



**CONESTOGA-ROVERS
& ASSOCIATES**

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TRANSMITTAL

DATE: November 12, 2012 REFERENCE NO.: 240524
PROJECT NAME: 4255 MacArthur Boulevard, Oakland
TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

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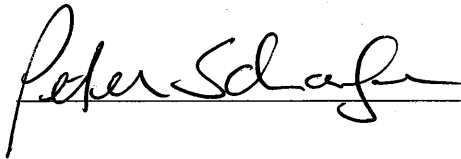
QUANTITY	DESCRIPTION
1	Groundwater Monitoring and Remediation Report - Third Quarter 2012

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)
Roland C. Malone Jr. Trust (property owner), Erik Parrish, Trustee (electronic copy)
Kenneth Williams, MacArthur/High Trailer Park, c/o Bookkeeping, 332 Peyton Drive,
Hayward, CA 94544
Ed C. Ralston, ConocoPhillips Risk Management & Remediation (electronic copy)

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: Former Shell Service Station
4255 MacArthur Boulevard
Oakland, California
SAP Code 135701
Incident No. 98995758
ACEH Case No. RO0000486

Dear Mr. Wickham:

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

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

Sincerely,

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

Denis L. Brown
Senior Program Manager



GROUNDWATER MONITORING AND REMEDICATION REPORT - THIRD QUARTER 2012

**FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA**

**SAP CODE 135701
INCIDENT NO. 98995758
AGENCY NO. RO0000486**

**NOVEMBER 12, 2012
REF. NO. 240524 (22)**

This report is printed on recycled paper.

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

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

1.1 SITE INFORMATION

Site Address	4255 MacArthur Boulevard, Oakland
Site Use	Vacant
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000486
Shell SAP Code	135701
Shell Incident No.	98995758

Date of most recent agency correspondence was October 31, 2012 (electronic).

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site. Blaine coordinated groundwater sampling with the adjacent 76 Station No. 1156 located at 4276 MacArthur Boulevard, Oakland.

CRA prepared a vicinity map (Figure 1), a groundwater contour and chemical concentration map (Figure 2) including data from both sites, and a groundwater data table (Table 1). Blaine's field notes are presented in Appendix A, and the laboratory report is presented in Appendix B. The data tables for the 76 Station are included in Appendix C.

On April 23, 2012 and July 24, 2012, Blaine replaced the separate-phase hydrocarbon (SPH)-absorbent socks in wells MW-2, MW-3, and MW-4. No SPHs were measured in other site wells during the April 23, 2012 monitoring event. Approximately 0.01 feet of SPHs were measured in well MW-3 during the July 24, 2012 monitoring event.

Approximately 3.24 pounds of SPHs were recovered from the absorbent socks during the second and third quarters of 2012. A summary of historical SPH removal is provided below.

SPH REMOVAL SUMMARY	
<i>This Period (pounds)</i>	<i>Cumulative Removal (pounds)</i>
3.24	35.19

CRA submitted a *Subsurface Investigation Report* on May 4, 2012 detailing the results of a soil vapor investigation conducted at 4240 Redding Street, Oakland, which recommended no additional investigation on the property.

CRA submitted a soil vapor investigation work plan for the adjacent mobile home and church properties on May 25, 2012, which was approved in Alameda County Environmental Health's (ACEH's) July 31, 2012 letter.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Westerly to southwesterly
Hydraulic Gradient	Averages 0.05
Depth to Water	4.85 to 13.84 feet below top of well casing

2.3 PROPOSED ACTIVITIES

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

Blaine will continue to remove SPHs from wells MW-2, MW-3 and MW-4 using SPH-absorbent socks. The socks will be replaced quarterly until no SPHs are observed or recovered for four consecutive quarters.

On October 17, 2012, CRA submitted a work plan addendum letter proposing additional on-site soil vapor probes in the southern portion of the former station property. ACEH's October 24, 2012 electronic correspondence accepted the proposal. Based on ACEH's

October 31, 2012 electronic correspondence, we will submit a soil vapor probe installation and sampling report by January 14, 2013.

CRA's January 9, 2012 *Soil Vapor Sampling Report* proposed making an additional attempt to sample probes SVP-1 (3 and 5 feet below grade [fbg]), SVP-2 (5 fbg), and SVP-6 (3 and 5 fbg) following an extended period of dry weather. We have tentatively scheduled to attempt to sample the probes on November 14, 2012.

2.4 DISCUSSION

Shell and ConocoPhillips Company have filed a comingled plume claim with the California Underground Storage Tank Cleanup Fund for the 4276 MacArthur Boulevard and 4255 MacArthur Boulevard, Oakland sites.

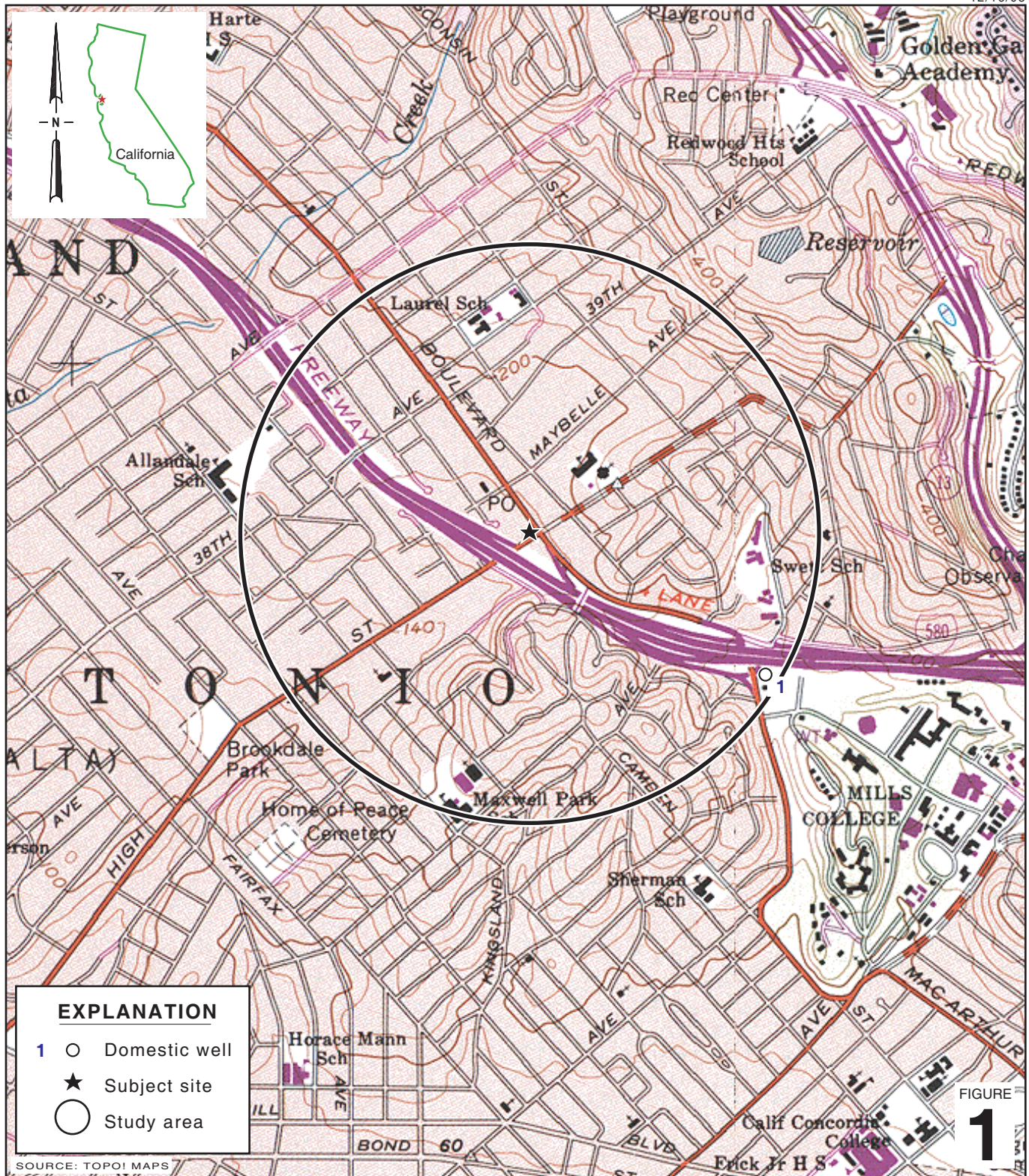
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer
Peter Schaefer, CEG, CHG

Aubrey K Cool
Aubrey K. Cool, PG



FIGURES



I:\Shell\6-chars\2405--\240524-Oakland 4255 MacArthur\240524-FIGURES\240524 VICINITY.A1

Former Shell Service Station
 4255 MacArthur Boulevard
 Oakland, California



**CONESTOGA-ROVERS
 & ASSOCIATES**

Vicinity Map



EXPLANATION

- MW-1 ● Monitoring well location (Shell)
- MW-1B ◆ Monitoring well location (ConocoPhillips)
- SVP-1 ○ Soil vapor probe location (Shell)
- SVP-9 ■ Temporary soil vapor probe location
- TB-1 ⊗ Destroyed well location
- SB-9 ⊙ Soil boring location (Shell)

- STM --- Storm drain line (STM)
- SAN --- Sanitary sewer line (SAN)
- W --- Water line (W)

- Average groundwater flow direction and gradient
- xx.xx Groundwater elevation contour, in feet above mean sea level (ft MSL)

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

- Notes:**
 ND = Not detected
 NDa = Elevated reporting limit, see laboratory report for details

I:\Shell\6-chars\2405--1240524-Oakland 4255 MacArthur\240524-REPORTS\240524-RPT22-3Q\1240524 3QM12-GW.DWG

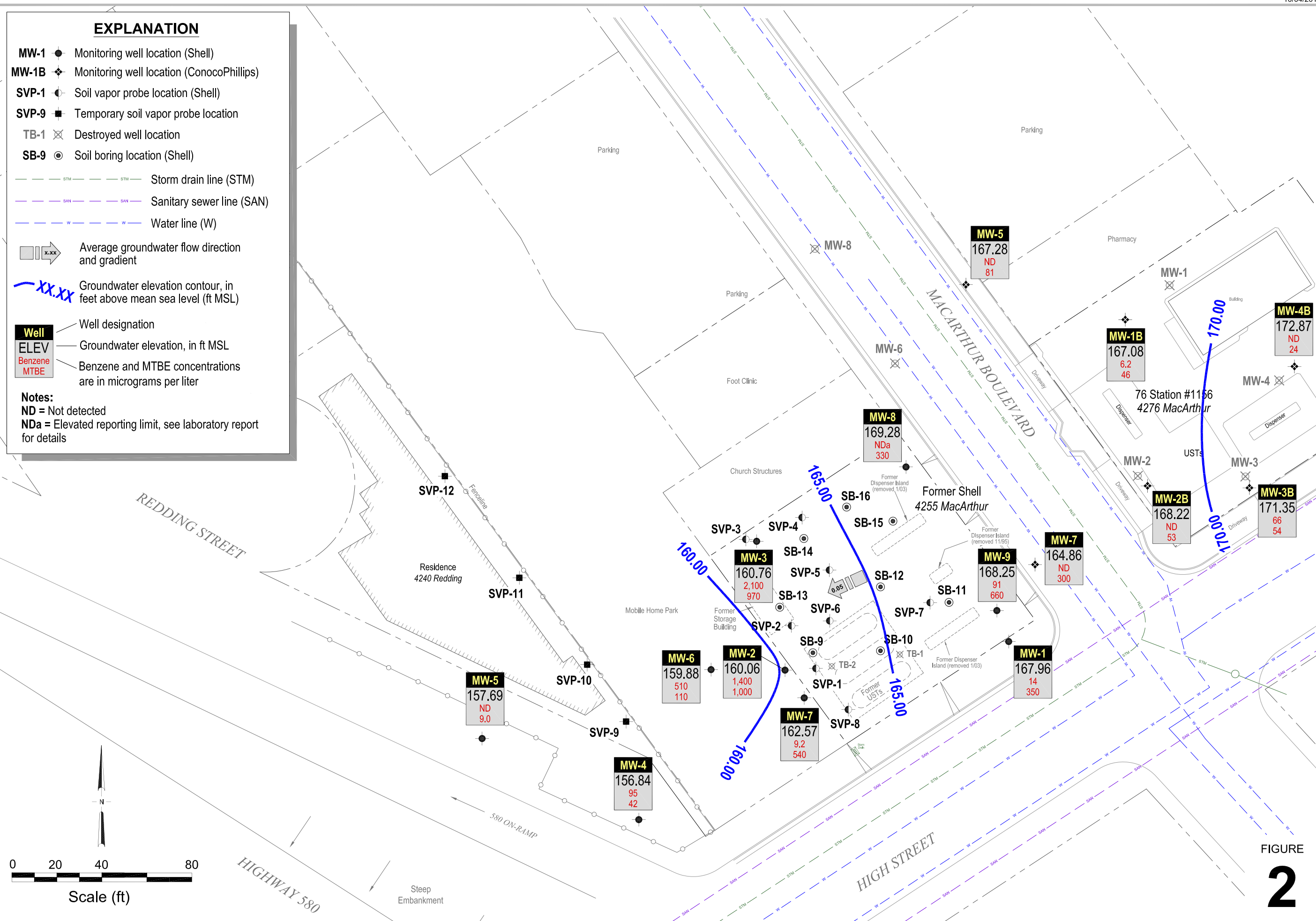
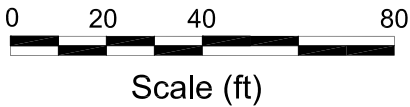


FIGURE
2



TABLE

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-1	11/17/1993	410	21	11	7.9	47	—	—	—	—	—	—	—	—	—	175.79	8.59	167.20	—	—	—
MW-1	01/20/1994	1,200	180	19	48	47	—	—	—	—	—	—	—	—	—	175.79	8.22	167.57	—	—	—
MW-1	04/25/1994	3,100	610	<10	130	27	—	—	—	—	—	—	—	—	—	175.79	7.63	168.16	—	—	—
MW-1	07/07/1994	2,400	1,000	10	250	20	—	—	—	—	—	—	—	—	—	175.79	8.31	167.48	—	—	—
MW-1	10/27/1994	2,200	500	3.1	72	1.8	—	—	—	—	—	—	—	—	—	175.79	8.84	166.95	—	—	—
MW-1	11/17/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	175.79	7.60	168.19	—	—	—
MW-1	11/28/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	175.79	7.56	168.23	—	—	—
MW-1	01/13/1995	570	75	2.5	6.7	11	—	—	—	—	—	—	—	—	—	175.79	7.11	168.68	—	—	—
MW-1	04/12/1995	1,800	480	<5.0	79	<5.0	—	—	—	—	—	—	—	—	—	175.79	7.08	168.71	—	—	—
MW-1	07/25/1995	120	15	1.1	2.1	2.9	—	—	—	—	—	—	—	—	—	175.79	7.73	168.06	—	—	—
MW-1 (D)	07/25/1995	300	88	2.4	11	6.5	—	—	—	—	—	—	—	—	—	175.79	7.73	168.06	—	—	—
MW-1	10/18/1995	130	9.5	0.8	1.3	1.7	—	—	—	—	—	—	—	—	—	175.79	8.42	167.37	—	—	—
MW-1 (D)	10/18/1995	120	11	0.8	1.4	1.8	—	—	—	—	—	—	—	—	—	175.79	8.42	167.37	—	—	—
MW-1	01/17/1996	250	22	0.9	1.6	2.3	—	—	—	—	—	—	—	—	—	175.79	7.83	167.96	—	—	—
MW-1	04/25/1996	<50	4.6	<0.5	<0.5	0.6	500b	—	—	—	—	—	—	—	—	175.79	7.35	168.44	—	—	—
MW-1	07/17/1996	<250	15	<2.5	<2.5	<2.5	540	—	—	—	—	—	—	—	—	175.79	7.70	168.09	—	—	—
MW-1	10/01/1996	1,200	500	12	57	82	1,900	—	—	—	—	—	—	—	—	175.79	8.07	167.72	—	—	—
MW-1	01/22/1997	640	170	4.3	33	33	1,200	—	—	—	—	—	—	—	—	175.79	7.21	168.58	—	—	—
MW-1	04/08/1997	<200	34	<2.0	3.3	4.3	950	—	—	—	—	—	—	—	—	175.79	7.75	168.04	—	—	—
MW-1 (D)	04/08/1997	<200	66	<2.0	6.4	8	740	—	—	—	—	—	—	—	—	175.79	7.75	168.04	—	—	—
MW-1	07/08/1997	190	49	1.2	5.8	8.6	560	—	—	—	—	—	—	—	—	175.79	8.01	167.78	—	—	—
MW-1	10/08/1997	<100	7	<1.0	<1.0	<1.0	620	—	—	—	—	—	—	—	—	175.79	8.10	167.69	—	—	—
MW-1	01/09/1998	970	390	12	48	71	1,200	—	—	—	—	—	—	—	—	175.79	7.14	168.65	—	—	—
MW-1	04/13/1998	<50	136	<0.50	1.5	1.8	170	—	—	—	—	—	—	—	—	175.79	6.78	169.01	—	—	—
MW-1	07/17/1998	2,500	750	11	88	67	150	—	—	—	—	—	—	—	—	175.79	7.28	168.51	—	—	—
MW-1	10/02/1998	8,000	970	36	270	440	35	—	—	—	—	—	—	—	—	175.79	7.77	168.02	—	—	—
MW-1	02/03/1999	210	56	0.82	<0.50	3.2	220	—	—	—	—	—	—	—	—	175.79	7.45	168.34	—	1.4	—
MW-1	04/29/1999	<50	4.5	<0.50	0.56	<0.50	140	196	—	—	—	—	—	—	—	175.79	7.58	168.21	—	1.2	140
MW-1	07/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	120	111 f	—	—	—	—	—	—	—	175.79	8.51	167.28	—	1.0	—
MW-1	11/01/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2.90	—	—	—	—	—	—	—	—	175.79	8.30	167.49	—	1.4	-71
MW-1	01/17/2000	<50	<0.50	<0.50	<0.50	<0.50	3.30	—	—	—	—	—	—	—	—	175.79	8.04	167.75	—	16.9	64
MW-1	04/17/2000	<50.0	1.08	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	—	175.79	8.00	167.79	—	1.8	112
MW-1	07/26/2000	125	54.3	2.16	5.45	9.86	33.1	—	—	—	—	—	—	—	—	175.79	7.52	168.27	—	13.2	-140
MW-1	10/12/2000	101	40.7	2.68	3.00	5.18	25.0	—	—	—	—	—	—	—	—	175.79	7.71	168.08	—	>20	534
MW-1	01/15/2001	<50.0	0.633	<0.500	0.505	1.74	<2.50	—	—	—	—	—	—	—	—	175.79	7.33	168.46	—	16.9	-127
MW-1	04/09/2001	<50.0	<0.500	<0.500	<0.500	0.927	<2.50	—	—	—	—	—	—	—	—	175.79	7.68	168.11	—	12.8	-117
MW-1	07/24/2001	<50	4.0	0.65	0.53	1.3	—	<5.0	—	—	—	—	—	—	—	175.79	8.00	167.79	—	>20	43
MW-1	10/31/2001	<50	4.4	<0.50	<0.50	0.98	—	<5.0	—	—	—	—	—	—	—	175.79	7.94	167.85	—	13.6	123

