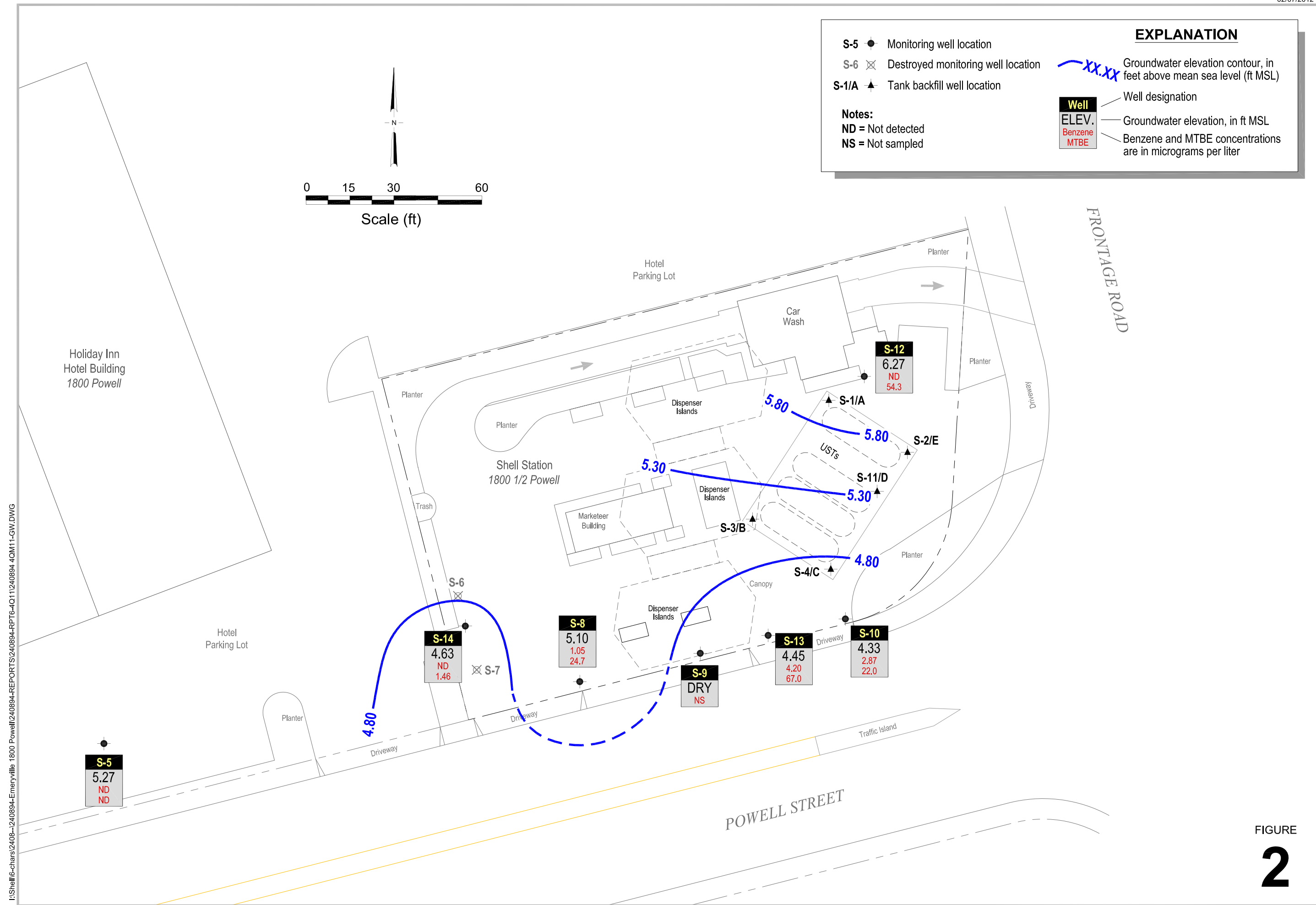
EXPLANATION

- S-5 ● Monitoring well location
- S-6 ⊗ Destroyed monitoring well location
- S-1/A ▲ Tank backfill well location

Notes:
 ND = Not detected
 NS = Not sampled

Well
 ELEV. Groundwater elevation, in ft MSL
 Benzene Benzene and MTBE concentrations are in micrograms per liter
 MTBE

xx.xx Groundwater elevation contour, in feet above mean sea level (ft MSL)



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FIGURE 2

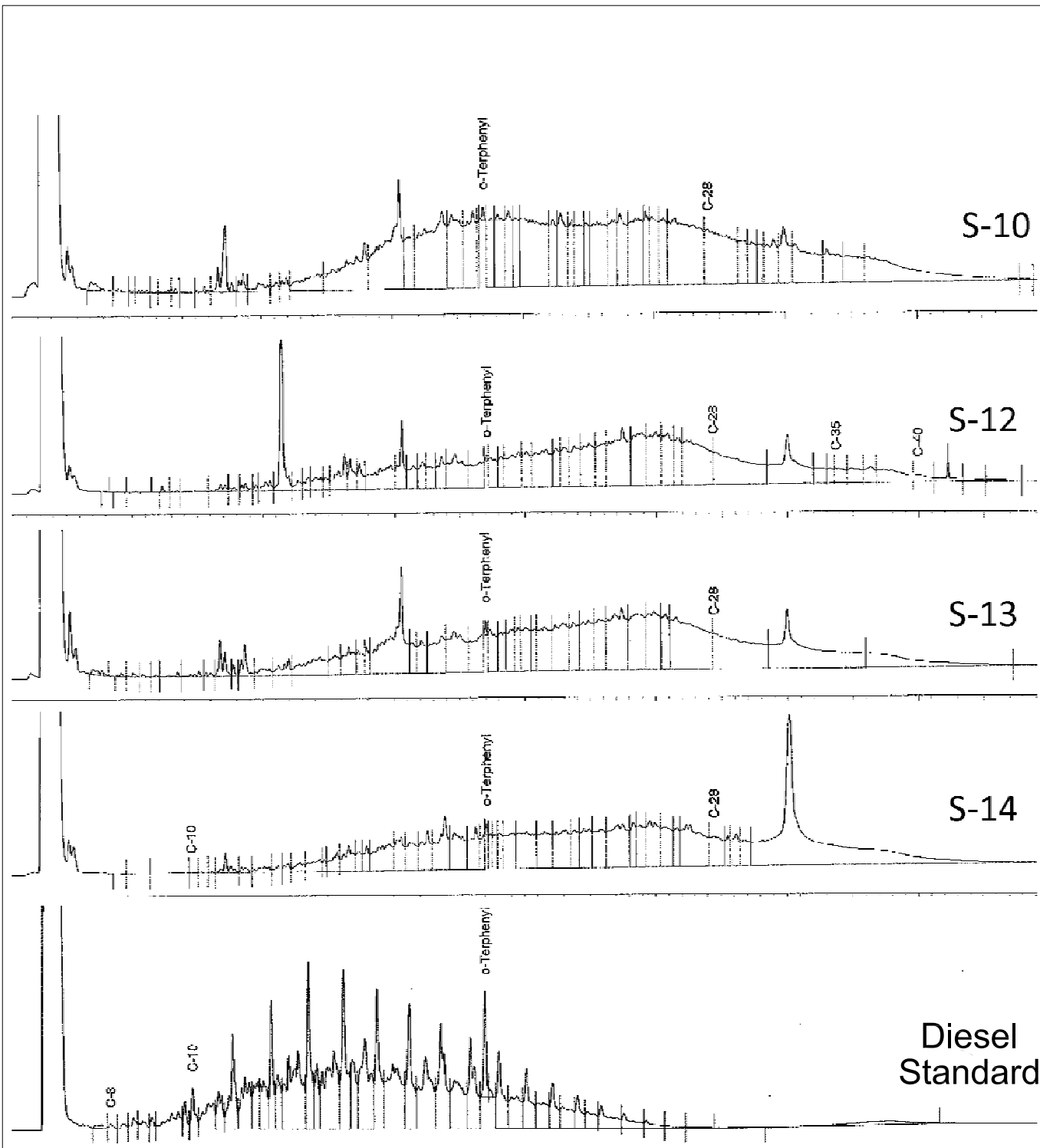


Figure 3
 TPHd Chromatograms
 December 1, 2011
 Shell-branded Service Station
 1800 1/2 Powell Street
 Emeryville, California



TABLE

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1800½ POWELL STREET, EMERYVILLE, CALIFORNIA**

Well ID	Date	TPH _{mo} (µg/L)	TPH _d (µg/L)	TPH _g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
									8020 (µg/L)	8260 (µg/L)								
S-5	10/27/1988	---	---	3,000	660	20	20	70	---	---	---	---	---	---	11.72	---	---	---
S-5	02/10/1989	---	---	2,800	740	20	20	140	---	---	---	---	---	---	11.72	---	---	---
S-5	04/28/1989	---	---	4,300	750	10	20	<30	---	---	---	---	---	---	11.72	---	---	---
S-5	07/07/1989	---	---	1,500	300	8.0	7.0	9.0	---	---	---	---	---	---	11.72	---	---	---
S-5	10/25/1989	---	---	2,100	760	10	40	50	---	---	---	---	---	---	11.72	---	---	---
S-5	01/04/1990	---	---	1,300	520	9.0	8.0	10	---	---	---	---	---	---	11.72	---	---	---
S-5	07/06/1990	---	---	1,400	500	10	4.0	<10	---	---	---	---	---	---	11.72	8.36	---	3.36
S-5	10/19/1990	---	---	4,200	1,100	9.0	14	7.0	---	---	---	---	---	---	11.72	---	---	---
S-5	01/14/1991	---	6,100	4,500	1,100	15	30	25	---	---	---	---	---	---	11.72	---	---	---
S-5	04/23/1991	---	---	2,800	500	8.0	14	10	---	---	---	---	---	---	11.72	---	---	---
S-5	07/08/1991	---	---	3,200	1,000	16	9.0	12	---	---	---	---	---	---	11.72	9.15	---	2.57
S-5	10/11/1991	---	---	1,700	16	5.7	5.2	8.9	---	---	---	---	---	---	11.72	9.67	---	2.05
S-5	02/12/1992	---	---	1,300	300	5.0	<5	<5	---	---	---	---	---	---	11.72	9.00	---	2.72
S-5	05/11/1992	---	---	1,900	490	<0.5	<5	<5	---	---	---	---	---	---	11.72	8.61	---	3.11
S-5	09/01/1992	---	---	6,700	760	26	<25	<25	---	---	---	---	---	---	11.72	9.61	---	2.11
S-5	12/04/1992	---	---	2,900	890	5.3	7.3	13	---	---	---	---	---	---	11.72	9.47	---	2.25
S-5	02/17/1993	---	---	1,300	280	3.0	3.4	9.4	---	---	---	---	---	---	11.72	8.29	---	3.43
S-5	05/29/1993	---	---	460	130	<0.5	<0.5	2.9	---	---	---	---	---	---	11.72	9.16	---	2.56
S-5	08/11/1993	---	---	1,700	530	5.5	<5	5.8	---	---	---	---	---	---	11.72	9.30	---	2.42
S-5	11/12/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	11.72	9.42	---	2.30
S-5	02/21/1994	---	---	1,000	250	<5	<5	<5	---	---	---	---	---	---	11.72	7.95	---	3.77
S-5 (D)	02/21/1994	---	---	1,300	220	<5	<5	11	---	---	---	---	---	---	11.72	7.95	---	3.77
S-5	05/16/1994	---	---	1,200	230	<5	<5	<5	---	---	---	---	---	---	11.72	8.00	---	3.72
S-5	08/09/1994	Well inaccessible	---	---	---	---	---	---	---	---	---	---	---	---	11.72	---	---	---
S-5	11/09/1994	---	---	1,600	220	3.2	1.8	5.0	---	---	---	---	---	---	11.72	8.32	---	3.40
S-5 (D)	11/09/1994	---	---	1,600	250	3.3	1.9	5.9	---	---	---	---	---	---	11.72	8.32	---	---
S-5	02/22/1995	Well inaccessible	---	---	---	---	---	---	---	---	---	---	---	---	11.72	---	---	---
S-5	05/02/1995	Well inaccessible	---	---	---	---	---	---	---	---	---	---	---	---	11.72	---	---	---
S-5	05/10/1995	---	---	910	170	1.5	1.3	5.2	---	---	---	---	---	---	11.72	---	---	---
S-5	08/24/1995	---	---	620	210	<0.5	1.2	5.3	---	---	---	---	---	---	11.72	8.78	---	2.94
S-5	12/08/1995	---	---	1,600	510	3.3	1.5	6.6	---	---	---	---	---	---	11.72	9.78	---	1.94
S-5 (D)	12/08/1995	---	---	1,600	530	1.8	1.1	5.4	---	---	---	---	---	---	11.72	9.78	---	1.94
S-5	02/29/1996	---	---	1,900	470	5.8	<5.0	<5.0	46	---	---	---	---	---	11.72	7.64	---	4.08
S-5 (D)	02/29/1996	---	---	1,700	440	5.4	<5.0	<5.0	40	---	---	---	---	---	11.72	7.64	---	4.08
S-5	05/22/1996	---	---	1,200	490	<10	<10	<10	<50	---	---	---	---	---	11.72	8.60	---	3.12
S-5	07/30/1996	---	---	1,100	400	<5.0	<5.0	6.9	<25	---	---	---	---	---	11.72	9.40	---	2.32
S-5	11/11/1996	Well inaccessible	---	---	---	---	---	---	---	---	---	---	---	---	11.72	---	---	---

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1800½ POWELL STREET, EMERYVILLE, CALIFORNIA

Well ID	Date	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
S-5	11/03/1997	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	11.72	---	---	---
S-5	11/06/1998	---	---	620	91	<0.50	0.64	4.0	<2.5	---	---	---	---	---	11.72	8.25	---	3.47
S-5	12/07/1999	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	11.72	---	---	---
S-5	11/02/2000	---	---	1,120	191	2.78	<2.50	3.56	<12.5	---	---	---	---	---	11.72	8.55	---	3.17
S-5	12/27/2001	---	---	760	110	2.4	<0.50	5.8	---	<5.0	---	---	---	---	11.72	7.64	---	4.08
S-5	11/26/2002	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	14.07	---	---	---
S-5	12/06/2002	---	---	860	130	2.3	<0.50	6.0	---	<5.0	---	---	---	---	14.07	8.62	---	5.45
S-5	11/25/2003	---	---	920	180	3.0	<1.0	6.2	---	<1.0	---	---	---	---	14.07	9.32	---	4.75
S-5	11/10/2004	---	---	530	2.4	0.68	<0.50	6.3	---	<0.50	---	---	---	---	14.07	9.35	---	4.72
S-5	11/23/2005	---	---	1,630	102	2.42	0.540	5.71	---	<0.500	<10.0	<0.500	<0.500	<0.500	14.07	9.62	---	4.45
S-5	11/21/2006	---	---	1,100	91	2.4	<0.50	5.3	---	<0.50	<5.0	<2.0	<2.0	<2.0	14.07	9.60	---	4.47
S-5	11/14/2007	---	---	1,700 t	92	2.9	0.33 u	6.2	---	<1.0	<10	<2.0	<2.0	<2.0	14.07	8.60	---	5.47
S-5	11/17/2008	---	---	810	30	1.6	<1.0	4.4	---	<1.0	<10	<2.0	<2.0	<2.0	14.07	8.10	---	5.97
S-5	11/12/2009	---	---	1,000	24	1.5	<1.0	3.8	---	<1.0	<10	<2.0	<2.0	<2.0	14.07	8.52	---	5.55
S-5	12/03/2010	---	---	790	16	<1.0	<1.0	4.2	---	<1.0	<10	<2.0	<2.0	<2.0	14.07	8.04	---	6.03
S-5	12/01/2011	---	---	280	<0.500	<0.500	<0.500	2.23	---	<0.500	<10.0	<0.500	<0.500	<0.500	14.07	8.80	---	5.27
S-5	01/16/2012	---	7,300 s	---	---	---	---	---	---	---	---	---	---	---	14.07	8.87	---	5.20
S-6	10/27/1988	---	---	6,000	1,700	50	80	420	---	---	---	---	---	---	---	---	---	---
S-6	02/10/1989	---	---	2,800	740	20	20	140	---	---	---	---	---	---	---	---	---	---
S-6	04/28/1989	---	---	6,500	2,400	30	50	210	---	---	---	---	---	---	---	---	---	---
S-6	07/07/1989	---	---	3,700	1,700	34	55	200	---	---	---	---	---	---	---	---	---	---
S-6	10/25/1989	---	---	<50	23	<5.0	<5.0	10	---	---	---	---	---	---	---	---	---	---
S-6	11/10/1989	Well abandoned		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-7	10/27/1988	---	---	50	1.1	<1	<1	4.0	---	---	---	---	---	---	---	---	---	---
S-7	02/10/1989	---	---	---	0.90	<1	<1	<3	---	---	---	---	---	---	---	---	---	---
S-7	04/28/1989	---	---	<50	<1	<1	<1	<3	---	---	---	---	---	---	---	---	---	---
S-7	07/07/1989	---	---	70	2.2	<1	<1	<3	---	---	---	---	---	---	---	---	---	---
S-7	10/25/1989	---	---	6,200	2,200	130	190	660	---	---	---	---	---	---	---	---	---	---
S-7	11/10/1989	Well abandoned		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-8	10/27/1988	---	---	1,000	610	9.0	1.0	42	---	---	---	---	---	---	12.76	---	---	---
S-8	02/10/1989	---	---	500	160	5.0	<2	17	---	---	---	---	---	---	12.76	---	---	---
S-8	04/28/1989	---	---	2,700	1,500	20	10	40	---	---	---	---	---	---	12.76	---	---	---
S-8	07/07/1989	---	---	440	180	5.0	2.0	12	---	---	---	---	---	---	12.76	---	---	---
S-8	10/25/1989	---	---	2,000	1,100	17	5.0	70	---	---	---	---	---	---	12.76	---	---	---

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1800½ POWELL STREET, EMERYVILLE, CALIFORNIA

Well ID	Date	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
S-8	01/04/1990	---	---	1,900	1,300	20	<10	70	---	---	---	---	---	---	12.76	---	---	---
S-8	07/06/1990	---	---	1,600	920	30	<10	60	---	---	---	---	---	---	12.76	9.50	---	3.26
S-8	10/19/1990	---	---	1,400	640	<10	<10	30	---	---	---	---	---	---	12.76	---	---	---
S-8	01/14/1991	600	760	670	190	5.8	<0.5	19	---	---	---	---	---	---	12.76	---	---	---
S-8	04/23/1991	---	---	2,400	740	54	5.7	59	---	---	---	---	---	---	12.76	---	---	---
S-8	07/08/1991	---	---	1,100	450	15	<2.5	42	---	---	---	---	---	---	12.76	10.45	---	2.31
S-8	10/11/1991	---	---	340	4.0	0.60	<0.5	17	---	---	---	---	---	---	12.76	10.83	---	1.93
S-8	02/12/1992	---	---	<1,000	260	<10	<10	11	---	---	---	---	---	---	12.76	10.44	---	2.32
S-8	05/11/1992	---	---	1,800	700	14	<5	46	---	---	---	---	---	---	12.76	10.17	---	2.59
S-8	09/01/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	12.76	10.81	a	1.95
S-8	12/04/1992	---	---	960	250	4.3	<2.5	14	---	---	---	---	---	---	12.76	10.81	---	1.95
S-8	02/17/1993	---	---	2,700	800	35	10	83	---	---	---	---	---	---	12.76	9.65	---	3.11
S-8	05/29/1993	---	---	960	710	25	84	80	---	---	---	---	---	---	12.76	10.46	---	2.30
S-8	08/11/1993	---	---	1,300	630	17	<5	46	---	---	---	---	---	---	12.76	10.59	---	2.17
S-8	11/12/1993	---	---	910	180	8.0	<2.5	15	---	---	---	---	---	---	12.76	10.29	---	2.47
S-8	02/21/1994	---	---	3,200	480	52	<5	130	---	---	---	---	---	---	12.76	9.52	---	3.24
S-8	05/16/1994	---	---	1,000	220	7.3	<5	28	---	---	---	---	---	---	12.76	9.49	---	3.27
S-8 (D)	05/16/1994	---	---	1,000	280	10	<5	29	---	---	---	---	---	---	12.76	9.49	---	3.27
S-8	08/09/1994	---	---	400	27	6.6	<0.5	18	---	---	---	---	---	---	12.76	10.37	---	2.39
S-8	11/09/1994	---	---	650	170	5.3	<0.5	17	---	---	---	---	---	---	12.76	9.58	---	3.18
S-8	02/22/1995	---	---	650	210	10	1.2	22	---	---	---	---	---	---	12.76	9.02	---	3.74
S-8	05/02/1995	---	---	1,000	280	17	1.4	32	---	---	---	---	---	---	12.76	8.45	---	4.31
S-8	08/24/1995	---	---	480	180	11	1.0	19	---	---	---	---	---	---	12.76	10.02	---	2.74
S-8 (D)	08/24/1995	---	---	700	180	6.5	<0.5	17	---	---	---	---	---	---	12.76	10.02	---	2.74
S-8	12/08/1995	---	---	740	230	6.9	0.70	15	---	---	---	---	---	---	12.76	10.65	---	2.11
S-8	02/29/1996	---	---	740	260	8.1	<5.0	19	58	---	---	---	---	---	12.76	9.10	---	3.66
S-8	05/22/1996	---	---	1,200	350	10	<5.0	23	74	---	---	---	---	---	12.76	10.14	---	2.62
S-8	07/30/1996	---	---	530	220	20	6.3	36	69	---	---	---	---	---	12.76	10.51	---	2.25
S-8	11/11/1996	---	---	540	140	3.7	<2.0	17	42	---	---	---	---	---	12.76	10.23	---	2.53
S-8	11/03/1997	---	---	480	54	3.5	<0.50	12	40	---	---	---	---	---	12.76	9.40	---	3.36
S-8	11/06/1998	---	---	740	110	10	2.8	26	31	---	---	---	---	---	12.76	9.78	---	2.98
S-8	12/07/1999	---	---	770	270	16	<2.0	33	75	---	---	---	---	---	12.76	10.14	---	2.62
S-8	11/02/2000	---	---	436	75.8	6.18	0.549	14.9	81.5	---	---	---	---	---	12.76	9.45	---	3.31
S-8	12/27/2001	---	---	1,300	62	11	1.8	31	---	86	---	---	---	---	12.76	9.19	---	3.57
S-8	11/26/2002	---	---	970	58	3.8	0.51	15	---	35	---	---	---	---	15.00	10.10	---	4.90
S-8	11/25/2003	---	---	400	19	4.4	<0.50	15	---	34	---	---	---	---	15.00	10.49	---	4.51
S-8	11/10/2004	---	---	430	28	3.4	<0.50	11	---	25	---	---	---	---	15.00	10.45	---	4.55

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1800½ POWELL STREET, EMERYVILLE, CALIFORNIA

Well ID	Date	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
S-8	11/23/2005	---	---	476	8.72	3.15	1.03	12.6	---	35.2	20.1	<0.500	<0.500	<0.500	15.00	10.46	---	4.54
S-8	11/21/2006	---	---	280	5.9	1.9	4.9	7.9	---	27	47	<2.0	<2.0	<2.0	15.00	10.61	---	4.39
S-8	11/14/2007	---	---	520 t	2.2	0.66 u	<1.0	4.9	---	29	38	<2.0	<2.0	<2.0	15.00	10.01	---	4.99
S-8	11/17/2008	---	---	550	6.9	1.8	<1.0	8.0	---	36	23	<2.0	<2.0	<2.0	15.00	9.64	---	5.36
S-8	11/12/2009	---	---	640	8.1	3.5	<1.0	9.8	---	72	23	<2.0	<2.0	<2.0	15.00	10.00	---	5.00
S-8	12/03/2010	---	---	810	5.3	4.2	<1.0	14	---	37	23	<2.0	<2.0	<2.0	15.00	9.32	---	5.68
S-8	12/01/2011	---	---	150	1.05	<0.500	<0.500	3.94	---	24.7	<10.0	<0.500	<0.500	<0.500	15.00	9.90	---	5.10
S-8	01/16/2012	---	1,400 s	---	---	---	---	---	---	---	---	---	---	---	15.00	8.34	---	6.66
S-9	10/27/1988	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	a	---
S-9	02/10/1989	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	1.30	---
S-9	04/28/1989	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	1.25	---
S-9	07/07/1989	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	1.20	---
S-9	10/25/1989	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	a	---
S-9	01/04/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	a	---
S-9	04/12/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	9.67	a	3.08
S-9	07/06/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	a	---
S-9	10/19/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	a	---
S-9	01/14/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	a	---
S-9	04/23/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	a	---
S-9	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	a	---
S-9	10/11/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	22.30	a	-9.55
S-9	02/24/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	a	---
S-9	05/16/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	1.50	---
S-9	08/09/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	11.80	2.00	---
S-9	11/09/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	---	a	---
S-9	02/22/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	11.40	2.38	---
S-9	05/02/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	11.83	2.12	---
S-9	12/08/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	12.75	11.92	1.06	---
S-9	02/29/1996	Tar-like substance in well, probably from previous landfill activities; not gasoline.										---	---	---	12.75	12.10	2.79	2.88
S-9	05/22/1996	Tar-like substance in well, probably from previous landfill activities; not gasoline.										---	---	---	12.75	11.71	1.75	2.44
S-9	07/30/1996	Tar-like substance in well, probably from previous landfill activities; not gasoline.										---	---	---	12.75	---	a	---
S-9	11/11/1996	Tar-like substance in well, probably from previous landfill activities; not gasoline.										---	---	---	12.75	---	9.00	---
S-9	11/03/1997	Tar-like substance in well, probably from previous landfill activities; not gasoline.										---	---	---	12.75	---	a	---
S-9	11/06/1998	Tar-like substance in well, probably from previous landfill activities; not gasoline.										---	---	---	12.75	---	a	---
S-9	12/07/1999	Tar-like substance in well, probably from previous landfill activities; not gasoline.										---	---	---	12.75	---	---	---
S-9	11/02/2000	Tar-like substance in well, probably from previous landfill activities; not gasoline.										---	---	---	12.75	---	---	---