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-1	01/10/2002	<50	2.2	<0.50	<0.50	1.2	—	6.1	—	—	—	—	—	—	—	175.79	7.63	168.16	—	0.1	63
MW-1	04/25/2002	<50	2.0	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	—	175.79	7.76	168.03	—	0.3	54
MW-1	07/18/2002	<50	6.1	<0.50	<0.50	0.98	—	<5.0	—	—	—	—	—	—	—	175.79	8.29	167.50	—	1.1	32
MW-1	10/07/2002	500	17	14	11	60	—	9.0	—	—	—	—	—	—	—	175.76	8.34	167.42	—	2.8	-26
MW-1	01/06/2003	<50	12	<0.50	0.73	0.58	—	14	—	—	—	—	—	—	—	175.76	7.18	168.58	—	0.5	-22
MW-1	04/07/2003	<50	<0.50	<0.50	<0.50	<1.0	—	12	<5.0	—	—	—	—	—	—	175.76	7.75	168.01	—	0.7	-24
MW-1	07/07/2003	<50	6.6	<0.50	<0.50	<1.0	—	8.1	<5.0	—	—	—	—	—	—	175.76	7.75	168.01	—	0.5	16
MW-1	10/09/2003	<50	1.9	<0.50	<0.50	<1.0	—	22	<5.0	—	—	—	—	—	—	175.76	8.45	167.31	—	0.7	80
MW-1	01/14/2004	<100	19	<1.0	<1.0	<2.0	—	180	63	—	—	—	—	—	—	175.76	7.45	168.31	—	0.8	242
MW-1	04/28/2004	<50	2.1	<0.50	<0.50	<1.0	—	110	33	—	—	—	—	—	—	175.76	8.25	167.51	—	0.5	64
MW-1	07/12/2004	<50	2.5	<0.50	<0.50	<1.0	—	120	26	<2.0	<2.0	<2.0	—	—	<50	175.76	6.20	169.56	—	0.5	72
MW-1	10/25/2004	<500	<5.0	<5.0	<5.0	<10	—	550	240	—	—	—	—	—	—	175.76	7.98	167.78	—	3.15	-72
MW-1	01/17/2005	<250	8.0	<2.5	<2.5	<5.0	—	500	310	—	—	—	—	—	—	175.76	7.42	168.34	—	0.2	9
MW-1	04/06/2005	<250	<2.5	<2.5	<2.5	<5.0	—	230	330*	—	—	—	—	—	—	175.76	8.15	167.61	—	2.49	143
MW-1	07/08/2005	<50	<0.50	<0.50	<0.50	<0.50	—	380	510	<0.50	<0.50	<0.50	—	—	<5.0	175.76	7.45	168.31	—	1.1	12
MW-1	10/07/2005	<500 c	<5.0	<5.0	<5.0	<10	—	1,600	1,600	—	—	—	—	—	—	175.76	7.72	168.04	—	—	—
MW-1	01/27/2006	1,720	6.92	<0.500	<0.500	<0.500	—	1,270	1,380	—	—	—	—	—	—	175.76	6.68	169.08	—	—	—
MW-1	04/28/2006	2,420	6.90	1.19	<0.500	0.980	—	2,080	1,870	—	—	—	—	—	—	175.76	6.67	169.09	—	—	—
MW-1	07/28/2006	3,230	2.06	<0.500	<0.500	<0.500	—	1,770	1,730	<0.500	<0.500	1.14	—	—	<50.0	175.76	7.65	168.11	—	—	—
MW-1	10/27/2006	1,020	3.22	<0.500	1.72	<0.500	—	690	884	—	—	—	—	—	—	175.76	7.90	167.86	—	—	—
MW-1	01/10/2007	1,100	3.0	<0.50	<0.50	<1.0	—	2,300	2,900	—	—	—	—	—	—	175.76	7.62	168.14	—	—	—
MW-1	04/13/2007	620 g,h	7.1	0.24 i	<1.0	<1.0	—	2,800	3,600	—	—	—	—	—	—	175.76	6.98	168.78	—	—	—
MW-1	07/09/2007	960 g,h	4.3 i	<20	<20	<20	—	1,900	2,100	<40	<40	<40	—	—	<2,000	175.76	7.60	168.16	—	—	—
MW-1	10/08/2007	590 g,h	5.9 i	<20	<20	<20	—	3,200	2,200	—	—	—	—	—	—	175.76	8.05	167.71	—	—	—
MW-1	01/09/2008	470 g,h	36	<10	<10	<10	—	660	1,300	—	—	—	—	—	—	175.76	6.99	168.77	—	—	—
MW-1	04/04/2008	2,200	<10	<20	<20	<20	—	2,000	1,500	—	—	—	—	—	—	175.76	6.94	168.82	—	—	—
MW-1	07/03/2008	1,800	<10	<20	<20	<20	—	1,800	3,400	<40	<40	<40	—	—	<2,000	175.76	8.03	167.73	—	—	—
MW-1	10/03/2008	2,000	<10	<20	<20	<20	—	2,000	2,800	—	—	—	—	—	—	175.76	8.58	167.18	—	—	—
MW-1	01/22/2009	2,400	14	<20	<20	<20	—	1,600	3,200	—	—	—	—	—	—	175.76	8.15	167.61	—	—	—
MW-1	04/13/2009	1,800	<10	<20	<20	<20	—	970	1,900	—	—	—	—	—	—	175.76	2.13	173.63	—	—	—
MW-1	07/23/2009	1,800	6.9	<10	<10	<10	—	1,500	2,800	<20	<20	<20	—	—	<1000	175.76	8.15	167.61	—	—	—
MW-1	02/01/2010	910	94	<5.0	<5.0	<5.0	—	620	1,800	—	—	—	—	—	—	175.76	7.44	168.32	—	—	—
MW-1	08/02/2010	1,600	8.4	<5.0	<5.0	<5.0	—	2,100	2,100	—	—	—	—	—	—	175.76	7.49	168.27	—	—	—
MW-1	01/31/2011	1,100 j	41	<10	<10	<10	—	2,000	2,600	—	—	—	<10	<10	—	175.76	7.45	168.31	—	—	—
MW-1	07/25/2011	520 j	31	<2.5	<2.5	<5.0	—	530	1,600	<5.0	<5.0	<5.0	—	—	<750	175.76	7.39	168.37	—	—	—
MW-1	01/23/2012	<1,000	49	<10	<10	<20	—	1,200	1,200	—	—	—	—	—	—	175.76	7.85	167.91	—	—	—
MW-1	07/24/2012	390	14	<2.5	<2.5	<5.0	—	350	1,100	<2.5	<2.5	<2.5	—	—	—	175.76	7.80	167.96	—	—	—

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-2	11/17/1993	31,000	9,400	4,600	1,000	3,900	--	--	--	--	--	--	--	--	--	170.91	12.31	158.60	--	--	--
MW-2	01/20/1994	40,000	6,900	5,600	780	4,100	--	--	--	--	--	--	--	--	--	170.91	11.48	159.43	--	--	--
MW-2 (D)	01/20/1994	41,000	7,200	6,200	900	4,800	--	--	--	--	--	--	--	--	--	170.91	11.48	159.43	--	--	--
MW-2	04/25/1994	60,000	9,300	6,100	1,400	6,200	--	--	--	--	--	--	--	--	--	170.91	10.84	160.07	--	--	--
MW-2	07/07/1994	280,000 a	40,000	26,000	8,100	32,000	--	--	--	--	--	--	--	--	--	170.91	11.89	159.02	--	--	--
MW-2 (D)	07/07/1994	53,000	13,000	6,600	2,000	8,400	--	--	--	--	--	--	--	--	--	170.91	11.89	159.02	--	--	--
MW-2	10/27/1994	130,000	14,000	12,000	2,400	13,000	--	--	--	--	--	--	--	--	--	170.91	12.89	158.02	--	--	--
MW-2 (D)	10/27/1994	390,000	8,800	7,000	1,700	11,000	--	--	--	--	--	--	--	--	--	170.91	12.89	158.02	--	--	--
MW-2	11/17/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	9.11	161.80	--	--	--
MW-2	11/28/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	9.22	161.69	--	--	--
MW-2	01/13/1995	75,000	5,900	12,000	3,100	17,000	--	--	--	--	--	--	--	--	--	170.91	8.10	162.81	--	--	--
MW-2	04/12/1995	100,000	8,500	11,000	2,400	12,000	--	--	--	--	--	--	--	--	--	170.91	10.12	160.79	--	--	--
MW-2 (D)	04/12/1995	80,000	4,200	9,300	2,500	12,000	--	--	--	--	--	--	--	--	--	170.91	10.12	160.79	--	--	--
MW-2	07/25/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	11.53	159.80	0.52	--	--
MW-2	10/18/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	14.02	156.99	0.13	--	--
MW-2	01/17/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	10.27	160.78	0.17	--	--
MW-2	04/25/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	11.68	159.25	0.03	--	--
MW-2	07/17/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	12.78	158.51	0.48	--	--
MW-2	10/01/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	14.21	156.92	0.28	--	--
MW-2	01/22/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	10.92	160.08	0.11	--	--
MW-2	04/08/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	14.12	156.95	0.20	--	--
MW-2	07/08/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	14.98	156.08	0.19	--	--
MW-2	10/08/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	12.97	157.98	0.05	--	--
MW-2	01/08/1998	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	12.54	158.43	0.08	--	--
MW-2	04/13/1998	180,000	2,800	5,200	2,400	13,000	71,000	--	--	--	--	--	--	--	--	170.91	10.05	160.86	--	--	--
MW-2	07/17/1998	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	11.75	159.24	0.10	--	--
MW-2	10/02/1998	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	16.78	154.22	0.11	--	--
MW-2	02/03/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	9.90	161.07	0.08	--	--
MW-2	04/29/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	9.86	161.09	0.05	--	--
MW-2	07/23/1999	65,800	6,500	4,480	1,960	8,960	46,600	58,500 f	--	--	--	--	--	--	--	170.91	14.45	156.46	--	1.4	--
MW-2	11/01/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	11.84	159.09	0.03	--	--
MW-2	01/17/2000	46,000	6,000	2,400	1,500	5,500	50,000	31,000	--	--	--	--	--	--	--	170.91	11.00	159.91	--	1.3	-54
MW-2	04/17/2000	96,300	8,150	10,200	2,820	14,900	112,000	108,000	--	--	--	--	--	--	--	170.91	11.06	159.85	--	2.6	125
MW-2	07/26/2000	72,400	8,680	5,620	2,810	13,400	66,200	46,300	--	--	--	--	--	--	--	170.91	12.82	158.09	--	2.2	113
MW-2	10/12/2000	63,200	5,840	4,180	2,310	11,100	61,200	66,600	--	--	--	--	--	--	--	170.91	11.32	159.59	--	0.4	55
MW-2	01/15/2001	59,700	2,630	4,800	2,050	11,500	44,400	5,080	--	--	--	--	--	--	--	170.91	10.19	160.72	--	1.1	-22
MW-2	04/09/2001	56,900	1,860	2,550	1,810	9,720	40,000	46,600	--	--	--	--	--	--	--	170.91	11.15	159.76	--	1.0	-55
MW-2	07/24/2001	84,000	3,000	4,600	2,500	13,000	--	41,000	--	--	--	--	--	--	--	170.91	11.67	159.24	--	0.2	53

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-2	10/31/2001	45,000	2,200	3,000	1,500	7,700	—	29,000	51,000	<50	<50	<50	—	—	<500	170.91	11.04	159.87	—	1.2	-17
MW-2	01/10/2002	28,000	840	740	760	3,300	—	32,000	—	—	—	—	—	—	—	170.91	9.58	161.33	—	2.1	-76
MW-2	04/25/2002	41,000	1,900	2,000	1,200	6,900	—	17,000	—	—	—	—	—	—	—	170.91	11.40	159.51	—	0.8	-95
MW-2	07/18/2002	87,000	2,000	2,200	1,400	10,000	—	19,000	—	—	—	—	—	—	—	170.91	12.68	158.23	—	0.7	-34
MW-2	10/07/2002	110,000	3,900	6,700	2,700	15,000	—	20,000	—	—	—	—	—	—	—	170.88	11.58	159.30	—	1.4	-52
MW-2	01/06/2003	65,000	2,400	3,500	1,400	8,600	—	26,000	—	—	—	—	—	—	—	170.88	9.09	161.79	—	0.4	40
MW-2	04/07/2003	57,000	1,900	2,500	1,700	8,600	—	37,000	34,000	—	—	—	—	—	—	170.88	11.08	159.80	—	1.0	60
MW-2	07/07/2003	34,000	4,000	4,200	1,600	8,500	—	51,000	44,000	—	—	—	—	—	—	170.88	11.27	159.61	—	1.3	-17
MW-2	10/09/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	11.64	159.26	0.03	—	—
MW-2	10/20/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	11.88	159.03	0.04	—	—
MW-2	01/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	10.96	159.93	0.01	—	—
MW-2	04/28/2004	35,000	2,200	2,200	2,300	8,200	—	26,000	28,000	—	—	—	—	—	—	170.88	11.05	159.83	—	0.1	-96
MW-2	07/12/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	12.12	158.78	0.03	—	—
MW-2	10/25/2004	60,000	2,900	2,300	2,300	7,600	—	27,000	26,000	—	—	—	—	—	—	170.88	11.23	159.65	—	1.62	-69
MW-2	01/17/2005	62,000	1,900	1,800	1,800	5,700	—	22,000	21,000	—	—	—	—	—	—	170.88	8.78	162.10	—	0.8	-102
MW-2	04/06/2005	40,000	1,500	940	1,600	2,900	—	23,000	23,000	—	—	—	—	—	—	170.88	9.23	161.65	—	0.60	-104
MW-2	07/08/2005	50,000	2,300	1,500	1,700	6,600	—	24,000	25,000	<150	<150	<150	—	—	<1,500	170.88	10.99	159.91	0.02	0.01	-41
MW-2	10/07/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	12.15	158.75	0.02	—	—
MW-2	01/27/2006	56,800	1,270	1,280	1,520	5,370	—	8,210	10,600	—	—	—	—	—	—	170.88	9.55	161.33	—	—	—
MW-2	03/16/2006	82,100	1,230	1,310	1,350	4,630	—	9,020	9,690	—	—	—	—	—	—	170.88	8.10	162.78	—	—	—
MW-2	04/28/2006	81,400	1,200	1,610	1,660	5,580	—	10,800	11,100	—	—	—	—	—	—	170.88	9.25	161.63	—	—	—
MW-2	05/15/2006	119,000	2,210	3,800	2,330	8,900	—	15,600	12,200	—	—	—	—	—	—	170.88	10.28	160.60	—	—	—
MW-2	06/19/2006	121,000	1,680	3,830	2,990	12,400	—	10,700	9,310	—	—	—	—	—	—	170.88	10.90	159.98	—	—	—
MW-2	07/28/2006	172,000	3,590	3,450	2,840	8,210	—	22,800	11,300	<0.500	<0.500	<0.500	—	—	<50.0	170.88	11.84	159.04	—	—	—
MW-2	08/31/2006	91,200	1,590	3,710	2,570	11,700	—	3,520	3,940	—	—	—	—	—	—	170.88	18.03	152.85	—	—	—
MW-2	09/26/2006	50,000	2,300	1,300	1,600	6,700	—	17,000	19,000	—	—	—	—	—	—	170.88	10.23	160.65	—	—	—
MW-2	10/27/2006	159,000	5,200	3,890	2,600	12,500	—	18,100	9,230 d	—	—	—	—	—	—	170.88	12.11	158.77	—	—	—
MW-2	11/22/2006	53,000	1,500	960	1,800	7,100	—	9,600	12,000	—	—	—	—	—	—	170.88	11.35	159.53	—	—	—
MW-2	12/26/2006	Well inaccessible			—	—	—	—	—	—	—	—	—	—	—	170.88	—	—	—	—	—
MW-2	01/10/2007	45,000	2,700	1,700	1,400	5,800	—	13,000	11,000	—	—	—	—	—	—	170.88	10.21	160.67	—	—	—
MW-2	02/19/2007	13,000	1,800	1,900	1,500	5,900	—	7,400	11,000	—	—	—	—	—	—	170.88	9.22	161.66	—	—	—
MW-2	03/16/2007	52,000	2,600	2,300	2,000	7,300	—	9,100	12,000	—	—	—	—	—	—	170.88	9.88	161.00	—	—	—
MW-2	04/13/2007	60,000 g	2,200	2,100	2,300	7,900	—	13,000	20,000	—	—	—	—	—	—	170.88	10.61	160.29	0.02	—	—
MW-2	07/09/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	11.77	159.20	0.11	—	—
MW-2	10/08/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	12.70	158.33	0.19	—	—
MW-2	11/19/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	8.00	162.88	—	—	—
MW-2	12/10/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	6.49	164.39	—	—	—
MW-2	01/09/2008	Unable to access			—	—	—	—	—	—	—	—	—	—	—	170.88	—	—	—	—	—