TABLE 1

GROUNDWATER DATA
 SHELL-BRANDED SERVICE STATION
 1800½ POWELL STREET, EMERYVILLE, CALIFORNIA

Well ID	Date	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
S-9	12/27/2001	Tar-like substance in well, probably from previous landfill activities; not gasoline.										12.75	---	---	---			
S-9	11/26/2002	Tar-like substance in well, probably from previous landfill activities; not gasoline.										14.83	---	---	---			
S-9	11/25/2003	Tar-like substance in well, probably from previous landfill activities; not gasoline.										14.83	---	---	---			
S-9	11/25/2003	Tar-like substance in well, probably from previous landfill activities; not gasoline.										14.98 n	---	---	---			
S-9	11/23/2005	Tar-like substance in well, probably from previous landfill activities; not gasoline.										14.98	---	---	---			
S-9	11/21/2006	Tar-like substance in well, probably from previous landfill activities; not gasoline.										14.98	---	---	---			
S-9	11/14/2007	Tar-like substance in well, probably from previous landfill activities; not gasoline.										14.98	---	---	---			
S-9	11/17/2008	Tar-like substance in well, probably from previous landfill activities; not gasoline.										14.98	---	---	---			
S-9	11/12/2009	Dry	---	---	---	---	---	---	---	---	---	---	---	---	14.98	---	---	---
S-9	12/03/2010	Dry	---	---	---	---	---	---	---	---	---	---	---	---	14.98	---	---	---
S-9	12/01/2011	Dry	---	---	---	---	---	---	---	---	---	---	---	---	14.98	---	---	---
S-10	10/27/1988	---	---	700,000	37,000	100,000	20,000	110,000	---	---	---	---	---	---	12.58	---	---	---
S-10	02/10/1989	---	---	6,500	480	700	100	1,800	---	---	---	---	---	---	12.58	---	---	---
S-10	04/28/1989	---	---	13,000	1,300	500	600	3,700	---	---	---	---	---	---	12.58	---	---	---
S-10	07/07/1989	---	---	14,000	1,300	310	270	2,400	---	---	---	---	---	---	12.58	---	---	---
S-10	10/25/1989	---	---	4,200	580	34	4.0	440	---	---	---	---	---	---	12.58	---	---	---
S-10	01/04/1990	---	---	1,700	360	10	7.8	170	---	---	---	---	---	---	12.58	---	0.01	---
S-10	04/12/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	12.58	9.16	0.01	3.42
S-10	07/06/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	12.58	---	0.03	---
S-10	10/19/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	12.58	---	0.03	---
S-10	01/14/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	12.58	---	0.01	---
S-10	04/23/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	12.58	9.41	0.03	3.17
S-10	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	12.58	7.77	a	4.81
S-10	10/11/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	12.58	6.41	---	6.17
S-10	02/12/1992	---	---	1,200	470	16	<5	14	---	---	---	---	---	---	12.58	9.04	---	3.54
S-10	05/11/1992	---	---	1,100	100	6.0	4.0	19	---	---	---	---	---	---	12.58	9.38	0.01	3.20
S-10	09/01/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	12.58	6.89	a	5.69
S-10	12/04/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	12.58	7.34	---	5.24
S-10	02/17/1993	---	---	530	89	8.5	1.6	4.5	---	---	---	---	---	---	12.58	6.60	---	5.98
S-10	05/29/1993	---	---	240	65	3.8	2.2	8.6	---	---	---	---	---	---	12.58	9.09	---	3.49
S-10	08/11/1993	---	---	250	23	4.1	<1	6.4	---	---	---	---	---	---	12.58	6.58	---	6.00
S-10	11/12/1993	---	---	320	1.6	1.3	1.4	6.2	---	---	---	---	---	---	12.58	8.32	---	4.26
S-10	02/21/1994	---	---	1,400	190	9.9	<2.5	19	---	---	---	---	---	---	12.58	8.35	---	4.23
S-10	05/16/1994	---	---	300	45	8.6	6.2	19	---	---	---	---	---	---	12.58	8.66	---	3.92
S-10	08/08/1994	---	---	700	57	14	<0.5	9.3	---	---	---	---	---	---	12.58	6.68	---	5.90
S-10	11/09/1994	---	---	640	130	2.0	1.6	4.1	---	---	---	---	---	---	12.58	6.68	---	5.90

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1800½ POWELL STREET, EMERYVILLE, CALIFORNIA**

Well ID	Date	TPH _{mo} (µg/L)	TPH _d (µg/L)	TPH _g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
									8020 (µg/L)	8260 (µg/L)								
S-10	02/22/1995	---	---	500	65	5.9	1.0	8.2	---	---	---	---	---	---	12.58	9.12	---	3.46
S-10	05/02/1995	---	---	530	59	2.3	0.80	8.2	---	---	---	---	---	---	12.58	9.50	---	3.08
S-10	08/24/1995	---	---	350	35	4.6	<0.5	6.7	---	---	---	---	---	---	12.58	10.06	---	2.52
S-10	12/08/1995	---	---	690	28	4.6	0.90	8.6	---	---	---	---	---	---	12.58	10.08	---	2.50
S-10	02/29/1996	---	---	430	32	1.8	0.50	5.8	16	---	---	---	---	---	12.58	5.32	---	7.26
S-10	05/22/1996	---	1,200	100	19	0.63	<0.5	1.4	5.3	---	---	---	---	---	12.58	6.04	---	6.54
S-10	07/30/1996	---	13,000	240	17	<1.2	<1.2	7.8	11	---	---	---	---	---	12.58	10.48	---	2.10
S-10	11/11/1996	---	4,800	370	16	1.1	<0.5	7.0	94	---	---	---	---	---	12.58	10.31	---	2.27
S-10	11/03/1997	---	1,100	340	6.7	2.1	<0.50	3.3	19	---	---	---	---	---	12.58	9.53	---	3.05
S-10	11/03/1997	---	1,100	310	7.8	1.3	<0.50	3.1	19	---	---	---	---	---	12.58	9.53	---	3.05
S-10 (D)	11/03/1997	---	1,100	310	7.8	1.3	<0.50	3.1	19	---	---	---	---	---	12.58	9.53	---	3.05
S-10	11/06/1998	---	2,000	<250	<2.5	<2.5	<2.5	6.5	900	---	---	---	---	---	12.58	5.12	---	7.46
S-10	12/07/1999	---	2,230	400	47	33	10	29	90	---	---	---	---	---	12.58	7.95	---	4.63
S-10	11/02/2000	---	14,500	536	32.0	3.08	<0.500	2.98	42.3	---	---	---	---	---	12.58	7.05	---	5.53
S-10	12/27/2001	---	6,600	870	61	4.9	2.5	15	---	26	---	---	---	---	12.58	7.43	---	5.15
S-10	11/26/2002	---	9,800	720	56	3.5	<0.50	8.4	---	52	---	---	---	---	15.11	9.75	---	5.36
S-10	11/25/2003	---	530 r	550	29	2.7	<0.50	8.4	---	49	---	---	---	---	15.11	9.00	---	6.11
S-10	11/10/2004	---	1,500 r	660	64	5.0	0.61	14	---	54	---	---	---	---	14.93 n	9.50	---	5.43
S-10	11/23/2005	---	---	866	47.0	3.44	0.600	12.6	---	61.9	<10.0	<0.500	<0.500	<0.500	14.93	10.23	---	4.70
S-10	11/21/2006	---	12,000	490	21	2.3	5.8	9.6	---	48	34	<2.0	<2.0	<2.0	14.93	10.04	---	4.89
S-10	11/14/2007	---	1,300 r,s	740 t	19	2.1	<1.0	8.0	---	44	20	<2.0	<2.0	<2.0	14.93	9.49	---	5.44
S-10	11/17/2008	---	2,000 s	630	7.3	1.0	<1.0	7.0	---	32	11	<2.0	<2.0	<2.0	14.93	10.03	---	4.90
S-10	11/12/2009	---	2,100 s	600	7.9	1.1	<1.0	5.7	---	23	12	<2.0	<2.0	<2.0	14.93	10.31	---	4.62
S-10	12/03/2010	---	900 s	740	6.0	1.3	<1.0	9.3	---	19	12	<2.0	<2.0	<2.0	14.93	9.60	---	5.33
S-10	12/01/2011	---	10,100 k,s	430	2.87	0.680	<0.500	6.85	---	22.0	<10.0	<0.500	<0.500	<0.500	14.93	10.60	---	4.33
S-10	01/16/2012	---	5,700 s	---	---	---	---	---	---	---	---	---	---	---	14.93	9.96	---	4.97
S-12	07/07/1989	---	2,200	<250	0.71	<0.5	<0.5	<3.6	---	---	---	---	---	---	12.84	8.22	---	---
S-12	11/17/1989	---	1,400	<250	18	<2	<2	<5	---	---	---	---	---	---	12.84	---	---	---
S-12	01/04/1990	---	---	<250	24	2.0	<2	<5	---	---	---	---	---	---	12.84	---	---	---
S-12	07/06/1990	---	---	80	15	0.70	<0.5	2.0	---	---	---	---	---	---	12.84	8.27	---	4.57
S-12	10/19/1990	---	---	150	12	9.0	<0.5	3.6	---	---	---	---	---	---	12.84	---	---	---
S-12	01/14/1991	600	1,000	120	3.6	0.80	<0.5	2.9	---	---	---	---	---	---	12.84	---	---	---
S-12	04/23/1991	800	820	100	3.7	3.8	0.80	11	---	---	---	---	---	---	12.84	9.50	---	3.34
S-12	07/08/1991	---	---	70	2.5	0.80	<0.5	2.4	---	---	---	---	---	---	12.84	9.90	---	2.94
S-12	10/11/1991	5,100	2,500	220	2.1	0.70	<0.5	1.2	---	---	---	---	---	---	12.84	9.43	---	3.41
S-12	02/12/1992	1,400	2,500	110	0.80	<0.5	<0.5	1.3	---	---	---	---	---	---	12.84	8.65	---	4.19
S-12	05/11/1992	---	3,800 b	140	0.80	0.80	<0.5	2.5	---	---	---	---	---	---	12.84	---	---	---

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1800½ POWELL STREET, EMERYVILLE, CALIFORNIA

Well ID	Date	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
S-12	09/01/1992	---	2,600 b	190	3.0	15	0.50	4.5	---	---	---	---	---	---	12.84	9.86	---	2.98
S-12	12/04/1992	---	3,900 b	180	1.2	1.0	1.0	7.7	---	---	---	---	---	---	12.84	9.93	---	2.91
S-12	02/17/1993	---	2,100 b	350 r	0.60	<0.5	0.50	5.5	---	---	---	---	---	---	12.84	8.08	---	4.76
S-12	05/29/1993	---	2,200	290	2.0	1.6	4.4	6.0	---	---	---	---	---	---	12.84	9.08	---	3.76
S-12	08/11/1993	---	720	240	0.70	<0.5	<0.5	1.1	---	---	---	---	---	---	12.84	9.35	---	3.49
S-12	11/12/1993	---	4,100	210 r	0.70	0.50	<0.5	3.4	---	---	---	---	---	---	12.84	9.28	---	3.56
S-12	02/21/1994	---	2,200 e	240 v	0.70	<0.5	<0.5	3.6	---	---	---	---	---	---	12.84	8.22	---	4.62
S-12	05/16/1994	---	2,200	96	1.5	<0.5	<0.5	2.0	---	---	---	---	---	---	12.84	8.92	---	3.92
S-12	08/08/1994	---	3,500 g	110f	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	12.84	---	---	0.00
S-12	11/09/1994	---	5,400 g	80	80	<0.5	<0.5	0.60	---	---	---	---	---	---	12.84	7.56	---	5.28
S-12	02/22/1995	---	2,900 g,h	110	0.70	<0.5	<0.5	3.7	---	---	---	---	---	---	12.84	7.98	---	4.86
S-12 (D)	02/22/1995	---	3,400 g,h	110	4.8	7.1	<0.5	2.1	---	---	---	---	---	---	12.84	7.98	---	4.86
S-12	05/02/1995	---	2,800	140	2.4	1.1	0.80	4.3	---	---	---	---	---	---	12.84	8.44	---	4.40
S-12	08/24/1995	---	1,600	200	19	12	5.6	24	---	---	---	---	---	---	12.84	9.00	---	3.84
S-12	12/08/1995	---	2,700	170	2.2	0.70	0.90	3.6	---	---	---	---	---	---	12.84	9.62	---	3.22
S-12	02/29/1996	---	2,200	1,700	<5.0	<5.0	<5.0	<5.0	5,600	---	---	---	---	---	12.84	7.64	---	5.20
S-12	05/22/1996	---	5,700	<1,000	<10	<10	<10	<10	2,400	---	---	---	---	---	12.84	8.94	---	3.90
S-12	07/30/1996	---	3,200	<500	<5.0	<5.0	<5.0	<5.0	1,500	---	---	---	---	---	12.84	9.71	---	3.13
S-12 (D)	07/30/1996	---	2,900	<500	<5.0	<5.0	<5.0	<5.0	---	2,000	---	---	---	---	12.84	9.71	---	3.13
S-12	11/11/1996	---	6,900	<500	<5.0	<5.0	<5.0	<5.0	1,400	---	---	---	---	---	12.84	9.65	---	3.19
S-12	11/03/1997	---	2,800	110	2.1	<0.50	<0.50	1.3	---	---	---	---	---	---	12.84	8.73	---	4.11
S-12	11/06/1998	---	2,900	<500	<5.0	<5.0	<5.0	<5.0	2,700	---	---	---	---	---	12.84	8.85	---	3.99
S-12	12/07/1999	---	2,800	<500	<5.0	<5.0	<5.0	<5.0	1,900	---	---	---	---	---	12.84	8.32	---	4.52
S-12	11/02/2000	---	4,000	132	0.642	<0.500	<0.500	1.07	1,900	2,230 k	---	---	---	---	12.84	7.50	---	5.34
S-12	12/27/2001	---	2,700	230	<2.0	<2.0	<2.0	<2.0	---	760	---	---	---	---	12.84	7.00	---	5.84
S-12	11/26/2002	---	540	180	<1.0	<1.0	<1.0	1.7	---	390	---	---	---	---	14.87	8.35	---	6.52
S-12	11/25/2003	---	2,600 r	<250	<2.5	<2.5	<2.5	<5.0	---	310	---	---	---	---	14.87	6.04	---	8.83
S-12	11/10/2004	---	1,000 r	290	<1.0	1.2	<1.0	5.0	---	140	---	---	---	---	14.87	7.80	---	7.07
S-12	11/23/2005	---	---	<50.0	<0.500	<0.500	<0.500	2.63	---	93.3	398	<0.500	<0.500	<0.500	14.87	7.22	---	7.65
S-12	11/21/2006	---	220	280	<1.0	<1.0	<1.0	<2.0	---	110	600	<4.0	<4.0	<4.0	14.87	8.53	---	6.34
S-12	11/14/2007	---	660 r,s	360 t	0.23 u	<1.0	<1.0	0.51 u	---	83	830	<2.0	<2.0	<2.0	14.87	7.40	---	7.47
S-12	11/17/2008	---	2,600 s	390	<0.50	<1.0	<1.0	<1.0	---	44	350	<2.0	<2.0	<2.0	14.87	6.80	---	8.07
S-12	11/12/2009	---	690 s	200	<0.50	<1.0	<1.0	<1.0	---	61	370	<2.0	<2.0	<2.0	14.87	8.00	---	6.87
S-12	12/03/2010	---	480 r,s	330	<0.50	<1.0	<1.0	<1.0	---	31	280	<2.0	<2.0	<2.0	14.87	7.47	---	7.40
S-12	12/01/2011	---	15,600 k,s	200	<0.500	<0.500	<0.500	0.970	---	54.3	<10.0	<0.500	<0.500	<0.500	14.87	8.60	---	6.27
S-12	01/16/2012	---	1,800 s,v	---	---	---	---	---	---	---	---	---	---	---	14.87	8.56	---	6.31