TABLE 1

**GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-2	01/22/2008	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	—	—	—	—	—
MW-2	02/21/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	8.86	162.02	—	—	—
MW-2	03/20/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	10.24	160.66	0.02	—	—
MW-2	04/04/2008	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	—	—	—	—	—
MW-2	05/27/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	12.44	158.46	0.03	—	—
MW-2	06/11/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	11.10	159.85	0.09	—	—
MW-2	06/11/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	11.10	159.85	0.09	—	—
MW-2	07/03/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	11.62	159.37	0.14	—	—
MW-2	08/04/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	11.88	159.05	0.06	—	—
MW-2	09/17/1998	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	—	—	—	—	—
MW-2	10/03/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	12.66	158.43	0.26	—	—
MW-2	11/26/2008	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	—	—	—	—	—
MW-2	12/30/2008	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	—	—	—	—	—
MW-2	01/22/2009	86,000	3,800	1,600	2,500	9,800	—	10,000	7,900	—	—	—	—	—	—	170.88	10.74	160.14	—	—	—
MW-2	02/27/2009	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	—	—	—	—	—
MW-2	04/13/2009	60,000	1,700	980	2,000	7,000	—	4,300	4,600	—	—	—	—	—	—	170.88	10.36	160.53	0.01	—	—
MW-2	07/23/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	11.91	159.13	0.20	—	—
MW-2	11/10/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	10.87	160.04	0.04	—	—
MW-2	02/01/2010	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	—	—	—	—	—
MW-2	02/09/2010	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	—	—	—	—	—
MW-2	08/02/2010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	11.38	159.53	0.04	—	—
MW-2	01/31/2011	77,000	1,700	1,500	2,600	9,000	—	2,100	2,700	—	—	—	<25	<25	—	170.88	9.09	161.79	—	—	—
MW-2	04/26/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	9.98	160.90	0.00	—	—
MW-2	07/25/2011	46,000	990	560	2,500	5,100	—	1,600	1,900	<50	<50	<50	—	—	<7,500	170.88	10.76	160.12	0.00	—	—
MW-2	10/13/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	10.18	160.70	0.00	—	—
MW-2	01/23/2012	48,000	1,400	1,100	2,200	6,100	—	820	1,200	—	—	—	—	—	—	170.88	9.22	161.66	0.00	—	—
MW-2	04/23/2012	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.88	9.20	161.68	0.00	—	—
MW-2	07/24/2012	63,000	1,400	970	2,600	7,100	—	1,000	980	<20	<20	<20	—	—	—	170.88	10.82	160.06	0.00	—	—
MW-3	11/17/1993	18,000	5,400	660	720	2,200	—	—	—	—	—	—	—	—	—	174.61	15.40	159.21	—	—	—
MW-3	01/20/1994	55,000	13,000	2,600	2,200	6,500	—	—	—	—	—	—	—	—	—	174.61	14.61	160.00	—	—	—
MW-3	04/25/1994	96,000	11,000	1,600	3,100	9,900	—	—	—	—	—	—	—	—	—	174.61	13.12	161.49	—	—	—
MW-3 (D)	04/25/1994	78,000	12,000	1,900	2,600	7,300	—	—	—	—	—	—	—	—	—	174.61	13.12	161.49	—	—	—
MW-3	07/07/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	174.61	14.54	160.09	0.02	—	—
MW-3	10/27/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	174.61	15.62	159.03	0.05	—	—
MW-3	11/17/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	174.61	13.83	160.78	—	—	—
MW-3	11/28/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	174.61	14.02	160.59	—	—	—
MW-3	01/13/1995	180,000	3,200	2,700	1,700	5,200	—	—	—	—	—	—	—	—	—	174.61	12.13	162.48	—	—	—

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-3 (D)	01/13/1995	23,000	4,000	690	960	3,000	--	--	--	--	--	--	--	--	--	174.61	12.13	162.48	--	--	--
MW-3	04/12/1995	56,000	8,700	1,500	2,100	6,300	--	--	--	--	--	--	--	--	--	174.61	12.96	161.65	--	--	--
MW-3	07/25/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.61	14.28	160.38	0.06	--	--
MW-3	10/18/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.61	15.88	158.77	0.05	--	--
MW-3	01/17/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.61	13.86	160.94	0.24	--	--
MW-3	04/25/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.61	13.82	160.81	0.02	--	--
MW-3	07/17/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.61	16.11	158.52	0.03	--	--
MW-3	10/01/1996	46,000	7,300	530	1,700	3,900	3,200	--	--	--	--	--	--	--	--	174.61	16.56	158.05	--	--	--
MW-3 (D)	10/01/1996	47,000	7,100	530	1,700	4,000	2,900	--	--	--	--	--	--	--	--	174.61	16.56	158.05	--	--	--
MW-3	01/22/1997	82,000	5,200	1,300	2,800	8,900	1,100	--	--	--	--	--	--	--	--	174.61	13.07	161.54	--	--	--
MW-3 (D)	01/22/1997	61,000	8,400	1,100	2,300	7,000	2,700	--	--	--	--	--	--	--	--	174.61	13.07	161.54	--	--	--
MW-3	04/08/1997	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.61	17.09	157.54	0.03	--	--
MW-3	07/08/1997	56,000	8,800	580	2,000	4,900	2,800	--	--	--	--	--	--	--	--	174.61	15.85	158.76	--	--	--
MW-3	10/08/1997	48,000	8,000	590	1,700	3,400	5,100	--	--	--	--	--	--	--	--	174.61	16.22	158.39	--	--	--
MW-3	01/08/1998	47,000	9,400	810	2,300	4,700	6,300	--	--	--	--	--	--	--	--	174.61	13.80	160.81	--	--	--
MW-3 (D)	01/08/1998	48,000	8,100	750	2,000	4,100	5,800	--	--	--	--	--	--	--	--	174.61	13.80	160.81	--	--	--
MW-3	04/13/1998	32,000	6,800	540	1,400	3,400	4,000	--	--	--	--	--	--	--	--	174.61	12.97	161.64	--	--	--
MW-3 (D)	04/13/1998	36,000	7,300	660	1,600	3,700	4,000	--	--	--	--	--	--	--	--	174.61	12.97	161.64	--	--	--
MW-3	07/17/1998	71,000	11,000	590	2,200	6,900	3,900	--	--	--	--	--	--	--	--	174.61	11.51	163.10	--	--	--
MW-3 (D)	07/17/1998	76,000	12,000	700	2,600	8,000	3,000	--	--	--	--	--	--	--	--	174.61	11.51	163.10	--	--	--
MW-3	10/02/1998	66,000	8,900	510	2,000	4,900	4,600	--	--	--	--	--	--	--	--	174.61	16.50	158.11	--	--	--
MW-3 (D)	10/02/1998	59,000	9,400	460	2,000	4,900	4,700	--	--	--	--	--	--	--	--	174.61	16.50	158.11	--	--	--
MW-3	02/03/1999	36,000	6,800	300	1,600	2,900	18,000	--	--	--	--	--	--	--	--	174.61	15.21	159.40	--	1.3	--
MW-3	04/29/1999	45,000	8,100	580	2,200	5,800	4,700	5,150	--	--	--	--	--	--	--	174.61	15.43	159.18	--	1.5	-68
MW-3	07/23/1999	29,400	3,540	215	810	3,800	4,720	6,950 f	--	--	--	--	--	--	--	174.61	14.95	159.66	--	1.3	--
MW-3	11/01/1999	20,000	4,190	294	1,060	1,740	5,540	8,590	--	--	--	--	--	--	--	174.61	14.66	159.95	--	0.6	-110
MW-3	01/17/2000	17,000	3,900	89	1,100	1,200	7,900	--	--	--	--	--	--	--	--	174.61	13.94	160.67	--	1.3	-40
MW-3	04/17/2000	28,100	5,240	247	1,540	2,750	16,600	--	--	--	--	--	--	--	--	174.61	14.00	160.61	--	1.1	-86
MW-3	07/26/2000	24,300	6,680	159	1,610	1,640	17,100	--	--	--	--	--	--	--	--	174.61	13.72	160.89	--	0.9	-70
MW-3	10/12/2000	14,300	2,630	86.7	241	1,360	16,300	--	--	--	--	--	--	--	--	174.61	14.15	160.46	--	0.9	50
MW-3	01/15/2001	22,100	4,400	266	977	2,990	13,200	--	--	--	--	--	--	--	--	174.61	13.05	161.56	--	1.3	-40
MW-3	04/09/2001	33,800	7,100	147	1,700	2,660	13,000	--	--	--	--	--	--	--	--	174.61	13.59	161.02	--	0.6	-56
MW-3	07/24/2001	220,000	5,600	1,900	4,400	19,000	--	12,000	--	--	--	--	--	--	--	174.61	14.43	160.18	--	0.4	29
MW-3	10/31/2001	65,000	2,700	510	1,800	7,200	--	9,800	5,200	<20	<20	<20	--	--	<500	174.61	14.59	160.02	--	0.9	-27
MW-3	01/10/2002	66,000	2,400	490	1,700	6,600	--	5,500	--	--	--	--	--	--	--	174.61	12.65	161.96	--	1.7	-76
MW-3	04/25/2002	55,000	4,600	460	2,400	6,900	--	8,100	--	--	--	--	--	--	--	174.61	14.13	160.48	--	1.2	-96
MW-3	07/18/2002	56,000	3,300	270	1,700	5,000	--	8,400	--	--	--	--	--	--	--	174.61	15.48	159.15	0.03	0.8	-41
MW-3	10/07/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	14.60	160.15	0.20	--	--

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-3	01/06/2003	57,000	3,200	330	1,800	5,400	--	5,100	--	--	--	--	--	--	--	174.59	11.62	162.99	0.02	0.4	33
MW-3	04/07/2003	57,000	6,200	500	2,400	6,700	--	8,200	3,900	--	--	--	--	--	--	174.59	13.80	160.79	--	0.5	61
MW-3	07/07/2003	28,000	4,900	300	1,500	4,100	--	7,900	4,700	--	--	--	--	--	--	174.59	14.00	160.59	--	1.0	-11
MW-3	10/09/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	14.44	160.21	0.08	--	--
MW-3	10/20/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	14.68	159.97	0.07	--	--
MW-3	01/14/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	12.47	162.14	0.02	--	--
MW-3	04/28/2004	32,000	7,300	190	2,100	4,300	--	3,700	2,500	--	--	--	--	--	--	174.59	13.66	160.93	--	0.1	-16
MW-3	07/12/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	14.87	159.75	0.04	--	--
MW-3	10/25/2004	49,000	5,100	61	1,800	3,600	--	5,400	2,700	--	--	--	--	--	--	174.59	14.12	160.47	--	2.70	-59
MW-3	01/17/2005	57,000	8,000	190	2,000	4,000	--	4,600	3,300	--	--	--	--	--	--	174.59	10.59	164.00	--	0.2	-18
MW-3	04/06/2005	57,000	7,300	180	2,200	3,300	--	4,100	2,700	--	--	--	--	--	--	174.59	10.58	164.01	--	0.95	-77
MW-3	07/08/2005	28,000	2,900	47	1,100	2,000	--	2,800	1,900	<20	<20	<20	--	--	<200	174.59	13.46	161.13	--	0.1	-51
MW-3	10/07/2005	23,000	3,200	39	960	1,300	--	2,600	1,900	--	--	--	--	--	--	174.59	14.76	159.83	--	--	--
MW-3	01/27/2006	38,500	6,520	139	1,350	2,160	--	1,940	1,490	--	--	--	--	--	--	174.59	11.69	162.90	--	--	--
MW-3	03/16/2006	65,100	5,280	181	1,580	2,520	--	2,410	12,300	--	--	--	--	--	--	174.59	10.08	164.51	--	--	--
MW-3	04/28/2006	<1000	4,330	157	1,480	2,690	--	2,470	1,520	--	--	--	--	--	--	174.59	3.31	171.28	--	--	--
MW-3	05/15/2006	69,600	6,100	159	1,690	2,640	--	3,520	1,720	--	--	--	--	--	--	174.59	12.69	161.90	--	--	--
MW-3	06/19/2006	103,000	5,070	117	2,210	3,950	--	2,790	1,080	--	--	--	--	--	--	174.59	13.28	161.31	--	--	--
MW-3	07/28/2006	86,600	4,890	85.7	1,570	2,250	--	2,790	1,260	7.28	<0.500	<0.500	--	--	<50.0	174.59	14.72	159.87	--	--	--
MW-3	08/31/2006	45,700	4,600	204	1,740	2,680	--	2,580	1,520	--	--	--	--	--	--	174.59	14.75	159.84	--	--	--
MW-3	09/26/2006	29,000	3,900	76	1,500	2,100	--	2,700	1,500	--	--	--	--	--	--	174.59	14.97	159.62	--	--	--
MW-3	10/27/2006	41,000	3,690	65.2	1,210	1,650	--	1,760	867 d	--	--	--	--	--	--	174.59	15.00	159.59	--	--	--
MW-3	11/22/2006	30,000	3,300	51	810	1,500	--	1,900	1,300	--	--	--	--	--	--	174.59	14.26	160.33	--	--	--
MW-3	12/26/2006	31,000	2,500	56	1,100	1,500	--	2,200	2,000	--	--	--	--	--	--	174.59	12.52	162.07	--	--	--
MW-3	01/10/2007	18,000	2,600	43	750	940	--	2,100	2,100	--	--	--	--	--	--	174.59	12.81	161.78	--	--	--
MW-3	02/19/2007	27,000	3,800	110	1,200	1,500	--	2,400	3,200	--	--	--	--	--	--	174.59	11.65	162.94	--	--	--
MW-3	03/16/2007	25,000	4,000	80	1,300	1,500	--	2,100	2,400	--	--	--	--	--	--	174.59	12.20	162.39	--	--	--
MW-3	04/13/2007	30,000 g	4,400	73	1,500	1,920	--	2,800	3,900	--	--	--	--	--	--	174.59	13.37	161.22	--	--	--
MW-3	07/09/2007	25,000 g	3,800	57	1,400	1,456	--	1,900	1,500	<100	<100	<100	--	--	<5,000	174.59	14.30	160.29	--	--	--
MW-3	10/08/2007	20,000 g	3,200	35 i	1,300	1,124 i	--	1,700	1,500	--	--	--	--	--	--	174.59	15.19	159.41	0.01	--	--
MW-3	11/19/2007	Unable to access			--	--	--	--	--	--	--	--	--	--	--	174.59	--	--	--	--	--
MW-3	11/30/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	14.07	160.52	--	--	--
MW-3	12/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	13.78	160.81	--	--	--
MW-3	01/09/2008	33,000 g	2,800	34	910	782 i	--	1,000	1,100	--	--	--	--	--	--	174.59	11.09	163.50	--	--	--
MW-3	02/21/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	12.22	162.37	--	--	--
MW-3	03/20/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	13.03	161.56	--	--	--
MW-3	04/04/2008	24,000	3,300	55	1,100	844	--	1,900	1,200	--	--	--	--	--	--	174.59	13.41	161.18	--	--	--
MW-3	05/27/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	20.49	154.11	0.01	--	--

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-3	06/11/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	13.95	160.65	0.01	--	--
MW-3	07/03/2008	33,000	3,800	38	1,500	1,200	--	2,600	1,800	<50	<50	<50	--	--	<2,500	174.59	10.48	164.12	0.01	--	--
MW-3	09/17/1998	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	14.76	159.83	0.00	--	--
MW-3	09/17/1998	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	14.95	159.65	0.01	--	--
MW-3	10/03/2008	26,000	3,000	29	1,200	750	--	1,700	1,400	--	--	--	--	--	--	174.59	15.32	159.28	0.01	--	--
MW-3	11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	14.54	160.05	0.00	--	--
MW-3	12/30/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	13.04	161.55	--	--	--
MW-3	01/22/2009	27,000	2,300	29	880	610	--	1,600	1,700	--	--	--	--	--	--	174.59	13.73	160.86	--	--	--
MW-3	02/27/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	12.88	161.71	--	--	--
MW-3	04/13/2009	27,000	3,000	51	1,200	740	--	1,400	1,500	--	--	--	--	--	--	174.59	13.01	161.58	--	--	--
MW-3	07/23/2009	26,000	3,300	41	1,600	1,200	--	2,200	1,600	<50	<50	<50	--	--	<2,500	174.59	14.59	160.00	--	--	--
MW-3	11/10/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	13.66	160.93	--	--	--
MW-3	02/01/2010	34,000	3,200	44	1,300	1,700	--	1,000	1,100	--	--	--	--	--	--	174.59	10.65	163.94	--	--	--
MW-3	08/02/2010	16,000	1,500	12	440	460	--	910	1,200	--	--	--	--	--	--	174.59	14.09	160.50	--	--	--
MW-3	01/31/2011	21,000	2,200	32	980	980	--	1,300	1,700	--	--	--	<20	<20	--	174.59	11.89	162.70	--	--	--
MW-3	04/26/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	12.56	162.03	0.00	--	--
MW-3	07/25/2011	23,000	1,600	24	1,200	1,000	--	840	940	<25	<25	<25	--	--	<3,800	174.59	13.53	161.06	0.00	--	--
MW-3	10/13/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	13.02	161.57	0.00	--	--
MW-3	01/23/2012	25,000	1,500	16	640	610	--	730	660	--	--	--	--	--	--	174.59	12.30	162.29	0.00	--	--
MW-3	04/23/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174.59	11.43	163.16	0.00	--	--
MW-3	07/24/2012	22,000	2,100	33	870	550	--	970	1,100	<10	<10	<10	--	--	--	174.59	13.84	160.76	0.01	--	--
MW-4	11/17/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	164.06	6.62	157.44	--	--	--
MW-4	11/28/1994	2,900	200	17	76	260	--	--	--	--	--	--	--	--	--	164.06	6.11	157.95	--	--	--
MW-4	01/13/1995	1,900	130	5.6	13	40	--	--	--	--	--	--	--	--	--	164.06	6.05	158.01	--	--	--
MW-4	04/12/1995	680	150	<2.0	10	13	--	--	--	--	--	--	--	--	--	164.06	6.31	157.75	--	--	--
MW-4	07/25/1995	340	100	0.80	8.8	3.0	--	--	--	--	--	--	--	--	--	164.06	7.36	156.70	--	--	--
MW-4	10/18/1995	150	31	<0.50	3.5	0.80	--	--	--	--	--	--	--	--	--	164.06	8.54	155.52	--	--	--
MW-4	01/17/1996	290	14	<0.50	1.8	0.80	--	--	--	--	--	--	--	--	--	164.06	8.48	155.58	--	--	--
MW-4	04/25/1996	<500	65	<5.0	<5.0	<5.0	1,700	--	--	--	--	--	--	--	--	164.06	7.40	156.66	--	--	--
MW-4 (D)	04/25/1996	<500	66	<5.0	8.7	<5.0	1,500	--	--	--	--	--	--	--	--	164.06	7.40	156.66	--	--	--
MW-4	07/17/1996	<500	84	<5.0	6.5	<5.0	1,500	--	--	--	--	--	--	--	--	164.06	7.75	156.31	--	--	--
MW-4 (D)	07/17/1996	<500	54	<5.0	<5.0	<5.0	1,700	2,100	--	--	--	--	--	--	--	164.06	7.75	156.31	--	--	--
MW-4	10/01/1996	<500	1.9	<5.0	<5.0	<5.0	3,000	--	--	--	--	--	--	--	--	164.06	8.82	155.24	--	--	--
MW-4	01/22/1997	580	130	<2.5	18	5.2	1,200	--	--	--	--	--	--	--	--	164.06	7.51	156.55	--	--	--
MW-4	04/08/1997	770	200	7.0	26	55	1,500	8.0	--	--	--	--	--	--	--	164.06	7.18	156.88	--	--	--
MW-4	07/08/1997	570	78	<5.0	14	11	1,200	--	--	--	--	--	--	--	--	164.06	9.00	155.06	--	--	--
MW-4 (D)	07/08/1997	640	81	<5.0	16	19	1,600	--	--	--	--	--	--	--	--	164.06	9.00	155.06	--	--	--

TABLE 1

**GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-4	10/08/1997	<500	40	<5.0	7.4	5.4	1,400	--	--	--	--	--	--	--	--	164.06	8.97	155.09	--	--	--
MW-4 (D)	10/08/1997	<500	36	<5.0	5.9	<5.0	1,400	--	--	--	--	--	--	--	--	164.06	8.97	155.09	--	--	--
MW-4	01/08/1998	<1,000	55	<10	13	<10	2,000	--	--	--	--	--	--	--	--	164.06	7.90	156.16	--	--	--
MW-4	04/13/1998	350	110	2.4	20	26	<2.5	--	--	--	--	--	--	--	--	164.06	7.35	156.71	--	--	--
MW-4	07/17/1998	210	66	0.78	5.4	9.8	1,700	--	--	--	--	--	--	--	--	164.06	6.95	157.11	--	--	--
MW-4	10/02/1998	<50	0.69	<0.50	<0.50	<0.50	2,900	--	--	--	--	--	--	--	--	164.06	7.35	156.71	--	--	--
MW-4	02/03/1999	560	120	2.5	29	34	6,800	--	--	--	--	--	--	--	--	164.06	7.71	156.35	--	0.9	--
MW-4	04/29/1999	390	80	1.9	13	19	7,000	8,360	--	--	--	--	--	--	--	164.06	7.83	156.23	--	1.1	-125
MW-4	07/23/1999	460	93.6	8.40	25.2	28.8	3,760	6,000 f	--	--	--	--	--	--	--	164.06	11.33	152.73	--	0.9	--
MW-4	11/01/1999	77.3	0.520	<0.500	<0.500	<0.500	539	--	--	--	--	--	--	--	--	164.06	10.66	153.40	--	2.8	3
MW-4	01/17/2000	160	27	<0.50	12	6.3	12,000	--	--	--	--	--	--	--	--	164.06	10.15	153.91	--	3.9	-17
MW-4	04/17/2000	<500	26	6.38	9.35	10.4	9,070	--	--	--	--	--	--	--	--	164.06	10.10	153.96	--	1.7	-129
MW-4	07/26/2000	<500	22.7	<5.00	7.59	6.96	7,660	--	--	--	--	--	--	--	--	164.06	10.09	153.97	--	1.4	-137
MW-4	10/12/2000	172	19.8	<0.500	7.47	4.50	8,290	--	--	--	--	--	--	--	--	164.06	9.35	154.71	--	3.5	529
MW-4	01/15/2001	53.6	1.50	<0.500	2.45	1.80	9,260	--	--	--	--	--	--	--	--	164.06	8.77	155.29	--	2.3	53
MW-4	04/09/2001	<500	<5.00	<5.00	<5.00	5.52	10,300	--	--	--	--	--	--	--	--	164.06	7.75	156.31	--	1.0	-133
MW-4	07/24/2001	58	3.8	<0.50	3.2	2.9	--	1,700	--	--	--	--	--	--	--	164.06	10.07	153.99	--	0.5	106
MW-4	10/31/2001	<1,000	<10	<10	<10	<10	--	7,400	--	--	--	--	--	--	--	164.06	9.97	154.09	--	0.8	22
MW-4	01/10/2002	<2,000	<20	<20	<20	<20	--	12,000	--	--	--	--	--	--	--	164.06	8.53	155.53	--	8.9	224
MW-4	04/25/2002	<2,000	<20	<20	<20	<20	--	7,900	--	--	--	--	--	--	--	164.06	7.33	156.73	--	3.6	-84
MW-4	07/18/2002	<2,000	<20	<20	<20	<20	--	7,200	--	--	--	--	--	--	--	164.06	9.05	155.01	--	1.7	120
MW-4	10/07/2002	<1,000	<10	<10	<10	<10	--	3,300	--	--	--	--	--	--	--	164.03	9.06	154.97	--	2.5	33
MW-4	01/06/2003	<500	21	<5.0	<5.0	<5.0	--	2,500	--	--	--	--	--	--	--	164.03	7.09	156.94	--	0.5	55
MW-4	04/07/2003	<2,500	<25	<25	<25	<50	--	1,700	5,900	--	--	--	--	--	--	164.03	8.26	155.77	--	1.2	69
MW-4	07/07/2003	<2,500	<25	<25	<25	<50	--	860	6,900	--	--	--	--	--	--	164.03	8.92	155.11	--	0.5	-3
MW-4	10/09/2003	<500	<5.0	<5.0	<5.0	<10	--	420	6,700	--	--	--	--	--	--	164.03	8.91	155.12	--	0.7	171
MW-4	01/14/2004	<1,000	24	<10	<10	<20	--	500	7,200	--	--	--	--	--	--	164.03	8.34	155.69	--	1.2	140
MW-4	04/28/2004	<500	6.0	<5.0	<5.0	<10	--	310	5,200	--	--	--	--	--	--	164.03	7.55	156.48	--	0.4	69
MW-4	07/12/2004	<500	11	<5.0	7.8	<10	--	370	5,900	<20	<20	<20	--	--	<500	164.03	8.12	155.91	--	0.5	142
MW-4	10/25/2004	<500	<5.0	<5.0	5.6	<10	--	280	4,300	--	--	--	--	--	--	164.03	7.85	156.18	--	1.90	-70
MW-4	01/17/2005	<1,000	56	<10	10	<20	--	380	8,400	--	--	--	--	--	--	164.03	6.08	157.95	--	0.4	6
MW-4	04/06/2005	<1,000	52	<10	11	<20	--	450	12,000	--	--	--	--	--	--	164.03	8.10	155.93	--	0.49	11
MW-4	07/08/2005	<400	30	<4.0	6.0	<4.0	--	250	9,600	<4.0	<4.0	<4.0	--	--	<40	164.03	7.50	156.53	--	0.6	71
MW-4	07/08/2005	<400	30	<4.0	6.0	<4.0	--	250	9,600	<4.0	<4.0	<4.0	--	--	<40	164.03	7.50	156.53	--	0.6	71
MW-4	10/07/2005	<1,000	<10	<10	<10	<20	--	200	8,900	--	--	--	--	--	--	164.03	8.30	155.73	--	--	--
MW-4	01/27/2006	1,140	34.3	2.37	8.69	12.0	--	198	32,100	--	--	--	--	--	--	164.03	8.55	155.48	--	--	--
MW-4	04/28/2006	1,490	46.8	2.80	21.2	24.8	--	344	14,800	--	--	--	--	--	--	164.03	9.02	155.01	--	--	--
MW-4	07/28/2006	951	5.09	<0.500	<0.500	<0.500	--	169	4,830	1.57	<0.500	<0.500	--	--	<50.0	164.03	9.19	154.84	--	--	--

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-4	10/27/2006	1,620	21.5	2.65	13.2	10.3	—	173	5,150	—	—	—	—	—	—	164.03	9.01	155.02	—	—	—
MW-4	01/10/2007	740	56	2.4	23	24	—	190	7,500 f	—	—	—	—	—	—	164.03	6.95	157.08	—	—	—
MW-4	04/13/2007	1,500 g	130	20	100	138	—	120	6,300	—	—	—	—	—	—	164.03	7.51	156.52	—	—	—
MW-4	07/09/2007	650 g	65	5.3 i	36	33.2 i	—	130	6,000	<20	<20	<20	—	—	<1,000	164.03	7.85	156.18	—	—	—
MW-4	10/08/2007	840 g	100	23	70	120	—	120	5,300	—	—	—	—	—	—	164.03	8.50	155.53	—	—	—
MW-4	01/09/2008	2,200 g	130	38	130	264	—	160	5,400	—	—	—	—	—	—	164.03	8.33	155.70	—	—	—
MW-4	04/04/2008	1,700	93	24	74	145	—	110	3,700	—	—	—	—	—	—	164.03	6.63	157.40	—	—	—
MW-4	07/03/2008	1,400	87	15	54	109	—	88	3,900	<20	<20	<20	—	—	<1,000	164.03	8.25	155.78	—	—	—
MW-4	10/03/2008	1,000	61	12	41	78	—	84	3,700	—	—	—	—	—	—	164.03	8.54	155.49	—	—	—
MW-4	01/22/2009	800	26	5.4	14	26	—	81	4,100	—	—	—	—	—	—	164.03	7.40	156.63	—	—	—
MW-4	04/13/2009	2,000	100	26	64	130	—	69	3,200	—	—	—	—	—	—	164.03	6.91	157.12	—	—	—
MW-4	07/23/2009	1,500	180	54	86	200	—	85	2,500	<10	<10	<10	—	—	<500	164.03	7.97	156.06	—	—	—
MW-4	02/01/2010	1,400	120	44	57	120	—	81	2,900	—	—	—	—	—	—	164.03	6.05	157.98	—	—	—
MW-4	08/02/2010	340,000	5,300	5,800	7,700	26,000	—	62	1,800	—	—	—	—	—	—	164.03	6.48	157.65	0.12	—	—
MW-4	01/31/2011	9,700	47	62	340	1,100	—	77	1,300	—	—	—	<5.0	<5.0	—	164.03	6.67	157.36	—	—	—
MW-4	04/26/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	164.03	8.73	155.30	0.00	—	—
MW-4	07/25/2011	94,000	2,800	2,900	3,800	12,000	—	<100	<1,000	<100	<100	<100	—	—	<15,000	164.03	7.27	156.76	0.00	—	—
MW-4	10/13/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	164.03	7.57	156.46	0.00	—	—
MW-4	01/23/2012	6,100	83	61	230	510	—	46	150	—	—	—	—	—	—	164.03	5.82	158.21	0.00	—	—
MW-4	04/23/2012	—	—	—	—	—	—	—	—	—	—	—	—	—	—	164.03	6.50	157.53	0.00	—	—
MW-4	07/24/2012	5,400	95	33	160	410	—	42	67	<2.5	<2.5	<2.5	—	—	—	164.03	7.19	156.84	0.00	—	—
MW-5	01/04/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.62	—	—	—	—
MW-5	01/10/2002	<50	<0.50	<0.50	<0.50	<0.50	—	110	—	—	—	—	—	—	—	164.06	5.88	158.18	—	3.3	172
MW-5	04/25/2002	<50	<0.50	<0.50	<0.50	<0.50	—	73	—	—	—	—	—	—	—	164.06	6.81	157.25	—	0.3	44
MW-5	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	—	75	—	—	—	—	—	—	—	164.06	7.38	156.68	—	0.4	170
MW-5	10/07/2002	<50	<0.50	<0.50	<0.50	<0.50	—	41	—	—	—	—	—	—	—	164.14	6.75	157.39	—	1.5	16
MW-5	01/06/2003	<50	<0.50	<0.50	<0.50	<0.50	—	81	—	—	—	—	—	—	—	164.14	5.96	158.18	—	0.6	166
MW-5	04/07/2003	<50	<0.50	<0.50	<0.50	<1.0	—	77	28	—	—	—	—	—	—	164.14	6.51	157.63	—	0.8	174
MW-5	07/07/2003	<50	<0.50	<0.50	<0.50	<1.0	—	32	23	—	—	—	—	—	—	164.14	6.44	157.70	—	0.3	-17
MW-5	10/09/2003	<50	<0.50	<0.50	<0.50	<1.0	—	59	40	—	—	—	—	—	—	164.14	7.05	157.09	—	0.9	17
MW-5	01/14/2004	<50	<0.50	0.76	<0.50	<1.0	—	47	17	—	—	—	—	—	—	164.14	6.29	157.85	—	1.6	209
MW-5	04/28/2004	<50	<0.50	<0.50	<0.50	<1.0	—	31	11	—	—	—	—	—	—	164.14	6.84	157.30	—	0.4	136
MW-5	07/12/2004	<50	<0.50	<0.50	<0.50	<1.0	—	47	12	<2.0	<2.0	<2.0	—	—	<50	164.14	7.57	156.57	—	0.4	90
MW-5	10/25/2004	<50	<0.50	<0.50	<0.50	<1.0	—	41	13	—	—	—	—	—	—	164.14	6.50	157.64	—	1.74	-21
MW-5	01/17/2005	<50	<0.50	<0.50	<0.50	<1.0	—	41	12	—	—	—	—	—	—	164.14	5.83	158.31	—	0.1	-7
MW-5	04/06/2005	<50	<0.50	<0.50	<0.50	<1.0	—	12	<5.0	—	—	—	—	—	—	164.14	5.91	158.23	—	1.05	-62
MW-5	07/08/2005	<50	<0.50	<0.50	<0.50	<0.50	—	26	18	<0.50	<0.50	<0.50	—	—	<5.0	164.14	6.78	157.36	—	1.2	81