TABLE 1

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1800½ POWELL STREET, EMERYVILLE, CALIFORNIA**

Well ID	Date	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
S-13	07/07/1989	---	3,600	700	200	<5	<5	45	---	---	---	---	---	---	12.59	9.26	---	---
S-13	11/17/1989	5,000	2,000	1,900	700	160	70	340	---	---	---	---	---	---	12.59	---	---	---
S-13	01/04/1990	---	---	2,800	1,400	130	10	500	---	---	---	---	---	---	12.59	---	---	---
S-13	07/06/1990	---	---	3,100	1,800	60	40	270	---	---	---	---	---	---	12.59	9.47	---	3.12
S-13	10/24/1990	---	---	3,400	1,500	28	28	250	---	---	---	---	---	---	12.59	---	---	---
S-13	01/14/1991	1,600	900	1,900	830	15	<10	99	---	---	---	---	---	---	12.59	---	---	---
S-13	04/23/1991	640	770 h	2,900 r	1,100	20	30	140	---	---	---	---	---	---	12.59	---	---	---
S-13	07/08/1991	---	---	1,500	880	10	6.0	160	---	---	---	---	---	---	12.59	10.38	---	2.21
S-13	10/11/1991	4,900	2,400	480	830	15	<0.5	120	---	---	---	---	---	---	12.59	10.78	---	1.81
S-13	02/12/1992	1,300	1,300	1,300	510	<10	<10	86	---	---	---	---	---	---	12.59	10.48	---	2.11
S-13	05/11/1992	---	1,300 b	1,000	470	<0.5	<5	50	---	---	---	---	---	---	12.59	9.48	---	3.11
S-13	09/01/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	12.59	10.74	a	1.85
S-13	12/04/1992	---	2,400 b	900	290	4.6	<2.5	20	---	---	---	---	---	---	12.59	10.30	---	2.29
S-13	02/17/1993	---	1,200 b	840 r	310	3.5	<2.5	27	---	---	---	---	---	---	12.59	7.60	---	4.99
S-13	05/29/1993	---	4,600	2,100	1,100	19	50	350	---	---	---	---	---	---	12.59	10.60	---	1.99
S-13	08/11/1993	---	2,300	900	230	16	6.9	65	---	---	---	---	---	---	12.59	10.58	---	2.01
S-13	11/12/1993	---	2,800	2,800	200	15	8.6	58	---	---	---	---	---	---	12.59	9.84	---	2.75
S-13	02/21/1994	---	1,800 v	700	200	<5	<5	45	---	---	---	---	---	---	12.59	9.26	---	3.33
S-13	05/16/1994	---	1,700	650	180	2.5	<2.5	21	---	---	---	---	---	---	12.59	9.62	---	2.97
S-13	08/08/1994	---	2,600 g	470	12	1.5	0.50	14	---	---	---	---	---	---	12.59	10.32	---	2.27
S-13	11/09/1994	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	12.59	---	---	---
S-13	02/22/1995	---	2,400 g,h	550	190	4.0	<0.5	17	---	---	---	---	---	---	12.59	8.92	---	3.67
S-13	05/02/1995	---	2,100	790	250	6.9	1.2	22	---	---	---	---	---	---	12.59	9.52	---	3.07
S-13	08/24/1995	---	1,500	330	93	<0.5	<0.5	2.0	---	---	---	---	---	---	12.59	10.02	---	2.57
S-13	12/08/1995	---	2,400	440	110	2.2	0.80	23	---	---	---	---	---	---	12.59	10.75	---	1.84
S-13	02/29/1996	---	2,500	560	130	<5.0	<5.0	30	30	---	---	---	---	---	12.59	9.02	---	3.57
S-13	05/22/1996	---	3,700	430	55	1.6	310	27	<5.0	---	---	---	---	---	12.59	10.20	---	2.39
S-13	07/30/1996	---	1,600	230	30	2.0	1.4	17	15	---	---	---	---	---	12.59	10.42	---	2.17
S-13	11/11/1996	---	2,700	320	19	1.1	<0.5	14	3.5	---	---	---	---	---	12.59	10.28	---	2.31
S-13 (D)	11/11/1996	---	2,400	360	24	1.3	<0.5	15	4.5	---	---	---	---	---	12.59	10.28	---	2.31
S-13	11/03/1997	---	1,900	300	25	1.4	0.63	12	5.0	---	---	---	---	---	12.59	9.36	---	3.23
S-13	11/06/1998	---	1,300	390	53	2.9	1.1	13	17	---	---	---	---	---	12.59	9.85	---	2.74
S-13	12/07/1999	---	1,430	420	15	6.2	2.6	15	42	---	---	---	---	---	12.59	9.72	---	2.87
S-13	11/02/2000	---	4,240	257	4.89	1.92	<0.500	5.17	45.1	---	---	---	---	---	12.59	7.15	---	5.44
S-13	12/27/2001	---	6,400	300	7.2	0.84	<0.50	6.0	---	34	---	---	---	---	12.59	9.35	---	3.24
S-13	11/26/2002	---	850	160	<0.50	<0.50	<0.50	2.6	---	23	---	---	---	---	14.47	9.80	---	4.67
S-13	11/25/2003	---	5,100 r	180	0.57	0.55	<0.50	3.0	---	26	---	---	---	---	14.47	9.94	---	4.53

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1800½ POWELL STREET, EMERYVILLE, CALIFORNIA

Well ID	Date	TPH _{mo} (µg/L)	TPH _d (µg/L)	TPH _g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE	MTBE	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
									8020 (µg/L)	8260 (µg/L)								
S-13	11/10/2004	---	1,900 r	220	<0.50	0.71	<0.50	2.8	---	26	---	---	---	---	14.47	10.05	---	4.42
S-13	11/23/2005	---	---	<50.0	4.33	1.24	0.700	5.40	---	27.2	30.3	<0.500	<0.500	<0.500	14.47	10.02	---	4.45
S-13	11/21/2006	---	840	370	19	2.3	0.60	4.9	---	77	73	<2.0	<2.0	5.1	14.47	10.30	---	4.17
S-13	11/14/2007	---	590 r,s	650 t	8.0	1.8	<1.0	4.7	---	32	13	<2.0	<2.0	1.8 u	14.47	9.60	---	4.87
S-13	11/17/2008	---	1,500 s	510	3.0	1.1	<1.0	4.2	---	25	13	<2.0	<2.0	<2.0	14.47	9.24	---	5.23
S-13	11/12/2009	---	1,000 s	410	2.6	1.0	<1.0	2.1	---	32	17	<2.0	<2.0	<2.0	14.47	9.82	---	4.65
S-13	12/03/2010	---	650 r,s	690	3.8	1.6	<1.0	6.3	---	44	22	<2.0	<2.0	3.8	14.47	9.30	---	5.17
S-13	12/01/2011	---	9,100 k,s	580	4.20	1.02	<0.500	5.80	---	67.0	<10.0	<0.500	<0.500	<0.500	14.47	10.02	---	4.45
S-13	01/16/2012	---	1,200 s	---	---	---	---	---	---	---	---	---	---	---	14.47	9.80	---	4.67
S-14	11/17/1989	3,000	<400	<250	3.0	<2	<2	<5	---	---	---	---	---	---	12.69	---	---	---
S-14	01/04/1990	---	---	<250	3.0	2.0	<2	<5	---	---	---	---	---	---	12.69	---	---	---
S-14	04/23/1991	<5,000	18,000	1,200	7.4	2.7	15	110	---	---	---	---	---	---	12.69	---	---	---
S-14	07/08/1991	---	---	190	6.5	0.60	1.9	26	---	---	---	---	---	---	12.69	10.32	---	2.37
S-14	10/11/1991	<500	21,000	4,900	7.0	1.2	<0.5	25	---	---	---	---	---	---	12.69	10.77	---	1.92
S-14	02/12/1992	2,500	12,000 r	370	4.6	<2.5	<2.5	26	---	---	---	---	---	---	12.69	10.40	---	2.29
S-14	05/11/1992	---	2,200 b	660	2.9	<2.5	<2.5	24	---	---	---	---	---	---	12.69	9.66	---	3.03
S-14	09/01/1992	---	7,900	700	3.2	<2.5	<2.5	15	---	---	---	---	---	---	12.69	10.74	---	1.95
S-14	12/04/1992	---	11,000 b	210	<0.5	<0.5	0.80	6.8	---	---	---	---	---	---	12.69	10.69	---	2.00
S-14	02/17/1993	---	5,700 b	130 r	<0.5	<0.5	<0.5	4.4	---	---	---	---	---	---	12.69	9.69	---	3.00
S-14	05/29/1993	---	5,200	770	<0.5	<0.5	<0.5	4.5	---	---	---	---	---	---	12.69	10.42	---	2.27
S-14	08/11/1993	---	8,800	920	<1	<1	1.6	17	---	---	---	---	---	---	12.69	10.54	---	2.15
S-14	11/12/1993	---	28,000	710	20	57	25	69	---	---	---	---	---	---	12.69	9.91	---	2.78
S-14	02/21/1994	---	3,600	2,800	<5	<5	<5	14	---	---	---	---	---	---	12.69	9.30	---	3.09
S-14	02/21/1994	---	3,600 e	2,300 v	<5.0	<5	<5	14	---	---	---	---	---	---	12.69	9.30	---	3.39
S-14	05/16/1994	---	6,700	310	<2.5	<2.5	<2.5	3.1	---	---	---	---	---	---	12.69	9.54	---	3.15
S-14	08/08/1994	---	2,900	480 i	<0.5	0.60	<0.5	0.8	---	---	---	---	---	---	12.69	10.29	---	2.40
S-14 (D)	08/08/1994	---	2,900	590 i	<0.5	0.60	<0.5	1.5	---	---	---	---	---	---	12.69	10.29	---	2.40
S-14	11/09/1994	---	6,400 g	170 i	0.70	<0.5	<0.5	2.7	---	---	---	---	---	---	12.69	9.52	---	3.07
S-14	02/22/1995	---	7,000 g,h	550	<0.5	<0.5	<0.5	1.6	---	---	---	---	---	---	12.69	9.18	---	3.51
S-14	05/02/1995	---	2,300	210	1.0	0.90	1.1	6.3	---	---	---	---	---	---	12.69	9.49	---	3.20
S-14 (D)	05/02/1995	---	2,600	160	0.60	0.60	0.70	3.8	---	---	---	---	---	---	12.69	9.49	---	3.20
S-14	08/24/1995	---	3,700	180	0.50	<0.5	<0.5	1.3	---	---	---	---	---	---	12.69	9.94	---	2.75
S-14	12/08/1995	---	4,900	190	1.0	<0.5	0.60	4.6	---	---	---	---	---	---	12.69	10.65	---	2.04
S-14	02/29/1996	---	11,000	200	<0.5	<0.5	<0.5	2.0	3.0	---	---	---	---	---	12.69	8.90	---	3.79
S-14	05/22/1996	---	3,800	93	<0.5	<0.5	<0.5	1.6	<2.5	---	---	---	---	---	12.69	10.10	---	2.59
S-14 (D)	05/22/1996	---	3,900	150	<0.5	<0.5	<0.5	1.8	<2.5	---	---	---	---	---	12.69	10.10	---	2.59

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1800½ POWELL STREET, EMERYVILLE, CALIFORNIA**