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-5	10/07/2005	<50	<0.50	<0.50	<0.50	<1.0	—	28	24	—	—	—	—	—	—	164.14	7.64	156.50	—	—	—
MW-5	01/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	—	26.7	46.3	—	—	—	—	—	—	164.14	6.21	157.93	—	—	—
MW-5	04/28/2006	<50.0	<0.500	<0.500	<0.500	<0.500	—	39.1	15.0	—	—	—	—	—	—	164.14	6.05	158.09	—	—	—
MW-5	07/28/2006	103	<0.500	<0.500	<0.500	<0.500	—	35.5	<10.0	<0.500	<0.500	<0.500	—	—	<50.0	164.14	7.54	156.60	—	—	—
MW-5	10/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	—	19.7	26.0 d	—	—	—	—	—	—	164.14	7.91	156.23	—	—	—
MW-5	01/10/2007	<50	<0.50	<0.50	<0.50	<1.0	—	11	16	—	—	—	—	—	—	164.14	6.38	157.76	—	—	—
MW-5	04/13/2007	76 g,h	<0.50	<1.0	<1.0	<1.0	—	35	37	—	—	—	—	—	—	164.14	6.58	157.56	—	—	—
MW-5	07/09/2007	<50 g	<0.50	<1.0	<1.0	<1.0	—	26	34	<2.0	<2.0	<2.0	—	—	<100	164.14	7.28	156.86	—	—	—
MW-5	10/08/2007	<50 g	<0.50	<1.0	<1.0	<1.0	—	25	28	—	—	—	—	—	—	164.14	8.01	156.13	—	—	—
MW-5	01/09/2008	<50 g	0.15 i	<1.0	<1.0	<1.0	—	11	7.6 i	—	—	—	—	—	—	164.14	5.45	158.69	—	—	—
MW-5	04/04/2008	50	<0.50	<1.0	<1.0	<1.0	—	17	<10	—	—	—	—	—	—	164.14	6.61	157.53	—	—	—
MW-5	07/03/2008	<50	<0.50	<1.0	<1.0	<1.0	—	16	11	<2.0	<2.0	<2.0	—	—	<100	164.14	7.40	156.74	—	—	—
MW-5	10/03/2008	<50	<0.50	<1.0	<1.0	<1.0	—	17	14	—	—	—	—	—	—	164.14	7.90	156.24	—	—	—
MW-5	01/22/2009	<50	<0.50	<1.0	<1.0	<1.0	—	9.2	<10	—	—	—	—	—	—	164.14	6.30	157.84	—	—	—
MW-5	04/13/2009	<50	<0.50	<1.0	<1.0	<1.0	—	8.4	<10	—	—	—	—	—	—	164.14	6.42	157.72	—	—	—
MW-5	07/23/2009	<50	<0.50	<1.0	<1.0	<1.0	—	15	<10	<2.0	<2.0	<2.0	—	—	<100	164.14	7.60	156.54	—	—	—
MW-5	02/01/2010	<50	<0.50	<1.0	<1.0	<1.0	—	9.0	<10	—	—	—	—	—	—	164.14	5.80	158.34	—	—	—
MW-5	08/02/2010	<50	<0.50	<1.0	<1.0	<1.0	—	7.5	<10	—	—	—	—	—	—	164.14	7.00	157.14	—	—	—
MW-5	01/31/2011	<50	<0.50	<0.50	<0.50	<1.0	—	7.5	<10	—	—	—	<0.50	<0.50	—	164.14	5.79	158.35	—	—	—
MW-5	07/25/2011	Unable to locate	—	—	—	—	—	—	—	—	—	—	—	—	—	164.14	—	—	—	—	—
MW-5	01/23/2012	<50	<0.50	<0.50	<0.50	<1.0	—	5.7	<10	—	—	—	—	—	—	164.14	5.40	158.74	—	—	—
MW-5	07/24/2012	<50	<0.50	<0.50	<0.50	<1.0	—	9.0	<10	<0.50	<0.50	<0.50	—	—	—	164.14	6.45	157.69	—	—	—
MW-6	06/26/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	—	169.89	10.25	159.64	—	—	—
MW-6	07/28/2006	19,200	1,290	41.7	141	245	—	777	8,340	3.37	<0.500	<0.500	—	—	<50.0	169.89	11.00	158.89	—	—	—
MW-6	10/27/2006	11,400	1,250	41.0	155	242	—	569	7,270	—	—	—	—	—	—	169.89	11.41	158.48	—	—	—
MW-6	01/10/2007	7,000	1,000	26	270	240	—	770	17,000	—	—	—	—	—	—	169.89	9.43	160.46	—	—	—
MW-6	04/13/2007	4,200 g	820	22	72	71	—	490	9,500	—	—	—	—	—	—	169.89	9.81	160.08	—	—	—
MW-6	07/09/2007	6,100 g	960	23	65	116	—	280	8,400	<40	<40	<40	—	—	<2,000	169.89	10.80	159.09	—	—	—
MW-6	10/08/2007	3,600 g	960	17 i	27	76 i	—	260	7,000	—	—	—	—	—	—	169.89	11.64	158.25	—	—	—
MW-6	01/09/2008	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	169.89	—	—	—	—	—
MW-6	01/22/2008	4,100 g	610	14 i	31	19 i	—	180	7,700	—	—	—	—	—	—	169.89	8.81	161.08	—	—	—
MW-6	04/04/2008	6,100	760	<20	20	29	—	240	6,900	—	—	—	—	—	—	169.89	10.01	159.88	—	—	—
MW-6	07/03/2008	7,100	1,100	<20	25	50	—	220	9,400	<40	<40	<40	—	—	<2,000	169.89	10.94	158.95	—	—	—
MW-6	10/03/2008	7,400	1,000	<20	<20	116	—	270	8,400	—	—	—	—	—	—	169.89	11.87	158.02	—	—	—
MW-6	01/22/2009	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	169.89	—	—	—	—	—
MW-6	04/13/2009	5,300	690	<20	35	47	—	210	9,000	—	—	—	—	—	—	169.89	9.70	160.19	—	—	—
MW-6	07/23/2009	6,800	1,100	<20	<20	42	—	220	7,400	<40	<40	<40	—	—	<2000	169.89	11.09	158.80	—	—	—

TABLE 1

**GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-6	02/01/2010	4,000	460	<10	<10	<10	—	88	8,400	—	—	—	—	—	—	169.89	8.05	161.84	—	—	—
MW-6	08/02/2010	7,600	860	15	18	49	—	97	6,800	—	—	—	—	—	—	169.89	10.50	159.39	—	—	—
MW-6	01/31/2011	2,800	370	11	19	26	—	170	4,800	—	—	—	<5.0	<5.0	—	169.89	8.52	161.37	—	—	—
MW-6	07/25/2011	4,600	730	13	6.5	18	—	110	5,500	<10	<10	<10	—	—	<1,500	169.89	10.08	159.81	—	—	—
MW-6	01/23/2012	2,100	300	5.3	5.1	13	—	61	3,100	—	—	—	—	—	—	169.89	8.18	161.71	—	—	—
MW-6	07/24/2012	3,400	510	8.8	5.8	14	—	110	5,100	<5.0	<5.0	<5.0	—	—	—	169.89	10.01	159.88	—	—	—
MW-7	06/26/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	—	170.87	9.59	161.28	—	—	—
MW-7	07/28/2006	5,860	72.0	6.67	25.4	165	—	3,940	1,420	<0.500	<0.500	2.89	—	—	<50.0	170.87	10.08	160.79	—	—	—
MW-7	10/27/2006	1,180	8.67	<0.500	2.48	7.52	—	1,100	184	—	—	—	—	—	—	170.87	10.13	160.74	—	—	—
MW-7	01/10/2007	1,000	12	<5.0	<5.0	<10	—	2,200 f	2,400	—	—	—	—	—	—	170.87	8.41	162.46	—	—	—
MW-7	04/13/2007	1,100 g,h	54	<20	18 i	23.5 i	—	2,500	3,800	—	—	—	—	—	—	170.87	8.25	162.62	—	—	—
MW-7	07/09/2007	1,100 g	41	<20	8.8 i	4.5 i	—	2,000	1,200	<40	<40	<40	—	—	<2,000	170.87	9.22	161.65	—	—	—
MW-7	10/08/2007	400 g	25	<20	<20	<20	—	1,500	740	—	—	—	—	—	—	170.87	9.41	161.46	—	—	—
MW-7	01/09/2008	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	170.87	—	—	—	—	—
MW-7	01/22/2008	160 g	32	<10	<10	<10	—	1,900	820	—	—	—	—	—	—	170.87	7.63	163.24	—	—	—
MW-7	04/04/2008	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	170.87	—	—	—	—	—
MW-7	07/03/2008	1,500	11	<10	<10	<10	—	1,700	680	<20	<20	<20	—	—	<1,000	170.87	8.96	161.91	—	—	—
MW-7	10/03/2008	1,000	5.6	<10	<10	<10	—	970	550	—	—	—	—	—	—	170.87	9.57	161.30	—	—	—
MW-7	01/22/2009	880	<5.0	<10	<10	18	—	550	250	—	—	—	—	—	—	170.87	8.60	162.27	—	—	—
MW-7	04/13/2009	1,400	15	<10	<10	<10	—	820	440	—	—	—	—	—	—	170.87	8.24	162.63	—	—	—
MW-7	07/23/2009	1,400	12	<10	<10	<10	—	1,300	550	<20	<20	<20	—	—	<1000	170.87	9.10	161.77	—	—	—
MW-7	02/01/2010	1,300	20	<10	<10	<10	—	1,300	920	—	—	—	—	—	—	170.87	6.81	164.06	—	—	—
MW-7	08/02/2010	780	10	<5.0	<5.0	<5.0	—	890	680	—	—	—	—	—	—	170.87	8.55	162.32	—	—	—
MW-7	01/31/2011	340	12	3.2	6.1	17	—	390	480	—	—	—	<2.5	<2.5	—	170.87	7.58	163.29	—	—	—
MW-7	07/25/2011	480 j	8.8	<2.5	3.8	5.8	—	500	480	<5.0	<5.0	<5.0	—	—	<750	170.87	8.11	162.76	—	—	—
MW-7	01/23/2012	Unable to access	—	—	—	—	—	—	—	—	—	—	—	—	—	170.87	—	—	—	—	—
MW-7	07/24/2012	610	9.2	<2.5	<2.5	6.6	—	540	600	<2.5	<2.5	<2.5	—	—	—	170.87	8.30	162.57	—	—	—
MW-8	06/26/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	—	174.13	4.53	169.60	—	—	—
MW-8	07/28/2006	2,300	<0.500	<0.500	<0.500	<0.500	—	1,380	<10.0	<0.500	<0.500	0.950	—	—	<50.0	174.13	4.55	169.58	—	—	—
MW-8	10/27/2006	1,570	2.79 e	<0.500	<0.500	<0.500	—	1,280 e	<10.0	—	—	—	—	—	—	174.13	4.87	169.26	—	—	—
MW-8	01/10/2007	540	<2.5	<2.5	<2.5	<5.0	—	1,200 f	750	—	—	—	—	—	—	174.13	4.17	169.96	—	—	—
MW-8	04/13/2007	450 g,h	<5.0	<10	<10	<10	—	1,400	<100	—	—	—	—	—	—	174.13	4.13	170.00	—	—	—
MW-8	07/09/2007	590 g	<5.0	<10	<10	<10	—	1,000	<100	<20	<20	<20	—	—	<1,000	174.13	6.33	167.80	—	—	—
MW-8	10/08/2007	270 g,h	<5.0	<10	<10	<10	—	1,200	<100	—	—	—	—	—	—	174.13	5.63	168.50	—	—	—
MW-8	01/09/2008	200 g,h	<2.5	<5.0	<5.0	<5.0	—	370	<50	—	—	—	—	—	—	174.13	4.17	169.96	—	—	—
MW-8	04/04/2008	1,000	<5.0	<10	<10	<10	—	930	<100	—	—	—	—	—	—	174.13	4.36	169.77	—	—	—

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
MW-8	07/03/2008	960	<5.0	<10	<10	<10	—	1,000	<100	<20	<20	<20	—	—	<1,000	174.13	5.05	169.08	—	—	—
MW-8	10/03/2008	820	<5.0	<10	<10	<10	—	830	<100	—	—	—	—	—	—	174.13	5.54	168.59	—	—	—
MW-8	01/22/2009	1,000	<2.5	<5.0	<5.0	<5.0	—	740	<50	—	—	—	—	—	—	174.13	5.00	169.13	—	—	—
MW-8	04/13/2009	810	<2.5	<5.0	<5.0	<5.0	—	520	<50	—	—	—	—	—	—	174.13	4.51	169.62	—	—	—
MW-8	07/23/2009	840	<2.5	<5.0	<5.0	<5.0	—	830	<50	<10	<10	<10	—	—	<500	174.13	4.92	169.21	—	—	—
MW-8	02/01/2010	270	<1.0	<2.0	<2.0	<2.0	—	260	<20	—	—	—	—	—	—	174.13	3.65	170.48	—	—	—
MW-8	08/02/2010	430	<2.5	<5.0	<5.0	<5.0	—	480	<50	—	—	—	—	—	—	174.13	4.52	169.61	—	—	—
MW-8	01/31/2011	<250	<2.5	<2.5	<2.5	<5.0	—	380	300	—	—	—	<2.5	<2.5	—	174.13	4.29	169.84	—	—	—
MW-8	07/25/2011	300 j	<2.0	<2.0	<2.0	<4.0	—	350	<40	<4.0	<4.0	<4.0	—	—	<600	174.13	4.56	169.57	—	—	—
MW-8	01/23/2012	<250	<2.5	<2.5	<2.5	<5.0	—	320	98	—	—	—	—	—	—	174.13	4.49	169.64	—	—	—
MW-8	07/24/2012	350	<2.5	<2.5	<2.5	<5.0	—	330	<50	<2.5	<2.5	<2.5	—	—	—	174.13	4.85	169.28	—	—	—
MW-9	06/26/2006	—	—	—	—	—	—	—	—	—	—	—	—	—	—	175.20	6.41	168.79	—	—	—
MW-9	07/28/2006	5,690	19.2	2.64	2.02	57.7	—	5,780	166	<0.500	<0.500	2.74	—	—	<50.0	175.20	6.69	168.51	—	—	—
MW-9	10/27/2006	2,710	34.2	<0.500	2.76	4.75	—	2,140	29.2 d	—	—	—	—	—	—	175.20	6.90	168.30	—	—	—
MW-9	01/10/2007	1,500	340	6.8	8.9	27	—	2,300 f	1,400	—	—	—	—	—	—	175.20	6.14	169.06	—	—	—
MW-9	04/13/2007	1,600 g,h	390	4.1 i	8.6 i	4.7 i	—	3,700	120	—	—	—	—	—	—	175.20	6.17	169.03	—	—	—
MW-9	07/09/2007	1,200 g	55	<25	<25	<25	—	2,500	<250	<50	<50	<50	—	—	<2,500	175.20	6.65	168.55	—	—	—
MW-9	10/08/2007	520 g,h	9.1 i	<25	<25	<25	—	2,500	<250	—	—	—	—	—	—	175.20	7.58	167.62	—	—	—
MW-9	01/09/2008	350 g,h	3.4 i	<10	<10	<10	—	650	<100	—	—	—	—	—	—	175.20	6.30	168.90	—	—	—
MW-9	04/04/2008	1,500	88	<10	<10	<10	—	1,200	<100	—	—	—	—	—	—	175.20	6.05	169.15	—	—	—
MW-9	07/03/2008	2,600	70	<10	<10	<10	—	2,800	<100	<20	<20	<20	—	—	<1,000	175.20	7.00	168.20	—	—	—
MW-9	10/03/2008	2,600	160	<20	<20	<20	—	2,400	<200	—	—	—	—	—	—	175.20	7.39	167.81	—	—	—
MW-9	01/22/2009	2,900	130	<20	<20	30	—	1,900	<200	—	—	—	—	—	—	175.20	7.00	168.20	—	—	—
MW-9	04/13/2009	5,200	590	24	60	89	—	1,600	230	—	—	—	—	—	—	175.20	6.47	168.73	—	—	—
MW-9	07/23/2009	6,300	830	30	150	130	—	3,200	170	<20	<20	<20	—	—	<1000	175.20	7.05	168.15	—	—	—
MW-9	02/01/2010	18,000	1,900	130	770	1,200	—	2,400	430	—	—	—	—	—	—	175.20	5.70	169.50	—	—	—
MW-9	08/02/2010	2,200	270	<10	99	36	—	1,200	280	—	—	—	—	—	—	175.20	6.50	168.70	—	—	—
MW-9	01/31/2011	1,100	120	9.5	60	63	—	1,100	1,000	—	—	—	<5.0	<5.0	—	175.20	6.21	168.99	—	—	—
MW-9	07/25/2011	1,200	210	<5.0	67	15	—	710	480	<10	<10	<10	—	—	<1,500	175.20	6.53	168.67	—	—	—
MW-9	01/23/2012	390	9.9	<1.0	4.7	5.8	—	460	370	—	—	—	—	—	—	175.20	6.49	168.71	—	—	—
MW-9	07/24/2012	970	91	<5.0	15	<10	—	660	530	<5.0	<5.0	<5.0	—	—	—	175.20	6.95	168.25	—	—	—
TB-1	04/29/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.00	—	—	3.8	-132
TB-1	11/01/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.65	—	—	0.2	-165
TB-1	01/17/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.72	—	—	0.8	-178
TB-1	04/17/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.65	—	—	0.5	-152
TB-1	07/26/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.13	—	—	1.0	-124

TABLE 1

**GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
TB-1	10/12/2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.20	--	--	0.7	-73
TB-1	01/15/2001	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.09	--	--	1.2	-118
TB-1	04/09/2001	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.96	--	--	1.0	-72
TB-1	07/24/2001	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.03	--	--	1.4	31
TB-1	10/31/2001	1,000	85	<10	<10	42	--	4,100	--	--	--	--	--	--	--	--	5.89	--	--	1.8	88
TB-1	01/10/2002	5,000	410	390	65	620	--	9,000	--	--	--	--	--	--	--	--	7.47	--	--	2.0	95
TB-1	04/25/2002	5,000	780	60	49	91	--	6,000	--	--	--	--	--	--	--	--	11.71	--	--	1.7	-136
TB-1	07/18/2002	Insufficient water		--	--	--	--	--	--	--	--	--	--	--	--	--	13.50	--	--	--	--
TB-1	10/07/2002	4,600	480	36	98	200	--	4,000	--	--	--	--	--	--	--	--	12.95	--	--	1.6	-48
TB-1	01/06/2003	130	30	<0.50	<0.50	0.78	--	330	--	--	--	--	--	--	--	--	5.56	--	--	0.4	-20
TB-2	04/29/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.76	--	--	4.2	-108
TB-2	11/01/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.33	--	--	0.5	-148
TB-2	01/17/2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.79	--	--	0.7	-162
TB-2	04/17/2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.75	--	--	0.9	-121
TB-2	07/26/2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.73	--	--	0.9	-85
TB-2	10/12/2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.05	--	--	0.6	-47
TB-2	01/15/2001	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.87	--	--	0.7	-91
TB-2	04/09/2001	46,600	1,240	1,310	1,110	12,100	31,300	--	--	--	--	--	--	--	--	--	3.76	--	--	0.8	-24
TB-2	07/24/2001	11,000	630	<25	310	200	--	11,000	--	--	--	--	--	--	--	--	4.75	--	--	0.4	-51
TB-2	10/31/2001	7,500	530	1,500	100	500	--	2,500	--	--	--	--	--	--	--	--	4.24	--	--	0.6	-7
TB-2	01/10/2002	<5,000	480	47	34	110	--	12,000	--	--	--	--	--	--	--	--	6.26	--	--	1.3	-81
TB-2	04/25/2002	4,700	470	140	<20	80	--	7,400	--	--	--	--	--	--	--	--	11.78	--	--	0.9	-107
TB-2	07/18/2002	7,500	630	650	<25	390	--	44,000	--	--	--	--	--	--	--	--	12.34	--	--	0.9	-67
TB-2	10/07/2002	<10,000	580	<100	<100	180	--	30,000	--	--	--	--	--	--	--	--	11.62	--	--	1.0	-41
TB-2	01/06/2003	120	4.8	<0.50	<0.50	2.0	--	220	--	--	--	--	--	--	--	--	4.35	--	--	0.5	-515

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by method as 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

EDB = 1,2-dibromoethane analyzed by EPA Method 8260B

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

Ethanol analyzed by EPA Method 8260B.

**GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (m/L)	ORP Reading (mV)
---------	------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	---------------	----------------	----------------	----------------	---------------	-----------------------	-------------------	-----------------	-------------------------------	-----------------------------	--------------------------	------------------------	------------------------

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

SPH = Separate-phase hydrocarbon

GW = Groundwater

DO = Dissolved oxygen

ORP = Oxidation reduction potential

µg/L = Micrograms per liter

ft = Feet

MSL = Mean sea level

m/L = Milligrams per liter

mV = Millivolts

<x = Not detected at reporting limit x

--- = Not analyzed or not available

(D) = Duplicate sample

a = Groundwater surface had a sheen when sampled.

b = MTBE value is estimated by laboratory

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

d = Secondary ion abundances were outside method requirements. Identification based on analytical judgment.

e = pH>2

f = Sample analyzed outside the EPA recommended holding time.

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

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

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

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

When SPHs are present, groundwater elevation is adjusted using the relation: Corrected groundwater elevation = TOC - Depth to Water + (0.8 x Hydrocarbon Thickness).

Site wells surveyed March 14, 2002 by Virgil Chavez Land Surveying

Wells MW-6, MW-7, MW-8 and MW-9 surveyed July 12, 2006 by Virgil Chavez Land Surveying

APPENDIX A

BLAINE TECH SERVICES, INC. -
FIELD NOTES

WELL GAUGING DATA

Project # 120423-GR3 Date 4/23/2012 Client Shell

Site 4255 MacArthur Blvd., Oakland, 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 TOB	Notes
MW-2	1451	4	sheen / odor	Interface probe used Heavy sheen detected			9.20	—	↓	
MW-3	1420	4	odor	Interface probe used no product detected			11.43	—		
MW-4	1520	2		Interface probe use no product detected			6.50	—		

SHELL WELL MONITORING DATA SHEET

BTS #: 120423-GR3	Site: 4255 MacArthur Blvd., Oakland, CA
Sampler: GR	Date: 4/23/2012
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 9.20
Depth to Free Product: ^{Heavy sheen} No product detected	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]: —	

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

$\frac{\text{--- (Gals.)} \times \text{---}}{\text{I Case Volume Specified Volumes}} = \text{--- Gals. Calculated Volume}$	<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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
* Heavy sheen detected, no product observed on disposable bailer.						
* (2) socks removed from well.				Total weight:	0.73 kg	(1.60 lbs)
* (2) new socks installed in well.				Total weight:	0.25 kg	(0.54 lbs)

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Date: 	Sampling Time:
Sample I.D.: 	Laboratory: Test America Other
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other	
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: <input type="text"/> mg/L	Post-purge: <input type="text"/> mg/L
O.R.P. (if req'd): Pre-purge: <input type="text"/> mV	Post-purge: <input type="text"/> mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>120423-GR3</u>	Site: <u>4255 MacArthur Blvd., Oakland, CA</u>
Sampler: <u>GR</u>	Date: <u>4/23/2012</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth (TD): <u> </u>	Depth to Water (DTW): <u>11.23</u>
Depth to Free Product: <u>No product detected</u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u> </u>	

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

$\text{--- (Gals.)} \times \text{---} = \text{--- Gals.}$ 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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
*						No product detected in well.
*						(2) socks removed from well. Total weight: 0.69kg (1.50lbs)
*						(2) new socks installed in well. Total weight: 0.24kg (0.52lbs)

Did well dewater? Yes No	Gallons actually evacuated: _____
Sampling Date: _____	Sampling Time: _____
Sample I.D.: _____	Depth to Water: _____
Sample I.D.: _____	Laboratory: Test America Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____	
EB I.D. (if applicable): _____ @ _____ Times	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 #: 120423-GR3	Site: 4255 MacArthur Blvd., Oakland, CA
Sampler: GR	Date: 4/23/2012
Well I.D.: MW-4	Well Diameter: ② 3 4 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 6.50
Depth to Free Product: no product detected	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]: —	

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

$\frac{\text{_____ (Gals.)} \times \text{_____}}{\text{I Case Volume Specified Volumes}} = \text{_____ Gals. Calculated Volume}$	<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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
* no product detected in well						
* (1) sock removed from well.				Total weight:	0.30 kg	(0.60 lbs)
* (1) new sock installed in well.				Total weight:	0.16 kg	(0.36 lbs)

Did well dewater? Yes No		Gallons actually evacuated: _____	
Sampling Date: _____		Sampling Time: _____	
Sample I.D.: _____		Depth to Water: _____	
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 #

98495753

ADDRESS

4255 MacArthur Blvd.

DATE:

4/23/2012

CITY & STATE

Oakland, 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 Property		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad/ Surface Condition							
MW-2	Standpipe	Flush	G	P	Size (inch) 12	G	N	G	R	G	R	NL	G	P					Y	N
MW-3	Standpipe	Flush	G	P	Size (inch) 12	G	N	G	R	G	R	NL	G	P		Y	N			
MW-4	Standpipe	Flush	G	P	Size (inch) 12	G	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			
	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					0									
Condition of Soil Boring Patches or Abandoned Monitoring Wells:		G	P	N/A	If POOR, Boring Well IDs or Location Description:													Y	N	
Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted			Photos of Condition		Repair Date PM Initials	
NA		G			G			G			Y						Y			
Building		G			G			G			Y						Y			
Building w/ Fence Comp.		G			G			G			Y						Y			
Fenced Compound		G			G			G			Y						Y			
Trailer		G			G			G			Y						Y			
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 Environment		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved			Photos of Drum Condition		Date Drums Removed from Site and PM Initials		
2	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).

Gregory Roberts, Blaine Tech Services
Print or type Name of Field Personnel & Consultant Company

WELL GAUGING DATA

Project # 120724-MM1 Date 7-24-12 Client Shell

Site 4255 MacArthur Blvd., Oakland, 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 TOC	Notes
MW-1	0900	4					7.80	23.32		
MW-2	0921	4		NO SPH DETECTED		—	10.82	19.58		ABS SOCKS
MW-3	0913	4		13.83	0.01	—	13.84	21.88		ABS SOCKS
MW-4	0925	2		NO SPH DETECTED		—	7.19	30.64		ABS SOCKS
MW-5	0848	2					6.45	19.85		
MW-6	0908	2					10.01	23.62		
MW-7	0858	4					8.30	29.00		
MW-8	0854	4					4.85	29.75		
MW-9	0905	4					6.95	29.62	✓	

SHELL WELL MONITORING DATA SHEET

BTS #: 120724-MM1	Site: 4255 MacArthur Blvd Oakland, CA
Sampler: MM	Date: 7-24-12
Well I.D.: MW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 23.32	Depth to Water (DTW): 7.80
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]: 10.90	

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

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

10 (Gals.) X	<u>3</u>	=	<u>30</u>	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
1046	68.1	6.89	824.2	9	10	
						WELL DEWATERED AT 11 GAL
1330	67.8	6.94	963.8	19	GRAB	

Did well dewater? Yes No Gallons actually evacuated: 11

Sampling Date: 7-24-12 Sampling Time: 1330 Depth to Water: 12.12 (2 HR+)

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

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 120724-MM1	Site: 4255 MacArthur Blvd Oakland, CA
Sampler: MM	Date: 7-24-12
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.58	Depth to Water (DTW): 10.82
Depth to Free Product: NO PRODUCT DETECTED	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]: —	

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

$\frac{\text{Case Volume}}{\text{Specified Volumes}} = \text{Calculated Volume}$ (Gals.) X _____ = _____ Gals.	<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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
* NO PRODUCT DETECTED						
* REMOVED 2 SOCKS FROM WELL TOTAL WEIGHT: 0.56 Kg (1.22 lbs)						
* INSTALLED 2 NEW SOCKS IN WELL TOTAL WEIGHT: (0.32 Kg) (0.68 lbs)						

Did well dewater? Yes No	Gallons actually evacuated: _____
Sampling Date: _____	Sampling Time: _____
Sample I.D.: _____	Depth to Water: _____
	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 #: 120724-MM1	Site: 4255 MacArthur Blvd Oakland, CA
Sampler: MM	Date: 7-24-12
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 19.58	Depth to Water (DTW): 10.82
Depth to Free Product: NO SPH DETECTED	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]: 12.57	

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: _____
---	--	--

$5.7 \text{ (Gals.)} \times 3 = 17.1 \text{ Gals.}$ 1 Case Volume Specified Volumes Calculated Volume	<table 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
1157	68.0	6.90	644.3	140	5.7	ODOR
						WELL DEWATERGD AT 6 GAL
1215	55.9	6.83	654.6	43	GRAB	

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Date: 7-24-12 Sampling Time: 1215 Depth to Water: 12.32

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

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 120724-MMI	Site: 4255 MacArthur Blvd Oakland, CA
Sampler: MM	Date: 7-24-12
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 21.88	Depth to Water (DTW): 13.84
Depth to Free Product: 13.83	Thickness of Free Product (feet): 0.01
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.44	

Purge Method: ~~Bailer~~ Disposable Bailer Positive Air Displacement Electric Submersible

Water ~~Peristaltic~~ Extraction Pump Other

Sampling Method: ~~Bailer~~ Disposable Bailer Extraction Port Dedicated Tubing

Other:

$\frac{\text{Gals.}}{\text{Case Volume}} \times \frac{\text{Specified Volumes}}{\text{Specified Volumes}} = \frac{\text{Gals.}}{\text{Calculated Volume}}$	<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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
0.01'						DETECTED OF PRODUCT WITH INTERFACE PROBE
						REMOVED 2 SOCKS FROM WELL TOTAL WEIGHT: 0.43 Kg (1.04 lbs)
						INSTALLED 2 NEW SOCKS IN WELL TOTAL WEIGHT: 0.31 Kg (0.68 lbs)

Did well dewater? ~~Yes~~ No Gallons actually evacuated: _____

Sampling Date: _____ Sampling Time: _____ Depth to Water: _____

Sample I.D.: _____ 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 #: 120724-MM1	Site: 4255 MacArthur Blvd. Oakland, CA
Sampler: MM	Date: 7-24-12
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 30.64	Depth to Water (DTW): 7.19
Depth to Free Product: NO PRODUCT DETECTED	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]: 11.88	

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

_____ (Gals.) X _____ = _____ 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 μS)	Turbidity (NTUs)	Gals. Removed	Observations
• NO PRODUCT DETECTED						
• REMOVED 1 SOCK FROM WELL				TOTAL WEIGHT: 0.16 Kg (0.36 lbs)		
• Installed 1 NEW SOCK IN WELL				TOTAL WEIGHT: 0.15 Kg (0.34 lbs)		

Did well dewater?	Yes	No	Gallons actually evacuated:
Sampling Date:	Sampling Time:	Depth to Water:	
Sample I.D.:	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 #: <u>120724-MM1</u>	Site: <u>4255 MacArthur Blvd Oakland, CA</u>
Sampler: <u>MM</u>	Date: <u>7-24-12</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth (TD): <u>30.64</u>	Depth to Water (DTW): <u>7.19</u>
Depth to Free Product: <u>NO PRODUCT DETECTED</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.88</u>	