Well ID	Date	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
									8020 (µg/L)	8260 (µg/L)								
S-14	07/30/1996	---	2,500	<50	<0.5	<0.5	<0.5	0.89	<2.5	---	---	---	---	---	12.69	10.37	---	2.32
S-14	11/11/1996	---	27,000	2,600	<2.5	<2.5	<2.5	3.9	<12	---	---	---	---	---	12.69	10.29	---	2.40
S-14	11/03/1997	---	1,800	430	<0.50	<0.50	<0.50	1.7	<2.5	---	---	---	---	---	12.69	9.52	---	3.17
S-14	11/06/1998	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	12.69	---	---	---
S-14	12/07/1999	---	5,920	970	1.0	1.1	0.59	3.5	2.6	---	---	---	---	---	12.69	9.73	---	2.96
S-14	11/02/2000	---	535,000	273	<0.500	<0.500	<0.500	1.59	<2.50	---	---	---	---	---	12.69	9.98	---	2.71
S-14	12/27/2001	---	20,000	68	<0.50	<0.50	<0.50	1.3	---	<5.0	---	---	---	---	12.69	9.33	---	3.36
S-14	11/26/2002	---	2,400	<50	<0.50	<0.50	<0.50	0.91	---	<5.0	---	---	---	---	14.51	9.70	---	4.81
S-14	11/25/2003	---	4,400 r	78 r	<0.50	<0.50	<0.50	1.2	---	1.6	---	---	---	---	14.51	9.99	---	4.52
S-14	11/10/2004	---	2,500 r	74 r	<0.50	<0.50	<0.50	<1.0	---	1.9	---	---	---	---	14.51	10.05	---	4.46
S-14	11/23/2005	---	---	<50.0	<0.500	<0.500	<0.500	<0.500	---	1.02	<10.0	<0.500	<0.500	<0.500	14.51	9.92	---	4.59
S-14	11/21/2006	---	5,000	62 q	<0.50 q	<0.50 q	<0.50 q	<1.0 q	---	1.9 q	<5.0 q	<2.0 q	<2.0 q	<2.0 q	14.51	10.26	---	4.25
S-14	11/14/2007	---	550 r,s	120 t	0.98	<1.0	<1.0	0.23 u	---	2.2	<10	<2.0	<2.0	<2.0	14.51	9.63	---	4.88
S-14	11/17/2008	---	1,700 s	<50	<0.50	<1.0	<1.0	<1.0	---	1.4	<10	<2.0	<2.0	<2.0	14.51	9.25	---	5.26
S-14	11/12/2009	---	1,200 s	<50	<0.50	<1.0	<1.0	<1.0	---	1.2	<10	<2.0	<2.0	<2.0	14.51	9.67	---	4.84
S-14	12/03/2010	---	540 s	58	<0.50	<1.0	<1.0	<1.0	---	1.1	<10	<2.0	<2.0	<2.0	14.51	9.12	---	5.39
S-14	12/01/2011	---	7,610 k,s	120	<0.500	<0.500	<0.500	<0.500	---	1.46	<10.0	<0.500	<0.500	<0.500	14.51	9.88	---	4.63
S-14	01/16/2012	---	1,400 s	---	---	---	---	---	---	---	---	---	---	---	14.51	9.69	---	4.82

Notes:

TPHmo = Total petroleum hydrocarbons as motor oil analyzed by modified EPA Method 8015

TPHd = Total petroleum hydrocarbons as diesel analyzed by modified EPA Method 8015

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to December 27, 2001, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to December 27, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by method noted

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

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

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

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

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

SPH = Separate-phase hydrocarbon

GW = Groundwater

µg/L = Micrograms per liter

ft = Feet

MSL = Mean sea level

<x = Not detected at reporting limit x

--- = Not analyzed or available

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1800½ POWELL STREET, EMERYVILLE, CALIFORNIA**

Well ID	Date	TPH _{mo} (µg/L)	TPH _d (µg/L)	TPH _g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE	MTBE	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	SPH	GW
									8020 (µg/L)	8260 (µg/L)						Water	Thickness	Elevation

(D) = Duplicate sample

a = SPH present but not measured

b = Compounds detected within the chromatographic range appear to be weathered diesel.

e = The concentration reported as diesel is due to the presence of a combination of diesel and a heavier petroleum product of hydrocarbon range C18 - C36, possibly motor oil.

f = The result for gasoline is an unknown hydrocarbon which consists of several peaks.

g = The positive result appears to be a heavier hydrocarbon than diesel.

h = Compounds detected within the chromatographic range of diesel appear to include gasoline compounds.

i = The positive result appears to be a heavier hydrocarbon than gasoline.

k = Sample analyzed outside of EPA recommended holding time.

n = TOC altered due to wellhead maintenance.

q = The sample, as received, was not preserved in accordance to the referenced analytical method.

r = 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.

s = The sample extract was subjected to silica gel treatment prior to analysis.

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

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

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

Beginning November 26, 2002, depth to water referenced to TOC instead of top of well box.

Active wells surveyed on February 12, 2002 by Virgil Chavez Land Surveying

APPENDIX A

BLAINE TECH SERVICES, INC. -
FIELD NOTES

WELL GAUGING DATA

Project # 111201-DW1 Date 12/1/11 Client Shell

Site 1800 Powell, Emeryville

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
S-5	1000 1065	8					8.80	11.71	↓	
S-8	1000	3				9.90	17.83			
S-9	1015	3				Dry	—			
S-10	0950	6				10.60	19.15			
S-12	0940	3				8.60	23.67			
S-13	0945	3				10.02	18.70			
S-14	0935	3				9.88	22.72	↓		

SHELL WELL MONITORING DATA SHEET

BTS #: 111201-DW1	Site: 1800 Powell, Emeryville
Sampler: DW	Date: 12/1/11
Well I.D.: S-5	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 11.71	Depth to Water (DTW): 8.80
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]: 9.38	

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: _____

<u>7.6</u> (Gals.) X <u>3</u>	<u>=</u>	<u>22.8</u> Gals.	
I Case Volume	Specified Volumes	Calculated Volume	

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1320	67.6	7.25	2152	34	7.6	
1321	67.8	7.02	2146	31	15.2	
1322	68.1	6.95	2140	28	22.8	
						(HCL Removed)
						(Highly reactive)

Did well dewater? Yes No Gallons actually evacuated: ~~9.10~~ ^(DW) 22.8

Sampling Date: 12/1/11 Sampling Time: 1330 Depth to Water: 9.10

Sample I.D.: S-5 Laboratory: Test America Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 111201-DW1	Site: 1800 Powell, Emeryville
Sampler: DW	Date: 12/1/11
Well I.D.: S-8	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth (TD): 17.83	Depth to Water (DTW): 9.90
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]: 11.49	

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

3 (Gals.) X 3 = 9 Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1254	67.2	7.19	2206	57	3.0	
1255	69.9	6.85	1361	170	6.0	
1255	70.4	6.77	1289	206	9.0	
						(HCL Removed)
						(Highly reactive)

Did well dewater? Yes No Gallons actually evacuated: 9.0

Sampling Date: 12/1/11 Sampling Time: 1300 Depth to Water: 11.13

Sample I.D.: S-8 Laboratory: Fest 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 111201-DW1	Site: 1800 Powell, Emeryville
Sampler: DW	Date: 12/1/11
Well I.D.: S-10	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth (TD): 19.15	Depth to Water (DTW): 10.60
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.31	

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: _____
---	--	--

12.6 (Gals.) X	3	= 37.8 Gals.
I Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1237	67.3	7.26	2288	36	12.6	
1237	well dewatered @				13.0 gals	
						(HCL Removed)
1440	71.7	7.15	8957	71000		(Highly Reactive)

Did well dewater? Yes No Gallons actually evacuated: 13.0

Sampling Date: 12/1/11 Sampling Time: 1440 Depth to Water: 17.07 (2hr)

Sample I.D.: S-10 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 111201-DW1	Site: 1800 Powell, Emeryville
Sampler: DW	Date: 12/1/11
Well I.D.: S-12	Well Diameter: 2 (3) 4 6 8
Total Well Depth (TD): 23.67	Depth to Water (DTW): 8.60
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]: 11.61	

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: _____
---	--	--

5.6 (Gals.) X	3	= 16.8 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1150	66.7	7.30	1559	29	5.6	
1151	67.0	6.80	1866	24	11.2	
1152	67.1	6.75	1911	18	16.8	
						(HCL Removed)
						(Highly Reactive)

Did well dewater? Yes No Gallons actually evacuated: 16.8

Sampling Date: 12/1/11 Sampling Time: 1200 Depth to Water: 11.10

Sample I.D.: S-12 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 111201-DW1	Site: 1800 Powell, Emeryville
Sampler: DW	Date: 12/1/11
Well I.D.: S-13	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth (TD): 18.70	Depth to Water (DTW): 10.02
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]: 11.76	

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: _____
---	--	--

$3.2 \text{ (Gals.)} \times 3 = 9.6 \text{ Gals.}$
 I Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1212	65.0	6.64	1691	55	3.2	
1212		well	dewatered @		4.2	
1220	69.0	6.74	7960	>1000		(ACL Removed) Highly reactive

Did well dewater? Yes No Gallons actually evacuated: 4.2

Sampling Date: 12/1/11 Sampling Time: 1220 Depth to Water: 10.94

Sample I.D.: S-13 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 111201-DW1	Site: 1800 Powell, Emeryville
Sampler: DW	Date: 12/1/11
Well I.D.: S-14	Well Diameter: 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): 22.72	Depth to Water (DTW): 9.88
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): <input type="radio"/> YSI <input type="radio"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.45	

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

$4.8 \text{ (Gals.)} \times 3 = 14.4 \text{ Gals.}$ 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>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1119	66.9	6.71	1418	71000	4.8	
1120	67.9	6.78	4738	402	9.6	
1120	68.2	6.75	4824	48	14.4	
						(HCL Removed)
						(Highly Reactive)

Did well dewater? Yes No Gallons actually evacuated: 14.4

Sampling Date: 12/1/11 Sampling Time: 1130 Depth to Water: 10.40

Sample I.D.: S-14 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

INCIDENT #

10175571

ADDRESS

1800 Powell

DATE:

12/1/11

CITY & STATE

Emeryville, CA

Well ID	Observations Upon Arrival														Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition	Repair Date and PM Initials		
	Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition						
S-5	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
S-8	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
S-9	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
S-10	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
S-12	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
S-13	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N		
S-14	Standpipe	Flush	G	P	Size (inch) 6	Y	N	G	R	G	R	NL	G	P		Y	N		
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N		
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N		
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N		
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N		
TOTAL # CAPS REPLACED =									= TOTAL # OF LOCKS REPLACED										
Condition of Soil Boring Patches or Abandoned Monitoring Wells			G	P	N/A	If POOR, Borings/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	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

WELL GAUGING DATA

Project # 120116-WW1

Date 1/16/12

Client SHELL

Site 1800 POWELL ST, EMERYVILLE, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or FOC	Notes
S-5	0823	8	ODOR				8.87	11.71	↓	
S-8	0808	3	ODOR				8.34	17.62		
S-10	0849	6					9.96	19.08		
S-12	0859	3					8.56	23.39		
S-13	0839	3	ODOR				9.80	18.39		
S-14	0829	3					9.69	22.72		

SHELL WELL MONITORING DATA SHEET

BTS #: 120116-WW1	Site: 1800 POWELL ST, EMERYVILLE, CA
Sampler: WW	Date: 1/16/12
Well I.D.: S-5	Well Diameter: 2 3 4 6 <u>8</u>
Total Well Depth (TD): 117.1	Depth to Water (DTW): 8.87
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]: 9.44	

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

7.4 (Gals.) X 3	= 22.28 Gals.	
I Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163
		8"	2.61

Time	Temp (°F)	pH	Cond (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0948	56.6	7.31	2296	16	7.4	
0950	59.5	7.17	2245	8	14.8	
0951	61.2	6.97	2184	11	22.2	

Did well dewater? Yes No Gallons actually evacuated: 22.2

Sampling Date: 1/16/12 Sampling Time: 1000 Depth to Water: 9.37

Sample I.D.: S-5 Laboratory: Test America Other _____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 120116-WW1	Site: 1800 POWELL ST, EMERYVILLE, CA
Sampler: WW	Date: 1/16/12
Well I.D.: S-8	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth (TD): 17.62	Depth to Water (DTW): 7.37
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]: 10.20	

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

$3.4 \text{ (Gals.)} \times 3 = 10.2 \text{ Gals.}$ 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>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
0918	53.8	7.96	1050	300	3.4	odor
0919	57.6	7.68	1040	150	6.8	"
0920	59.0	7.48	1052	106	10.2	

Did well dewater? * Yes No Gallons actually evacuated: 10.2

Sampling Date: 1/16/12 Sampling Time: 0930 Depth to Water: 10.20

Sample I.D.: S-8 Laboratory: Test America Other _____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 120116-WW1	Site: 1800 POWELL ST, EMERYVILLE, CA
Sampler: WW	Date: 1/16/12
Well I.D.: S-10	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 19.08	Depth to Water (DTW): 9.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>Five</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.78	

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

13.4 (Gals.) X 3	= 40.2 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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1104	62.2	7.44	6415	35	13.4	
Well DEWATERED @ 13.4 GALS						
1305	70.4	7.43	8955	285	—	odor