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

Other: _____

3.8 (Gals.) X 3 = 11.4 Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>μS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1235</u>	<u>68.5</u>	<u>6.85</u>	<u>1014</u>	<u>311</u>	<u>3.8</u>	
<u>1241</u>	<u>68.0</u>	<u>6.83</u>	<u>966.6</u>	<u>352</u>	<u>7.6</u>	
<u>1246</u>	<u>68.5</u>	<u>6.82</u>	<u>974.2</u>	<u>381</u>	<u>11.4</u>	

Did well dewater? Yes (No) Gallons actually evacuated: 11.5

Sampling Date: 7-24-12 Sampling Time: 1254 Depth to Water: 10.27

Sample I.D.: MW-4 Laboratory: (Test America) Other _____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 120724-MM1	Site: 4255 MacArthur Blvd Oakland, CA
Sampler: MM	Date: 7-24-12
Well I.D.: MW-5	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): 19.85	Depth to Water (DTW): 6.95
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]: 9.13	

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

$$2.1 \text{ (Gals.)} \times 3 = 6.3 \text{ Gals.}$$
 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
0945	63.8	6.58	445.9	999	2.1	
0947	62.9	6.70	422.4	>1000	4.2	
0950	62.7	6.75	421.8	>1000	6.3	

Did well dewater? Yes No Gallons actually evacuated: 6.5

Sampling Date: 7-24-12 Sampling Time: 1000 Depth to Water: 8.97

Sample I.D.: MW-5 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 #: <u>120724-MM1</u>	Site: <u>4255 MacArthur Blvd Oakland, CA</u>
Sampler: <u>MM</u>	Date: <u>7-24-12</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>23.62</u>	Depth to Water (DTW): <u>10.01</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>12.73</u>	

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$\frac{2.2 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 6.6 \text{ Gals.}$ Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>uS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1113</u>	<u>68.5</u>	<u>6.78</u>	<u>1138</u>	<u>>1000</u>	<u>2.2</u>	
<u>1116</u>	<u>67.6</u>	<u>6.73</u>	<u>1153</u>	<u>>1000</u>	<u>4.4</u>	
<u>1119</u>	<u>68.5</u>	<u>6.75</u>	<u>1144</u>	<u>>1000</u>	<u>6.6</u>	

Did well dewater? Yes No Gallons actually evacuated: 6.6

Sampling Date: 7-24-12 Sampling Time: 1123 Depth to Water: 10.95

Sample I.D.: MW-6 Laboratory: Test America Other _____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: <u>120724-MM1</u>	Site: <u>4255 MacArthur Blvd Oakland, CA</u>
Sampler: <u>MM</u>	Date: <u>7-24-12</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>29.00</u>	Depth to Water (DTW): <u>8.30</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>12.44</u>	

Purge Method: <u>Bailer</u> 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: _____
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$\frac{13.5 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 40.5 \text{ Gals.}$ 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
1031	66.6	7.10	702.3	24	13.5	ODOR
1034	66.1	6.95	727.2	12	27	
WELL DEWATERED AT 31 GAL						
1320	67.5	7.35	767.4	19	GRAB	

Did well dewater? Yes No Gallons actually evacuated: 31

Sampling Date: 7-24-12 Sampling Time: 1320 Depth to Water: 22.72 (2 HR+)

Sample I.D.: MW-7 Laboratory: Test America Other _____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 120724-MM1	Site: 4255 MacArthur Blvd Oakland, CA
Sampler: MM	Date: 7-24-12
Well I.D.: MW-8	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 29.75	Depth to Water (DTW): 4.85
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]: 9.83	

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: _____

16.1 (Gals.) X 3 = 48.3 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
1013	66.8	6.88	750.2	68	16.1	
1016	66.8	6.94	740.8	29	32.2	
1019	66.4	6.91	742.7	49	48.3	

Did well dewater? Yes No Gallons actually evacuated: 48.3

Sampling Date: 7-24-12 Sampling Time: 1310 Depth to Water: 7.06

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

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

3B I.D. (if applicable): @ _____ Time Duplicate I.D. (if applicable): _____

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: <u>120724-MM1</u>	Site: <u>4255 MacArthur Blvd Oakland, CA</u>
Sampler: <u>MM</u>	Date: <u>7-24-12</u>
Well I.D.: <u>MW-9</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth (TD): <u>29.62</u>	Depth to Water (DTW): <u>6.95</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.48</u>	

Purge Method: <u>Bailer</u> 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: _____
--	--	--

14.7 (Gals.) X 3 = 44.1 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
<u>1057</u>	<u>69.3</u>	<u>7.04</u>	<u>717.9</u>	<u>12</u>	<u>14.7</u>	<u>ODOR</u>
<u>1059</u>	<u>68.1</u>	<u>6.82</u>	<u>739.2</u>	<u>16</u>	<u>29.4</u>	
	<u>WELL DEWATERED AT 36 GAL</u>					
<u>1338</u>	<u>66.6</u>	<u>7.03</u>	<u>802.9</u>	<u>9</u>	<u>GRAB</u>	

Did well dewater? Yes No Gallons actually evacuated: 36

Sampling Date: 7-24-12 Sampling Time: 1338 Depth to Water: 15.30 (2 HR+)

Sample I.D.: MW-9 Laboratory: Test America Other: _____

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

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

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

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

INCIDENT # 78775128

DATE: 7-24-12

ADDRESS 4255 MacArthur Blvd. @

CITY & STATE Oakland, 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 Property*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad/ Surface Condition								
MW-1	Standpipe	Flush	G	P	9	Y	N	G	R	G	R	NL	G	P	1/2 bolts missing	Y	N				
MW-2	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N				
MW-3	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N				
MW-4	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N				
MW-5	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N				
MW-6	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N				
MW-7	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N				
MW-8	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N				
MW-9	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N				
	Standpipe	Flush	G	P		Y	N	G	R	G	R	NL	G	P		Y	N				
	Standpipe	Flush	G	P		Y	N	G	R	G	R	NL	G	P		Y	N				
TOTAL # CAPS REPLACED =										0	TOTAL # OF LOCKS REPLACED										0
Condition of Soil Boring Patches or Abandoned Monitoring Wells			G	P	N/A	If POOR, Boring Well IDs or Location Description:											Y	N			
Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security		Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted				Photos of Condition		Repair Date and PM Initials		
NA	<input checked="" type="checkbox"/>	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A					Y	N		
Building	<input type="checkbox"/>																				
Building w/ Fence Comp.	<input type="checkbox"/>																				
Fenced Compound	<input type="checkbox"/>																				
Trailer	<input type="checkbox"/>																				
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).

Mark McCulloch Blaine Tech Services
Print or type Name of Field Personnel & Consultant Company

APPENDIX B

TESTAMERICA LABORATORIES, INC. -
ANALYTICAL REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-18564-1

Client Project/Site: 4255 MacArthur Blvd., Oakland, CA

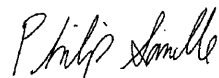
For:

Conestoga-Rovers & Associates, Inc.

19449 Riverside Drive, Suite 230

Sonoma, California 95476

Attn: Peter Schaefer



Authorized for release by:

8/1/2012 1:24:26 PM

Philip Sanelle

Project Manager I

philip.sanelle@testamericainc.com

LINKS

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? Ask
The
Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-18564-1	MW-1	Water	07/24/12 13:30	07/26/12 09:40
440-18564-2	MW-2	Water	07/24/12 12:15	07/26/12 09:40
440-18564-3	MW-3	Water	07/24/12 13:47	07/26/12 09:40
440-18564-4	MW-4	Water	07/24/12 12:54	07/26/12 09:40
440-18564-5	MW-5	Water	07/24/12 10:00	07/26/12 09:40
440-18564-6	MW-6	Water	07/24/12 11:23	07/26/12 09:40
440-18564-7	MW-7	Water	07/24/12 13:20	07/26/12 09:40
440-18564-8	MW-8	Water	07/24/12 13:10	07/26/12 09:40
440-18564-9	MW-9	Water	07/24/12 13:38	07/26/12 09:40

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Job ID: 440-18564-1

Laboratory: TestAmerica Irvine

Narrative

**Job Narrative
440-18564-1**

Comments

No additional comments.

Receipt

The samples were received on 7/26/2012 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 3.3° C.

GC/MS VOA

Method(s) 8260B/CA_LUFTMS: The Gasoline Range Organics (GRO) concentration reported for the following sample(s) is due to the presence of discrete peaks: MW-7 (440-18564-7). Methyl tert-butyl ether

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Client Sample ID: MW-1

Lab Sample ID: 440-18564-1

Date Collected: 07/24/12 13:30

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	390		250		ug/L			07/30/12 20:07	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 120					07/30/12 20:07	5
4-Bromofluorobenzene (Surr)	97		80 - 120					07/30/12 20:07	5
Toluene-d8 (Surr)	103		80 - 120					07/30/12 20:07	5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	14		2.5		ug/L			07/30/12 20:07	5
Toluene	ND		2.5		ug/L			07/30/12 20:07	5
Ethylbenzene	ND		2.5		ug/L			07/30/12 20:07	5
Xylenes, Total	ND		5.0		ug/L			07/30/12 20:07	5
Methyl-t-Butyl Ether (MTBE)	350		2.5		ug/L			07/30/12 20:07	5
tert-Butyl alcohol (TBA)	1100		50		ug/L			07/30/12 20:07	5
Isopropyl Ether (DIPE)	ND		2.5		ug/L			07/30/12 20:07	5
Ethyl-t-butyl ether (ETBE)	ND		2.5		ug/L			07/30/12 20:07	5
Tert-amyl-methyl ether (TAME)	ND		2.5		ug/L			07/30/12 20:07	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120					07/30/12 20:07	5
Dibromofluoromethane (Surr)	104		80 - 120					07/30/12 20:07	5
Toluene-d8 (Surr)	103		80 - 120					07/30/12 20:07	5

Client Sample ID: MW-2

Lab Sample ID: 440-18564-2

Date Collected: 07/24/12 12:15

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	63000		2000		ug/L			07/30/12 21:34	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 120					07/30/12 21:34	40
4-Bromofluorobenzene (Surr)	98		80 - 120					07/30/12 21:34	40
Toluene-d8 (Surr)	104		80 - 120					07/30/12 21:34	40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1400		20		ug/L			07/30/12 21:34	40
Toluene	970		20		ug/L			07/30/12 21:34	40
Ethylbenzene	2600		20		ug/L			07/30/12 21:34	40
Xylenes, Total	7100		40		ug/L			07/30/12 21:34	40
Methyl-t-Butyl Ether (MTBE)	1000		20		ug/L			07/30/12 21:34	40
tert-Butyl alcohol (TBA)	980		400		ug/L			07/30/12 21:34	40
Isopropyl Ether (DIPE)	ND		20		ug/L			07/30/12 21:34	40
Ethyl-t-butyl ether (ETBE)	ND		20		ug/L			07/30/12 21:34	40
Tert-amyl-methyl ether (TAME)	ND		20		ug/L			07/30/12 21:34	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120					07/30/12 21:34	40

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Client Sample ID: MW-2

Lab Sample ID: 440-18564-2

Date Collected: 07/24/12 12:15

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 120		07/30/12 21:34	40
Toluene-d8 (Surr)	104		80 - 120		07/30/12 21:34	40

Client Sample ID: MW-3

Lab Sample ID: 440-18564-3

Date Collected: 07/24/12 13:47

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	22000		1000		ug/L			07/30/12 22:04	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		80 - 120		07/30/12 22:04	20
4-Bromofluorobenzene (Surr)	105		80 - 120		07/30/12 22:04	20
Toluene-d8 (Surr)	108		80 - 120		07/30/12 22:04	20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2100		10		ug/L			07/30/12 22:04	20
Toluene	33		10		ug/L			07/30/12 22:04	20
Ethylbenzene	870		10		ug/L			07/30/12 22:04	20
Xylenes, Total	550		20		ug/L			07/30/12 22:04	20
Methyl-t-Butyl Ether (MTBE)	970		10		ug/L			07/30/12 22:04	20
tert-Butyl alcohol (TBA)	1100		200		ug/L			07/30/12 22:04	20
Isopropyl Ether (DIPE)	ND		10		ug/L			07/30/12 22:04	20
Ethyl-t-butyl ether (ETBE)	ND		10		ug/L			07/30/12 22:04	20
Tert-amyl-methyl ether (TAME)	ND		10		ug/L			07/30/12 22:04	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		07/30/12 22:04	20
Dibromofluoromethane (Surr)	110		80 - 120		07/30/12 22:04	20
Toluene-d8 (Surr)	108		80 - 120		07/30/12 22:04	20

Client Sample ID: MW-4

Lab Sample ID: 440-18564-4

Date Collected: 07/24/12 12:54

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	5400		250		ug/L			07/31/12 12:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		80 - 120		07/31/12 12:26	5
4-Bromofluorobenzene (Surr)	103		80 - 120		07/31/12 12:26	5
Toluene-d8 (Surr)	107		80 - 120		07/31/12 12:26	5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	95		2.5		ug/L			07/31/12 12:26	5
Toluene	33		2.5		ug/L			07/31/12 12:26	5
Ethylbenzene	160		2.5		ug/L			07/31/12 12:26	5

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Client Sample ID: MW-4

Lab Sample ID: 440-18564-4

Date Collected: 07/24/12 12:54

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	410		5.0		ug/L			07/31/12 12:26	5
Methyl-t-Butyl Ether (MTBE)	42		2.5		ug/L			07/31/12 12:26	5
tert-Butyl alcohol (TBA)	67		50		ug/L			07/31/12 12:26	5
Isopropyl Ether (DIPE)	ND		2.5		ug/L			07/31/12 12:26	5
Ethyl-t-butyl ether (ETBE)	ND		2.5		ug/L			07/31/12 12:26	5
Tert-amyl-methyl ether (TAME)	ND		2.5		ug/L			07/31/12 12:26	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120					07/31/12 12:26	5
Dibromofluoromethane (Surr)	108		80 - 120					07/31/12 12:26	5
Toluene-d8 (Surr)	107		80 - 120					07/31/12 12:26	5

Client Sample ID: MW-5

Lab Sample ID: 440-18564-5

Date Collected: 07/24/12 10:00

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			07/30/12 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 - 120					07/30/12 23:02	1
4-Bromofluorobenzene (Surr)	101		80 - 120					07/30/12 23:02	1
Toluene-d8 (Surr)	106		80 - 120					07/30/12 23:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/30/12 23:02	1
Toluene	ND		0.50		ug/L			07/30/12 23:02	1
Ethylbenzene	ND		0.50		ug/L			07/30/12 23:02	1
Xylenes, Total	ND		1.0		ug/L			07/30/12 23:02	1
Methyl-t-Butyl Ether (MTBE)	9.0		0.50		ug/L			07/30/12 23:02	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/30/12 23:02	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/30/12 23:02	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/30/12 23:02	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/30/12 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120					07/30/12 23:02	1
Dibromofluoromethane (Surr)	107		80 - 120					07/30/12 23:02	1
Toluene-d8 (Surr)	106		80 - 120					07/30/12 23:02	1

Client Sample ID: MW-6

Lab Sample ID: 440-18564-6

Date Collected: 07/24/12 11:23

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	3400		500		ug/L			07/30/12 23:31	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		80 - 120					07/30/12 23:31	10

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Client Sample ID: MW-6

Lab Sample ID: 440-18564-6

Date Collected: 07/24/12 11:23

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		07/30/12 23:31	10
Toluene-d8 (Surr)	108		80 - 120		07/30/12 23:31	10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	510		5.0		ug/L			07/30/12 23:31	10
Toluene	8.8		5.0		ug/L			07/30/12 23:31	10
Ethylbenzene	5.8		5.0		ug/L			07/30/12 23:31	10
Xylenes, Total	14		10		ug/L			07/30/12 23:31	10
Methyl-t-Butyl Ether (MTBE)	110		5.0		ug/L			07/30/12 23:31	10
tert-Butyl alcohol (TBA)	5100		100		ug/L			07/30/12 23:31	10
Isopropyl Ether (DIPE)	ND		5.0		ug/L			07/30/12 23:31	10
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			07/30/12 23:31	10
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			07/30/12 23:31	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		07/30/12 23:31	10
Dibromofluoromethane (Surr)	108		80 - 120		07/30/12 23:31	10
Toluene-d8 (Surr)	108		80 - 120		07/30/12 23:31	10