Did well dewater? Yes No Gallons actually evacuated: 13.4

Sampling Date: 1/16/12 Sampling Time: 1305 Depth to Water: 17.16 2 ft

Sample I.D.: S-10 Laboratory: Test America Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other ^{FUEL} FINGERPRINT

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:

SHELL WELL MONITORING DATA SHEET

BTS #: 120116-WW1	Site: 1800 POWELL ST, EMERYVILLE, CA
Sampler: WW	Date: 1/16/12
Well I.D.: S-12	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth (TD): 23.39	Depth to Water (DTW): 8.56
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]: 11.53	

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

5.5 (Gals.) X 3 = 16.5 Gals.
 I Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1136	61.1	7.98	1893	85	5.5	
1143	63.5	7.03	3400	23	11	
1148	64.9	6.83	3660	99	16.5	

Did well dewater? Yes NO Gallons actually evacuated: 16.5

Sampling Date: 1/16/12 Sampling Time: 1155 Depth to Water: 9.74

Sample I.D.: S-12 Laboratory: Test America Other _____

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

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 #: 120116-WW1	Site: 1800 POWER ST, EMERYVILLE, CA
Sampler: WW	Date: 1/16/12
Well I.D.: S-13	Well Diameter: 2 (3) 4 6 8
Total Well Depth (TD): 12.39	Depth to Water (DTW): 9.80
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]: 11.52	

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: _____

3.2 (Gals.) X 3 = 9.6 Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS/cm)	Turbidity (NTUs)	Gals. Removed	Observations
1043	62.7	7.08	1259ms	741	3.2	
1044	65.0	7.92	7732ms	431	6.4	
1045	66.1	6.83	7769ms	809	9.6	

Did well dewater? Yes No Gallons actually evacuated: 9.6

Sampling Date: 1/16/12 Sampling Time: 1050 Depth to Water: 9.80

Sample I.D.: S-13 Laboratory: Test America Other _____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 120116-WW1	Site: 1800 POWER ST, EMERYVILLE, CA
Sampler: WW	Date: 1/16/12
Well I.D.: S-14	Well Diameter: 2 (3) 4 6 8
Total Well Depth (TD): 22.72	Depth to Water (DTW): 9.69
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.30	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible

Water: Watterra Peristaltic Extraction Pump Other _____

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing

Other: _____

$4.8 \text{ (Gals.)} \times 3 = 14.4 \text{ Gals.}$	<table border="1" style="font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1014	61.2	7.08	3511	3508 69	4.8	
1015	64.7	6.75	3928	192	9.6	
1016	66.5	6.68	4276	26	14.4	

Did well dewater? Yes No Gallons actually evacuated: 14.4

Sampling Date: 1/16/12 Sampling Time: 1025 Depth to Water: 9.88

Sample I.D.: S-14 Laboratory: (Test America) Other _____

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

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

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

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

INCIDENT # 78945344

DATE: 1/16/12

ADDRESS 1200 POWELL ST, EMERYVILLE, CA

CITY & STATE EMERYVILLE, CA

Well ID	Observations Upon Arrival													Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials						
	Manway Cover, Type, Condition & Size					Well Labeled/ Painted Properly		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad/ Surface Condition										
S-5	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N						
S-8	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N						
S-10	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N						
S-12	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N						
S-13	Standpipe	Flush	G	P	Size (inch) 10	Y	N	G	R	G	R	NL	G	P		Y	N						
S-14	Standpipe	Flush	G	P	Size (inch) 8	Y	N	G	R	G	R	NL	G	P		Y	N						
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N						
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N						
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N						
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N						
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N						
TOTAL # CAPS REPLACED =										0	= TOTAL # OF LOCKS REPLACED												
Condition of Soil Boring Patches of Abandoned Monitoring Wells			G	P	N/A	If POOR, Borings/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		Y N N/A						Y N					

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

WILLIAM WONG / BLAKE TECH SERVICE
Print or type Name of Field Personnel & Consultant Company

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

APPENDIX B

TEST AMERICA -
LABORATORY REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

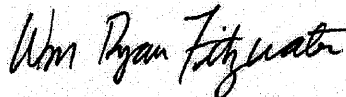
ANALYTICAL REPORT

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

TestAmerica Job ID: NVL0528
Client Project/Site: SAP 135703
Client Project Description: 1800 Powell St, Emeryville, CA

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

Attn: Peter Schaefer



Authorized for release by:
12/28/2011 4:12:54 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

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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Certification Summary	21
Chain of Custody	22

Sample Summary

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

TestAmerica Job ID: NVL0528

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NVL0528-01	S-5	Ground Water	12/01/11 13:30	12/03/11 08:35
NVL0528-02	S-8	Ground Water	12/01/11 13:00	12/03/11 08:35
NVL0528-03	S-10	Ground Water	12/01/11 14:40	12/03/11 08:35
NVL0528-04	S-12	Ground Water	12/01/11 12:00	12/03/11 08:35
NVL0528-05	S-13	Ground Water	12/01/11 12:20	12/03/11 08:35
NVL0528-06	S-14	Ground Water	12/01/11 11:30	12/03/11 08:35

Case Narrative

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

TestAmerica Job ID: NVL0528

Job ID: NVL0528

Laboratory: TestAmerica Nashville

Narrative

TPH DRO CA samples received without preservation. Samples extracted within seven days per EPA recommendation. TPH DRO CA sample extracts silica gel treated prior to analysis.

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
Project/Site: SAP 135703

TestAmerica Job ID: NVL0528

Qualifiers

GC Semivolatiles

Qualifier	Qualifier Description
QSG	Silica Gel clean-up performed on extracts.
H2	Initial analysis within holding time. Reanalysis for the required dilution or confirmation was past holding time.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Glossary

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: NVL0528

Client Sample ID: S-5

Lab Sample ID: NVL0528-01

Date Collected: 12/01/11 13:30

Matrix: Ground Water

Date Received: 12/03/11 08:35

Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	280		50		ug/L		12/03/11 17:48	12/09/11 22:28	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	99		70 - 130				12/03/11 17:48	12/09/11 22:28	1.0
Dibromofluoromethane	98		70 - 130				12/03/11 17:48	12/09/11 22:28	1.0
Toluene-d8	104		70 - 130				12/03/11 17:48	12/09/11 22:28	1.0
4-Bromofluorobenzene	102		70 - 130				12/03/11 17:48	12/09/11 22:28	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		12/03/11 17:48	12/09/11 22:28	1.00
Ethylbenzene	ND		0.500		ug/L		12/03/11 17:48	12/09/11 22:28	1.00
Toluene	ND		0.500		ug/L		12/03/11 17:48	12/09/11 22:28	1.00
Xylenes, total	2.23		0.500		ug/L		12/03/11 17:48	12/09/11 22:28	1.00
Methyl tert-Butyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 22:28	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/03/11 17:48	12/09/11 22:28	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 22:28	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 22:28	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 22:28	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	104		70 - 130				12/03/11 17:48	12/09/11 22:28	1.00
Dibromofluoromethane	103		70 - 130				12/03/11 17:48	12/09/11 22:28	1.00
Toluene-d8	99		70 - 130				12/03/11 17:48	12/09/11 22:28	1.00
4-Bromofluorobenzene	98		70 - 130				12/03/11 17:48	12/09/11 22:28	1.00

Client Sample Results

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

TestAmerica Job ID: NVL0528

Client Sample ID: S-8

Lab Sample ID: NVL0528-02

Date Collected: 12/01/11 13:00

Matrix: Ground Water

Date Received: 12/03/11 08:35

Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	150		50		ug/L		12/03/11 17:48	12/09/11 22:54	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	98		70 - 130				12/03/11 17:48	12/09/11 22:54	1.0
Dibromofluoromethane	98		70 - 130				12/03/11 17:48	12/09/11 22:54	1.0
Toluene-d8	101		70 - 130				12/03/11 17:48	12/09/11 22:54	1.0
4-Bromofluorobenzene	102		70 - 130				12/03/11 17:48	12/09/11 22:54	1.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.05		0.500		ug/L		12/03/11 17:48	12/09/11 22:54	1.00
Ethylbenzene	ND		0.500		ug/L		12/03/11 17:48	12/09/11 22:54	1.00
Toluene	ND		0.500		ug/L		12/03/11 17:48	12/09/11 22:54	1.00
Xylenes, total	3.94		0.500		ug/L		12/03/11 17:48	12/09/11 22:54	1.00
Methyl tert-Butyl Ether	24.7		0.500		ug/L		12/03/11 17:48	12/09/11 22:54	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/03/11 17:48	12/09/11 22:54	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 22:54	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 22:54	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 22:54	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	103		70 - 130				12/03/11 17:48	12/09/11 22:54	1.00
Dibromofluoromethane	103		70 - 130				12/03/11 17:48	12/09/11 22:54	1.00
Toluene-d8	96		70 - 130				12/03/11 17:48	12/09/11 22:54	1.00
4-Bromofluorobenzene	99		70 - 130				12/03/11 17:48	12/09/11 22:54	1.00

Client Sample Results

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

TestAmerica Job ID: NVL0528

Client Sample ID: S-10

Lab Sample ID: NVL0528-03

Date Collected: 12/01/11 14:40

Matrix: Ground Water

Date Received: 12/03/11 08:35

Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	430		50		ug/L		12/03/11 17:48	12/09/11 23:21	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	100		70 - 130				12/03/11 17:48	12/09/11 23:21	1.0
Dibromofluoromethane	97		70 - 130				12/03/11 17:48	12/09/11 23:21	1.0
Toluene-d8	99		70 - 130				12/03/11 17:48	12/09/11 23:21	1.0
4-Bromofluorobenzene	100		70 - 130				12/03/11 17:48	12/09/11 23:21	1.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.87		0.500		ug/L		12/03/11 17:48	12/09/11 23:21	1.00
Ethylbenzene	ND		0.500		ug/L		12/03/11 17:48	12/09/11 23:21	1.00
Toluene	0.680		0.500		ug/L		12/03/11 17:48	12/09/11 23:21	1.00
Xylenes, total	6.85		0.500		ug/L		12/03/11 17:48	12/09/11 23:21	1.00
Methyl tert-Butyl Ether	22.0		0.500		ug/L		12/03/11 17:48	12/09/11 23:21	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/03/11 17:48	12/09/11 23:21	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 23:21	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 23:21	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 23:21	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	105		70 - 130				12/03/11 17:48	12/09/11 23:21	1.00
Dibromofluoromethane	101		70 - 130				12/03/11 17:48	12/09/11 23:21	1.00
Toluene-d8	94		70 - 130				12/03/11 17:48	12/09/11 23:21	1.00
4-Bromofluorobenzene	97		70 - 130				12/03/11 17:48	12/09/11 23:21	1.00

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	10100	H2 QSG	190		ug/L		12/19/11 17:42	12/20/11 11:44	4.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	50		50 - 150				12/19/11 17:42	12/20/11 11:44	4.00

Client Sample Results

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

TestAmerica Job ID: NVL0528

Client Sample ID: S-12

Lab Sample ID: NVL0528-04

Date Collected: 12/01/11 12:00

Matrix: Ground Water

Date Received: 12/03/11 08:35

Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	200		50		ug/L		12/03/11 17:48	12/09/11 23:47	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	102		70 - 130				12/03/11 17:48	12/09/11 23:47	1.0
Dibromofluoromethane	99		70 - 130				12/03/11 17:48	12/09/11 23:47	1.0
Toluene-d8	102		70 - 130				12/03/11 17:48	12/09/11 23:47	1.0
4-Bromofluorobenzene	102		70 - 130				12/03/11 17:48	12/09/11 23:47	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		12/03/11 17:48	12/09/11 23:47	1.00
Ethylbenzene	ND		0.500		ug/L		12/03/11 17:48	12/09/11 23:47	1.00
Toluene	ND		0.500		ug/L		12/03/11 17:48	12/09/11 23:47	1.00
Xylenes, total	0.970		0.500		ug/L		12/03/11 17:48	12/09/11 23:47	1.00
Methyl tert-Butyl Ether	54.3		0.500		ug/L		12/03/11 17:48	12/09/11 23:47	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/03/11 17:48	12/09/11 23:47	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 23:47	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 23:47	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/09/11 23:47	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	107		70 - 130				12/03/11 17:48	12/09/11 23:47	1.00
Dibromofluoromethane	104		70 - 130				12/03/11 17:48	12/09/11 23:47	1.00
Toluene-d8	97		70 - 130				12/03/11 17:48	12/09/11 23:47	1.00
4-Bromofluorobenzene	98		70 - 130				12/03/11 17:48	12/09/11 23:47	1.00

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	15600	H2 QSG	485		ug/L		12/19/11 17:42	12/20/11 12:01	10.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	48	ZX	50 - 150				12/19/11 17:42	12/20/11 12:01	10.0

Client Sample Results

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

TestAmerica Job ID: NVL0528

Client Sample ID: S-13

Lab Sample ID: NVL0528-05

Date Collected: 12/01/11 12:20

Matrix: Ground Water

Date Received: 12/03/11 08:35

Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	580		50		ug/L		12/03/11 17:48	12/10/11 00:14	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	102		70 - 130				12/03/11 17:48	12/10/11 00:14	1.0
Dibromofluoromethane	94		70 - 130				12/03/11 17:48	12/10/11 00:14	1.0
Toluene-d8	101		70 - 130				12/03/11 17:48	12/10/11 00:14	1.0
4-Bromofluorobenzene	102		70 - 130				12/03/11 17:48	12/10/11 00:14	1.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.20		0.500		ug/L		12/03/11 17:48	12/10/11 00:14	1.00
Ethylbenzene	ND		0.500		ug/L		12/03/11 17:48	12/10/11 00:14	1.00
Toluene	1.02		0.500		ug/L		12/03/11 17:48	12/10/11 00:14	1.00
Xylenes, total	5.80		0.500		ug/L		12/03/11 17:48	12/10/11 00:14	1.00
Methyl tert-Butyl Ether	67.0		0.500		ug/L		12/03/11 17:48	12/10/11 00:14	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/03/11 17:48	12/10/11 00:14	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/10/11 00:14	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/10/11 00:14	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/10/11 00:14	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	107		70 - 130				12/03/11 17:48	12/10/11 00:14	1.00
Dibromofluoromethane	98		70 - 130				12/03/11 17:48	12/10/11 00:14	1.00
Toluene-d8	96		70 - 130				12/03/11 17:48	12/10/11 00:14	1.00
4-Bromofluorobenzene	98		70 - 130				12/03/11 17:48	12/10/11 00:14	1.00

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	9100	H2 QSG	240		ug/L		12/19/11 17:42	12/20/11 12:17	5.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				12/19/11 17:42	12/20/11 12:17	5.00

Client Sample Results

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

TestAmerica Job ID: NVL0528

Client Sample ID: S-14

Lab Sample ID: NVL0528-06

Date Collected: 12/01/11 11:30

Matrix: Ground Water

Date Received: 12/03/11 08:35

Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	120		50		ug/L		12/03/11 17:48	12/10/11 00:41	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	99		70 - 130				12/03/11 17:48	12/10/11 00:41	1.0
Dibromofluoromethane	97		70 - 130				12/03/11 17:48	12/10/11 00:41	1.0
Toluene-d8	103		70 - 130				12/03/11 17:48	12/10/11 00:41	1.0
4-Bromofluorobenzene	104		70 - 130				12/03/11 17:48	12/10/11 00:41	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		12/03/11 17:48	12/10/11 00:41	1.00
Ethylbenzene	ND		0.500		ug/L		12/03/11 17:48	12/10/11 00:41	1.00
Toluene	ND		0.500		ug/L		12/03/11 17:48	12/10/11 00:41	1.00
Xylenes, total	ND		0.500		ug/L		12/03/11 17:48	12/10/11 00:41	1.00
Methyl tert-Butyl Ether	1.46		0.500		ug/L		12/03/11 17:48	12/10/11 00:41	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/03/11 17:48	12/10/11 00:41	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/10/11 00:41	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/10/11 00:41	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/03/11 17:48	12/10/11 00:41	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	104		70 - 130				12/03/11 17:48	12/10/11 00:41	1.00
Dibromofluoromethane	102		70 - 130				12/03/11 17:48	12/10/11 00:41	1.00
Toluene-d8	98		70 - 130				12/03/11 17:48	12/10/11 00:41	1.00
4-Bromofluorobenzene	101		70 - 130				12/03/11 17:48	12/10/11 00:41	1.00

Method: SW846 8015B - Extractable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	7610	H2 QSG	263		ug/L		12/19/11 17:42	12/20/11 12:33	5.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	48	ZX	50 - 150				12/19/11 17:42	12/20/11 12:33	5.00

QC Sample Results

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

TestAmerica Job ID: NVL0528

Method: CA LUFT GC/MS - Purgeable Petroleum Hydrocarbons

Lab Sample ID: 11L0874-BLK1
 Matrix: Water
 Analysis Batch: U021672

Client Sample ID: Method Blank
 Prep Type: Total
 Prep Batch: 11L0874_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		50		ug/L		12/03/11 17:42	12/09/11 17:35	1.0
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	96		70 - 130				12/03/11 17:42	12/09/11 17:35	1.0
Dibromofluoromethane	97		70 - 130				12/03/11 17:42	12/09/11 17:35	1.0
Toluene-d8	103		70 - 130				12/03/11 17:42	12/09/11 17:35	1.0
4-Bromofluorobenzene	101		70 - 130				12/03/11 17:42	12/09/11 17:35	1.0

Lab Sample ID: 11L0874-BS2
 Matrix: Water
 Analysis Batch: U021672

Client Sample ID: Lab Control Sample
 Prep Type: Total
 Prep Batch: 11L0874_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	500	380		ug/L		76	67 - 130
Surrogate							
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4	99		70 - 130				
Dibromofluoromethane	97		70 - 130				
Toluene-d8	104		70 - 130				
4-Bromofluorobenzene	103		70 - 130				

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

Lab Sample ID: 11L0874-BLK1
 Matrix: Water
 Analysis Batch: U021672

Client Sample ID: Method Blank
 Prep Type: Total
 Prep Batch: 11L0874_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L		12/03/11 17:42	12/09/11 17:35	1.00
Ethylbenzene	ND		0.500		ug/L		12/03/11 17:42	12/09/11 17:35	1.00
Toluene	ND		0.500		ug/L		12/03/11 17:42	12/09/11 17:35	1.00
Xylenes, total	ND		0.500		ug/L		12/03/11 17:42	12/09/11 17:35	1.00
Methyl tert-Butyl Ether	ND		0.500		ug/L		12/03/11 17:42	12/09/11 17:35	1.00
Tertiary Butyl Alcohol	ND		10.0		ug/L		12/03/11 17:42	12/09/11 17:35	1.00
Diisopropyl Ether	ND		0.500		ug/L		12/03/11 17:42	12/09/11 17:35	1.00
Ethyl tert-Butyl Ether	ND		0.500		ug/L		12/03/11 17:42	12/09/11 17:35	1.00
Tert-Amyl Methyl Ether	ND		0.500		ug/L		12/03/11 17:42	12/09/11 17:35	1.00
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	101		70 - 130				12/03/11 17:42	12/09/11 17:35	1.00
Dibromofluoromethane	102		70 - 130				12/03/11 17:42	12/09/11 17:35	1.00
Toluene-d8	98		70 - 130				12/03/11 17:42	12/09/11 17:35	1.00
4-Bromofluorobenzene	97		70 - 130				12/03/11 17:42	12/09/11 17:35	1.00

QC Sample Results

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

TestAmerica Job ID: NVL0528

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

Lab Sample ID: 11L0874-BS1

Matrix: Water

Analysis Batch: U021672

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11L0874_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	50.0	47.8		ug/L		96	80 - 121
Ethylbenzene	50.0	49.5		ug/L		99	80 - 130
Toluene	50.0	48.3		ug/L		97	80 - 126
Xylenes, total	150	143		ug/L		95	80 - 132
Methyl tert-Butyl Ether	50.0	52.3		ug/L		105	72 - 133
Tertiary Butyl Alcohol	500	325		ug/L		65	54 - 150
Diisopropyl Ether	50.0	49.5		ug/L		99	62 - 137
Ethyl tert-Butyl Ether	50.0	55.5		ug/L		111	63 - 135
Tert-Amyl Methyl Ether	50.0	52.6		ug/L		105	63 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4	111		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8	98		70 - 130
4-Bromofluorobenzene	102		70 - 130

Lab Sample ID: 11L0874-MS1

Matrix: Water

Analysis Batch: U021672

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 11L0874_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
Benzene	ND		25000	25800		ug/L		103	75 - 133
Ethylbenzene	ND		25000	26100		ug/L		104	79 - 139
Toluene	ND		25000	25400		ug/L		102	75 - 136
Xylenes, total	ND		75000	75400		ug/L		101	74 - 141
Methyl tert-Butyl Ether	ND		25000	29200		ug/L		117	66 - 141
Tertiary Butyl Alcohol	25700		250000	298000		ug/L		109	50 - 183
Diisopropyl Ether	ND		25000	26600		ug/L		106	54 - 147
Ethyl tert-Butyl Ether	ND		25000	29800		ug/L		119	60 - 138
Tert-Amyl Methyl Ether	ND		25000	29700		ug/L		119	61 - 138

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits
1,2-Dichloroethane-d4	119		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8	99		70 - 130
4-Bromofluorobenzene	104		70 - 130

Lab Sample ID: 11L0874-MSD1

Matrix: Water

Analysis Batch: U021672

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 11L0874_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		25000	26400		ug/L		106	75 - 133	3	17
Ethylbenzene	ND		25000	26300		ug/L		105	79 - 139	0.8	15
Toluene	ND		25000	25500		ug/L		102	75 - 136	0.4	15
Xylenes, total	ND		75000	75800		ug/L		101	74 - 141	0.5	15
Methyl tert-Butyl Ether	ND		25000	30600		ug/L		122	66 - 141	5	16
Tertiary Butyl Alcohol	25700		250000	311000		ug/L		114	50 - 183	4	32
Diisopropyl Ether	ND		25000	27300		ug/L		109	54 - 147	3	19

QC Sample Results

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

TestAmerica Job ID: NVL0528

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

Lab Sample ID: 11L0874-MSD1

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total

Analysis Batch: U021672

Prep Batch: 11L0874_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Ethyl tert-Butyl Ether	ND		25000	31100		ug/L		124	60 - 138	4	19
Tert-Amyl Methyl Ether	ND		25000	30800		ug/L		123	61 - 138	4	15
Surrogate	%Recovery	Qualifier	Matrix Spike Dup								
1,2-Dichloroethane-d4	121		70 - 130								
Dibromofluoromethane	96		70 - 130								
Toluene-d8	97		70 - 130								
4-Bromofluorobenzene	103		70 - 130								

Method: SW846 8015B - Extractable Petroleum Hydrocarbons

Lab Sample ID: 11L0991-BLK1

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total

Analysis Batch: U021596

Prep Batch: 11L0991_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel	ND		50.0		ug/L		12/05/11 07:00	12/08/11 20:58	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	104		50 - 150				12/05/11 07:00	12/08/11 20:58	1.00

Lab Sample ID: 11L0991-BLK2

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total

Analysis Batch: U022358

Prep Batch: 11L0991_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel	ND	QSG	50.0		ug/L		12/19/11 17:42	12/20/11 11:12	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150				12/19/11 17:42	12/20/11 11:12	1.00

Lab Sample ID: 11L0991-BS1

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total

Analysis Batch: U021596

Prep Batch: 11L0991_P

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Diesel	1000	780		ug/L		78	46 - 132
Surrogate	%Recovery	LCS					
o-Terphenyl	93	50 - 150					

Lab Sample ID: 11L0991-BS2

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total

Analysis Batch: U022358

Prep Batch: 11L0991_P

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Diesel	1000	818	QSG	ug/L		82	46 - 132

QC Sample Results

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

TestAmerica Job ID: NVL0528

Method: SW846 8015B - Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11L0991-BS2
 Matrix: Water
 Analysis Batch: U022358

Client Sample ID: Lab Control Sample
 Prep Type: Total
 Prep Batch: 11L0991_P

Surrogate	LCS		Limits
	%Recovery	Qualifier	
o-Terphenyl	93		50 - 150

Lab Sample ID: 11L0991-MS1
 Matrix: Water
 Analysis Batch: U021596

Client Sample ID: Matrix Spike
 Prep Type: Total
 Prep Batch: 11L0991_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Diesel	1210		990	1910		ug/L		70	10 - 138

Surrogate	Matrix Spike		Limits
	%Recovery	Qualifier	
o-Terphenyl	74		50 - 150

Lab Sample ID: 11L0991-MSD1
 Matrix: Water
 Analysis Batch: U021596

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total
 Prep Batch: 11L0991_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Diesel	1210		943	2040		ug/L		88	10 - 138	7		31

Surrogate	Matrix Spike Dup		Limits
	%Recovery	Qualifier	
o-Terphenyl	79		50 - 150

QC Association Summary

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

TestAmerica Job ID: NVL0528

GCMS Volatiles

Analysis Batch: U021672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L0874-BLK1	Method Blank	Total	Water	SW846 8260B	11L0874_P
11L0874-BLK1	Method Blank	Total	Water	CA LUFT GC/MS	11L0874_P
11L0874-BS1	Lab Control Sample	Total	Water	SW846 8260B	11L0874_P
11L0874-BS2	Lab Control Sample	Total	Water	CA LUFT GC/MS	11L0874_P
11L0874-MS1	Matrix Spike	Total	Water	SW846 8260B	11L0874_P
11L0874-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11L0874_P
NVL0528-01	S-5	Total	Ground Water	SW846 8260B	11L0874_P
NVL0528-01	S-5	Total	Ground Water	CA LUFT GC/MS	11L0874_P
NVL0528-02	S-8	Total	Ground Water	SW846 8260B	11L0874_P
NVL0528-02	S-8	Total	Ground Water	CA LUFT GC/MS	11L0874_P
NVL0528-03	S-10	Total	Ground Water	SW846 8260B	11L0874_P
NVL0528-03	S-10	Total	Ground Water	CA LUFT GC/MS	11L0874_P
NVL0528-04	S-12	Total	Ground Water	SW846 8260B	11L0874_P
NVL0528-04	S-12	Total	Ground Water	CA LUFT GC/MS	11L0874_P
NVL0528-05	S-13	Total	Ground Water	SW846 8260B	11L0874_P
NVL0528-05	S-13	Total	Ground Water	CA LUFT GC/MS	11L0874_P
NVL0528-06	S-14	Total	Ground Water	SW846 8260B	11L0874_P
NVL0528-06	S-14	Total	Ground Water	CA LUFT GC/MS	11L0874_P

Prep Batch: 11L0874_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L0874-BLK1	Method Blank	Total	Water	EPA 5030B	
11L0874-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11L0874-BS2	Lab Control Sample	Total	Water	EPA 5030B	
11L0874-MS1	Matrix Spike	Total	Water	EPA 5030B	
11L0874-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NVL0528-01	S-5	Total	Ground Water	EPA 5030B	
NVL0528-02	S-8	Total	Ground Water	EPA 5030B	
NVL0528-03	S-10	Total	Ground Water	EPA 5030B	
NVL0528-04	S-12	Total	Ground Water	EPA 5030B	
NVL0528-05	S-13	Total	Ground Water	EPA 5030B	
NVL0528-06	S-14	Total	Ground Water	EPA 5030B	

GC Semivolatiles

Analysis Batch: U021596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L0991-BLK1	Method Blank	Total	Water	SW846 8015B	11L0991_P
11L0991-BS1	Lab Control Sample	Total	Water	SW846 8015B	11L0991_P
11L0991-MS1	Matrix Spike	Total	Water	SW846 8015B	11L0991_P
11L0991-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8015B	11L0991_P

Analysis Batch: U022358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L0991-BLK2	Method Blank	Total	Water	SW846 8015B	11L0991_P
11L0991-BS2	Lab Control Sample	Total	Water	SW846 8015B	11L0991_P
NVL0528-03 - RE1	S-10	Total	Ground Water	SW846 8015B	11L0991_P
NVL0528-04 - RE1	S-12	Total	Ground Water	SW846 8015B	11L0991_P
NVL0528-05 - RE1	S-13	Total	Ground Water	SW846 8015B	11L0991_P
NVL0528-06 - RE1	S-14	Total	Ground Water	SW846 8015B	11L0991_P

QC Association Summary

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

TestAmerica Job ID: NVL0528

GC Semivolatiles (Continued)

Prep Batch: 11L0991_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L0991-BLK1	Method Blank	Total	Water	EPA 3510C	
11L0991-BLK2	Method Blank	Total	Water	EPA 3510C	
11L0991-BS1	Lab Control Sample	Total	Water	EPA 3510C	
11L0991-BS2	Lab Control Sample	Total	Water	EPA 3510C	
11L0991-MS1	Matrix Spike	Total	Water	EPA 3510C	
11L0991-MSD1	Matrix Spike Duplicate	Total	Water	EPA 3510C	
NVL0528-03 - RE1	S-10	Total	Ground Water	EPA 3510C	
NVL0528-04 - RE1	S-12	Total	Ground Water	EPA 3510C	
NVL0528-05 - RE1	S-13	Total	Ground Water	EPA 3510C	
NVL0528-06 - RE1	S-14	Total	Ground Water	EPA 3510C	

Lab Chronicle

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

TestAmerica Job ID: NVL0528

Client Sample ID: S-5

Lab Sample ID: NVL0528-01

Date Collected: 12/01/11 13:30

Matrix: Ground Water

Date Received: 12/03/11 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U021672	12/09/11 22:28	FNE	TAL NSH
Total	Prep	EPA 5030B		1.0	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U021672	12/09/11 22:28	FNE	TAL NSH

Client Sample ID: S-8

Lab Sample ID: NVL0528-02

Date Collected: 12/01/11 13:00

Matrix: Ground Water

Date Received: 12/03/11 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U021672	12/09/11 22:54	FNE	TAL NSH
Total	Prep	EPA 5030B		1.0	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U021672	12/09/11 22:54	FNE	TAL NSH

Client Sample ID: S-10

Lab Sample ID: NVL0528-03

Date Collected: 12/01/11 14:40

Matrix: Ground Water

Date Received: 12/03/11 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U021672	12/09/11 23:21	FNE	TAL NSH
Total	Prep	EPA 5030B		1.0	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U021672	12/09/11 23:21	FNE	TAL NSH
Total	Prep	EPA 3510C	RE1	0.952	11L0991_P	12/19/11 17:42	AMJ	TAL NSH
Total	Analysis	SW846 8015B	RE1	4.00	U022358	12/20/11 11:44	KKH	TAL NSH

Client Sample ID: S-12

Lab Sample ID: NVL0528-04

Date Collected: 12/01/11 12:00

Matrix: Ground Water

Date Received: 12/03/11 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U021672	12/09/11 23:47	FNE	TAL NSH
Total	Prep	EPA 5030B		1.0	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U021672	12/09/11 23:47	FNE	TAL NSH
Total	Prep	EPA 3510C	RE1	0.971	11L0991_P	12/19/11 17:42	AMJ	TAL NSH
Total	Analysis	SW846 8015B	RE1	10.0	U022358	12/20/11 12:01	KKH	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: NVL0528

Client Sample ID: S-13

Lab Sample ID: NVL0528-05

Date Collected: 12/01/11 12:20

Matrix: Ground Water

Date Received: 12/03/11 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U021672	12/10/11 00:14	FNE	TAL NSH
Total	Prep	EPA 5030B		1.0	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U021672	12/10/11 00:14	FNE	TAL NSH
Total	Prep	EPA 3510C	RE1	0.962	11L0991_P	12/19/11 17:42	AMJ	TAL NSH
Total	Analysis	SW846 8015B	RE1	5.00	U022358	12/20/11 12:17	KKH	TAL NSH

Client Sample ID: S-14

Lab Sample ID: NVL0528-06

Date Collected: 12/01/11 11:30

Matrix: Ground Water

Date Received: 12/03/11 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U021672	12/10/11 00:41	FNE	TAL NSH
Total	Prep	EPA 5030B		1.0	11L0874_P	12/03/11 17:48	TSP	TAL NSH
Total	Analysis	CA LUFT GC/MS		1.0	U021672	12/10/11 00:41	FNE	TAL NSH
Total	Prep	EPA 3510C	RE1	1.05	11L0991_P	12/19/11 17:42	AMJ	TAL NSH
Total	Analysis	SW846 8015B	RE1	5.00	U022358	12/20/11 12:33	KKH	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: NVL0528

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
SW846 8015B	Extractable Petroleum Hydrocarbons		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: NVL0528

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



Cooler Received/Opened On 12/3/2011 @ 8:35

NVL0528

1. Tracking # 9579 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 20 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 feet

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......NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (Initial) J

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

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

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

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

LAB (LOCATION)



Shell Oil Products Chain Of Custody Record

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

Please Check Appropriate Box

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTTVA 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 240894

INCIDENT # (ENV SERVICES) 9 8 9 9 5 3 4 9

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

SAP #

CHECK IF NO INCIDENT # APPLIES

DATE: 12/1/11

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

ADDRESS: 1680 Rogers Avenue, San Jose, CA

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

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

SITE ADDRESS: Street and City: 1800 Powell St., Emeryville

State: CA GLOBAL ID NO.: T0600101231

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

PHONE NO.: 510-420-3343 E-MAIL: shelledf@croworld.com

SAMPLER NAME(S) (Print): Danrel Allen

CONSULTANT PROJECT NO.: 11112/DW1

TURNAROUND TIME (CALENDAR DAYS):

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

RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

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

Run TPH-D w/ Silica Gel Clean Up

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH -GRO, Purgeable (8260E)	TPH -DRO, Extractable (8016M)	TPHg (8016M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXY's (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260E)	Single Compound: (8260E)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260E)	Methanol (8016M)	TEMPERATURE ON RECEPT °C	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER																
	S-5	12/1/11	1330	WG				X		5	X	X					X							2.8 2.6	NO DRO HCL REMOVED
	S-8	12/1/11	1300	WG				X		5	X	X					X								NO DRO HCL REMOVED
	S-10	12/1/11	1440	WG				X		5	X	X					X								HCL REMOVED
	S-12	12/1/11	1200	WG				X		5	X	X					X								HCL REMOVED
	S-13	12/1/11	1220	WG				X		5	X	X					X								HCL REMOVED
	S-14	12/1/11	1130	WG				X		5	X	X					X								HCL REMOVED

Relinquished by: (Signature) Danrel Allen	Received by: (Signature) Danrel Allen	Date: 12/1/11	Time: 1600
Relinquished by: (Signature) [Signature]	Received by: (Signature) [Signature]	Date: 12/2/11	Time: 1050
Relinquished by: (Signature) [Signature] 12-2-11 16:00	Received by: (Signature) [Signature] J.A. NASH	Date: 12-3-11	Time: 08:35

12/28/2011 Page 23 of 24

COOLER RECEIPT FORM

Cooler Received/Opened On 12/3/2011@ 8:35

1. Tracking # 9580 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID Raynger

2. Temperature of rep. sample or temp blank when opened: 2.8 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) JH

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 # NA

I certify that I unloaded the cooler and answered questions 7-14 (Initial) J

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

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

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

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

LABORATORY REPORT

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

Project: 1800 Powell St., Emeryville, CA

Sampled: 01/16/12
Received: 01/18/12
Issued: 01/25/12 12:22

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

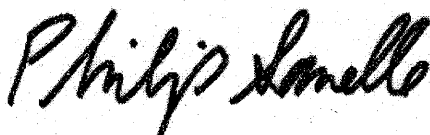
The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report.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

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IVA1639-01	S-5	Water
IVA1639-02	S-8	Water
IVA1639-03	S-10	Water
IVA1639-04	S-12	Water
IVA1639-05	S-13	Water
IVA1639-06	S-14	Water

Reviewed By:



TestAmerica Irvine

Philip Sanelle
Project Manager

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

Project ID: 1800 Powell St., Emeryville, CA

Report Number: IVA1639

Sampled: 01/16/12

Received: 01/18/12

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015B w/ Silica Gel Clean-up)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IVA1639-01 (S-5 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	12A2774	150	7300	3	1/23/2012	1/24/2012	
Surrogate: n-Octacosane (45-120%)				142 %				ZX
Sample ID: IVA1639-02 (S-8 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	12A2774	95	1400	1.9	1/23/2012	1/24/2012	
Surrogate: n-Octacosane (45-120%)				75 %				
Sample ID: IVA1639-03 (S-10 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	12A2774	48	5700	0.952	1/23/2012	1/24/2012	
Surrogate: n-Octacosane (45-120%)				134 %				ZX
Sample ID: IVA1639-04 (S-12 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	12A2774	48	1800	0.952	1/23/2012	1/24/2012	
Surrogate: n-Octacosane (45-120%)				75 %				QP1
Sample ID: IVA1639-05 (S-13 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	12A2774	49	1200	0.971	1/23/2012	1/24/2012	
Surrogate: n-Octacosane (45-120%)				91 %				
Sample ID: IVA1639-06 (S-14 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	12A2774	47	1400	0.948	1/23/2012	1/24/2012	
Surrogate: n-Octacosane (45-120%)				87 %				

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Blaine Tech San Jose/CRA Shell 1680 Rogers Avenue San Jose, CA 95112-1105 Attention: Lorin King	Project ID: 1800 Powell St., Emeryville, CA Report Number: IVA1639	Sampled: 01/16/12 Received: 01/18/12
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METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015B w/ Silica Gel Clean-up)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12A2774 Extracted: 01/23/12										
Blank Analyzed: 01/24/2012 (12A2774-BLK1)										
DRO (C10-C28)	ND	50	ug/l							
Surrogate: n-Octacosane	138		ug/l	200		69	45-120			
LCS Analyzed: 01/24/2012 (12A2774-BS1)										
DRO (C10-C28)	891	50	ug/l	1000		89	40-115			MNR1
Surrogate: n-Octacosane	197		ug/l	200		98	45-120			
LCS Dup Analyzed: 01/24/2012 (12A2774-BSD1)										
DRO (C10-C28)	794	50	ug/l	1000		79	40-115	12	25	
Surrogate: n-Octacosane	175		ug/l	200		88	45-120			

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San Jose, CA 95112-1105
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DATA QUALIFIERS AND DEFINITIONS

- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- QP1** Hydrocarbon result partly due to individual peak(s) in quantitation range.
- ZX** Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO):

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

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San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 1800 Powell St., Emeryville, CA

Report Number: IVA1639

Sampled: 01/16/12
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Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 8015B	Water	X	X

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

TestAmerica Irvine

Philip Sanelle
Project Manager

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LAB (LOCATION)



Shell Oil Products Chain Of Custody Record

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

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 240894

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

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

9 8 9 9 5 3 4 9

DATE: 1/16/12

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City
1800 Powell St., Emeryville

State: CA GLOBAL ID NO.: T0600101231

ADDRESS: 1680 Rogers Avenue, San Jose, CA

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

PHONE NO.: 510-420-3343

E-MAIL: shelledf@croworld.com

CONSULTANT PROJECT NO.: 120716-ww

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

SAMPLER NAME(S) (Print): WILHELM WONG

LAB USE ONLY: FVA1639

TELEPHONE: 310-995-4455 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

LA - RWQCB REPORT FORMAT UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

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

Run TPH-D w/ Silica Gel Clean Up

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

TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHg (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT 5.2
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LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHg (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER															
		S-5	1/16/12		1000	W																		
S-8		0930					2		2	8														
S-10		1305					2		2	8														
S-12		1155					2		2	8														
S-13		1050					2		2	8														
S-14		1025					2		2	8														

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i> 3 AMMA WSTODIAN	Date: 1/16/12	Time: 1522
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i> Gerald Naylor	Date: 1/17/12	Time: 1100
Relinquished by: (Signature) <i>[Signature]</i> 1-17-12 18:00	Received by: (Signature) <i>[Signature]</i> Van Buren	Date: 1/18/12	Time: 10:00