Client Sample ID: MW-7

Lab Sample ID: 440-18564-7

Date Collected: 07/24/12 13:20

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	610		250		ug/L			07/31/12 00:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		80 - 120		07/31/12 00:00	5
4-Bromofluorobenzene (Surr)	104		80 - 120		07/31/12 00:00	5
Toluene-d8 (Surr)	109		80 - 120		07/31/12 00:00	5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	9.2		2.5		ug/L			07/31/12 00:00	5
Toluene	ND		2.5		ug/L			07/31/12 00:00	5
Ethylbenzene	ND		2.5		ug/L			07/31/12 00:00	5
Xylenes, Total	6.6		5.0		ug/L			07/31/12 00:00	5
Methyl-t-Butyl Ether (MTBE)	540		2.5		ug/L			07/31/12 00:00	5
tert-Butyl alcohol (TBA)	600		50		ug/L			07/31/12 00:00	5
Isopropyl Ether (DIPE)	ND		2.5		ug/L			07/31/12 00:00	5
Ethyl-t-butyl ether (ETBE)	ND		2.5		ug/L			07/31/12 00:00	5
Tert-amyl-methyl ether (TAME)	ND		2.5		ug/L			07/31/12 00:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		07/31/12 00:00	5
Dibromofluoromethane (Surr)	109		80 - 120		07/31/12 00:00	5
Toluene-d8 (Surr)	109		80 - 120		07/31/12 00:00	5

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Client Sample ID: MW-8

Lab Sample ID: 440-18564-8

Date Collected: 07/24/12 13:10

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	350		250		ug/L			07/31/12 00:29	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		80 - 120					07/31/12 00:29	5
4-Bromofluorobenzene (Surr)	102		80 - 120					07/31/12 00:29	5
Toluene-d8 (Surr)	109		80 - 120					07/31/12 00:29	5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.5		ug/L			07/31/12 00:29	5
Toluene	ND		2.5		ug/L			07/31/12 00:29	5
Ethylbenzene	ND		2.5		ug/L			07/31/12 00:29	5
Xylenes, Total	ND		5.0		ug/L			07/31/12 00:29	5
Methyl-t-Butyl Ether (MTBE)	330		2.5		ug/L			07/31/12 00:29	5
tert-Butyl alcohol (TBA)	ND		50		ug/L			07/31/12 00:29	5
Isopropyl Ether (DIPE)	ND		2.5		ug/L			07/31/12 00:29	5
Ethyl-t-butyl ether (ETBE)	ND		2.5		ug/L			07/31/12 00:29	5
Tert-amyl-methyl ether (TAME)	ND		2.5		ug/L			07/31/12 00:29	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120					07/31/12 00:29	5
Dibromofluoromethane (Surr)	109		80 - 120					07/31/12 00:29	5
Toluene-d8 (Surr)	109		80 - 120					07/31/12 00:29	5

Client Sample ID: MW-9

Lab Sample ID: 440-18564-9

Date Collected: 07/24/12 13:38

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	970		500		ug/L			07/31/12 00:58	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		80 - 120					07/31/12 00:58	10
4-Bromofluorobenzene (Surr)	107		80 - 120					07/31/12 00:58	10
Toluene-d8 (Surr)	111		80 - 120					07/31/12 00:58	10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	91		5.0		ug/L			07/31/12 00:58	10
Toluene	ND		5.0		ug/L			07/31/12 00:58	10
Ethylbenzene	15		5.0		ug/L			07/31/12 00:58	10
Xylenes, Total	ND		10		ug/L			07/31/12 00:58	10
Methyl-t-Butyl Ether (MTBE)	660		5.0		ug/L			07/31/12 00:58	10
tert-Butyl alcohol (TBA)	530		100		ug/L			07/31/12 00:58	10
Isopropyl Ether (DIPE)	ND		5.0		ug/L			07/31/12 00:58	10
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			07/31/12 00:58	10
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			07/31/12 00:58	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120					07/31/12 00:58	10

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Client Sample ID: MW-9

Lab Sample ID: 440-18564-9

Date Collected: 07/24/12 13:38

Matrix: Water

Date Received: 07/26/12 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Dibromofluoromethane (Surr)</i>	112		80 - 120		07/31/12 00:58	10
<i>Toluene-d8 (Surr)</i>	111		80 - 120		07/31/12 00:58	10

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Client Sample ID: MW-1

Lab Sample ID: 440-18564-1

Date Collected: 07/24/12 13:30

Matrix: Water

Date Received: 07/26/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	41842	07/30/12 20:07	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		5	10 mL	10 mL	41852	07/30/12 20:07	SS	TAL IRV

Client Sample ID: MW-2

Lab Sample ID: 440-18564-2

Date Collected: 07/24/12 12:15

Matrix: Water

Date Received: 07/26/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	10 mL	10 mL	41842	07/30/12 21:34	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		40	10 mL	10 mL	41852	07/30/12 21:34	SS	TAL IRV

Client Sample ID: MW-3

Lab Sample ID: 440-18564-3

Date Collected: 07/24/12 13:47

Matrix: Water

Date Received: 07/26/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	10 mL	10 mL	41842	07/30/12 22:04	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		20	10 mL	10 mL	41852	07/30/12 22:04	SS	TAL IRV

Client Sample ID: MW-4

Lab Sample ID: 440-18564-4

Date Collected: 07/24/12 12:54

Matrix: Water

Date Received: 07/26/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	41920	07/31/12 12:26	AT	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		5	10 mL	10 mL	41921	07/31/12 12:26	AT	TAL IRV

Client Sample ID: MW-5

Lab Sample ID: 440-18564-5

Date Collected: 07/24/12 10:00

Matrix: Water

Date Received: 07/26/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	41842	07/30/12 23:02	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	41852	07/30/12 23:02	SS	TAL IRV

Client Sample ID: MW-6

Lab Sample ID: 440-18564-6

Date Collected: 07/24/12 11:23

Matrix: Water

Date Received: 07/26/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	41842	07/30/12 23:31	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		10	10 mL	10 mL	41852	07/30/12 23:31	SS	TAL IRV

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Client Sample ID: MW-7

Lab Sample ID: 440-18564-7

Date Collected: 07/24/12 13:20

Matrix: Water

Date Received: 07/26/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	41842	07/31/12 00:00	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		5	10 mL	10 mL	41852	07/31/12 00:00	SS	TAL IRV

Client Sample ID: MW-8

Lab Sample ID: 440-18564-8

Date Collected: 07/24/12 13:10

Matrix: Water

Date Received: 07/26/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	41842	07/31/12 00:29	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		5	10 mL	10 mL	41852	07/31/12 00:29	SS	TAL IRV

Client Sample ID: MW-9

Lab Sample ID: 440-18564-9

Date Collected: 07/24/12 13:38

Matrix: Water

Date Received: 07/26/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	41842	07/31/12 00:58	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		10	10 mL	10 mL	41852	07/31/12 00:58	SS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-41842/4

Matrix: Water

Analysis Batch: 41842

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.50		ug/L			07/30/12 18:40	1
Toluene	ND		0.50		ug/L			07/30/12 18:40	1
Ethylbenzene	ND		0.50		ug/L			07/30/12 18:40	1
Xylenes, Total	ND		1.0		ug/L			07/30/12 18:40	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			07/30/12 18:40	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/30/12 18:40	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/30/12 18:40	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/30/12 18:40	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/30/12 18:40	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	99		80 - 120		07/30/12 18:40	1
Dibromofluoromethane (Surr)	105		80 - 120		07/30/12 18:40	1
Toluene-d8 (Surr)	107		80 - 120		07/30/12 18:40	1

Lab Sample ID: LCS 440-41842/5

Matrix: Water

Analysis Batch: 41842

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	26.9		ug/L		107	70 - 120
Ethylbenzene	25.0	27.8		ug/L		111	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	25.1		ug/L		100	60 - 135
tert-Butyl alcohol (TBA)	125	138		ug/L		110	70 - 135
Isopropyl Ether (DIPE)	25.0	26.4		ug/L		106	60 - 135
Ethyl-t-butyl ether (ETBE)	25.0	24.4		ug/L		98	65 - 135
Tert-amyl-methyl ether (TAME)	25.0	24.4		ug/L		98	60 - 135
m,p-Xylene	50.0	55.4		ug/L		111	75 - 125
o-Xylene	25.0	26.7		ug/L		107	75 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: 440-18564-1 MS

Matrix: Water

Analysis Batch: 41842

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	ND		125	136		ug/L		108	70 - 125
Ethylbenzene	ND		125	134		ug/L		107	65 - 130
Methyl-t-Butyl Ether (MTBE)	350		125	483		ug/L		111	55 - 145
tert-Butyl alcohol (TBA)	1100		625	1880		ug/L		117	65 - 140
Isopropyl Ether (DIPE)	ND		125	144		ug/L		116	60 - 140
Ethyl-t-butyl ether (ETBE)	ND		125	134		ug/L		108	60 - 135
Tert-amyl-methyl ether (TAME)	ND		125	136		ug/L		109	60 - 140

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-18564-1 MS

Matrix: Water

Analysis Batch: 41842

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	ND		250	268		ug/L		107	65 - 130
o-Xylene	ND		125	131		ug/L		105	65 - 125
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		80 - 120						
Dibromofluoromethane (Surr)	107		80 - 120						
Toluene-d8 (Surr)	106		80 - 120						

Lab Sample ID: 440-18564-1 MSD

Matrix: Water

Analysis Batch: 41842

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	14		125	151		ug/L		109	65 - 125	1	20
Toluene	ND		125	136		ug/L		109	70 - 125	0	20
Ethylbenzene	ND		125	137		ug/L		110	65 - 130	2	20
Methyl-t-Butyl Ether (MTBE)	350		125	511		ug/L		133	55 - 145	6	25
tert-Butyl alcohol (TBA)	1100		625	1880		ug/L		116	65 - 140	0	25
Isopropyl Ether (DIPE)	ND		125	147		ug/L		118	60 - 140	2	25
Ethyl-t-butyl ether (ETBE)	ND		125	137		ug/L		110	60 - 135	2	25
Tert-amyl-methyl ether (TAME)	ND		125	138		ug/L		111	60 - 140	2	30
m,p-Xylene	ND		250	271		ug/L		109	65 - 130	1	25
o-Xylene	ND		125	134		ug/L		107	65 - 125	2	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		80 - 120								
Dibromofluoromethane (Surr)	110		80 - 120								
Toluene-d8 (Surr)	107		80 - 120								

Lab Sample ID: MB 440-41920/4

Matrix: Water

Analysis Batch: 41920

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/31/12 09:33	1
Toluene	ND		0.50		ug/L			07/31/12 09:33	1
Ethylbenzene	ND		0.50		ug/L			07/31/12 09:33	1
Xylenes, Total	ND		1.0		ug/L			07/31/12 09:33	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			07/31/12 09:33	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/12 09:33	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/31/12 09:33	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/31/12 09:33	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/31/12 09:33	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	94		80 - 120		07/31/12 09:33	1			
Dibromofluoromethane (Surr)	97		80 - 120		07/31/12 09:33	1			
Toluene-d8 (Surr)	102		80 - 120		07/31/12 09:33	1			

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-41920/5
 Matrix: Water
 Analysis Batch: 41920

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.1		ug/L		105	70 - 120
Toluene	25.0	25.6		ug/L		102	70 - 120
Ethylbenzene	25.0	26.0		ug/L		104	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	25.8		ug/L		103	60 - 135
tert-Butyl alcohol (TBA)	125	131		ug/L		105	70 - 135
Isopropyl Ether (DIPE)	25.0	26.6		ug/L		106	60 - 135
Ethyl-t-butyl ether (ETBE)	25.0	24.7		ug/L		99	65 - 135
Tert-amyl-methyl ether (TAME)	25.0	25.8		ug/L		103	60 - 135
m,p-Xylene	50.0	51.9		ug/L		104	75 - 125
o-Xylene	25.0	25.3		ug/L		101	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: 440-18562-B-7 MS
 Matrix: Water
 Analysis Batch: 41920

Client Sample ID: Matrix Spike
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	27.2		ug/L		109	65 - 125
Toluene	ND		25.0	27.0		ug/L		108	70 - 125
Ethylbenzene	ND		25.0	27.4		ug/L		110	65 - 130
Methyl-t-Butyl Ether (MTBE)	29		25.0	54.8		ug/L		103	55 - 145
tert-Butyl alcohol (TBA)	490		125	630		ug/L		109	65 - 140
Isopropyl Ether (DIPE)	ND		25.0	27.8		ug/L		111	60 - 140
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.2		ug/L		105	60 - 135
Tert-amyl-methyl ether (TAME)	ND		25.0	26.6		ug/L		106	60 - 140
m,p-Xylene	ND		50.0	54.1		ug/L		108	65 - 130
o-Xylene	ND		25.0	25.9		ug/L		104	65 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: 440-18562-B-7 MSD
 Matrix: Water
 Analysis Batch: 41920

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		25.0	27.6		ug/L		110	65 - 125	2	20
Toluene	ND		25.0	27.1		ug/L		109	70 - 125	0	20
Ethylbenzene	ND		25.0	27.3		ug/L		109	65 - 130	1	20
Methyl-t-Butyl Ether (MTBE)	29		25.0	55.5		ug/L		106	55 - 145	1	25
tert-Butyl alcohol (TBA)	490		125	620		ug/L		101	65 - 140	2	25
Isopropyl Ether (DIPE)	ND		25.0	28.8		ug/L		115	60 - 140	3	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	27.3		ug/L		109	60 - 135	4	25

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-18562-B-7 MSD

Matrix: Water

Analysis Batch: 41920

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl-methyl ether (TAME)	ND		25.0	27.9		ug/L		112	60 - 140	5	30
m,p-Xylene	ND		50.0	54.3		ug/L		109	65 - 130	0	25
o-Xylene	ND		25.0	26.6		ug/L		106	65 - 125	3	20
Surrogate	%Recovery	MSD Qualifier	MSD	Limits							
4-Bromofluorobenzene (Surr)	101			80 - 120							
Dibromofluoromethane (Surr)	105			80 - 120							
Toluene-d8 (Surr)	104			80 - 120							

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-41852/4

Matrix: Water

Analysis Batch: 41852

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			07/30/12 18:40	1
Surrogate	%Recovery	MB Qualifier	MB	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105			80 - 120				07/30/12 18:40	1
4-Bromofluorobenzene (Surr)	99			80 - 120				07/30/12 18:40	1
Toluene-d8 (Surr)	107			80 - 120				07/30/12 18:40	1

Lab Sample ID: LCS 440-41852/6

Matrix: Water

Analysis Batch: 41852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	475		ug/L		95	55 - 130
Surrogate	%Recovery	LCS Qualifier	LCS	Limits			
Dibromofluoromethane (Surr)	105			80 - 120			
4-Bromofluorobenzene (Surr)	103			80 - 120			
Toluene-d8 (Surr)	107			80 - 120			

Lab Sample ID: 440-18564-1 MS

Matrix: Water

Analysis Batch: 41852

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	390		8630	8470		ug/L		94	50 - 145
Surrogate	%Recovery	MS Qualifier	MS	Limits					
Dibromofluoromethane (Surr)	107			80 - 120					
4-Bromofluorobenzene (Surr)	103			80 - 120					
Toluene-d8 (Surr)	106			80 - 120					

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-18564-1 MSD

Client Sample ID: MW-1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 41852

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	390		8630	8490		ug/L		94	50 - 145	0	20
Surrogate	%Recovery	MSD Qualifier	Limits								
Dibromofluoromethane (Surr)	110		80 - 120								
4-Bromofluorobenzene (Surr)	103		80 - 120								
Toluene-d8 (Surr)	107		80 - 120								

Lab Sample ID: MB 440-41921/4

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 41921

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			07/31/12 09:33	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 120					07/31/12 09:33	1
4-Bromofluorobenzene (Surr)	94		80 - 120					07/31/12 09:33	1
Toluene-d8 (Surr)	102		80 - 120					07/31/12 09:33	1

Lab Sample ID: LCS 440-41921/6

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 41921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	467		ug/L		93	55 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	102		80 - 120				
4-Bromofluorobenzene (Surr)	99		80 - 120				
Toluene-d8 (Surr)	104		80 - 120				

Lab Sample ID: 440-18562-B-7 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 41921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	56		1730	1630		ug/L		91	50 - 145
Surrogate	%Recovery	MS Qualifier	Limits						
Dibromofluoromethane (Surr)	104		80 - 120						
4-Bromofluorobenzene (Surr)	100		80 - 120						
Toluene-d8 (Surr)	104		80 - 120						

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-18562-B-7 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 41921

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	56		1730	1680		ug/L		94	50 - 145	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Toluene-d8 (Surr)	104		80 - 120

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

GC/MS VOA

Analysis Batch: 41842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-18564-1	MW-1	Total/NA	Water	8260B	
440-18564-1 MS	MW-1	Total/NA	Water	8260B	
440-18564-1 MSD	MW-1	Total/NA	Water	8260B	
440-18564-2	MW-2	Total/NA	Water	8260B	
440-18564-3	MW-3	Total/NA	Water	8260B	
440-18564-5	MW-5	Total/NA	Water	8260B	
440-18564-6	MW-6	Total/NA	Water	8260B	
440-18564-7	MW-7	Total/NA	Water	8260B	
440-18564-8	MW-8	Total/NA	Water	8260B	
440-18564-9	MW-9	Total/NA	Water	8260B	
LCS 440-41842/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-41842/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 41852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-18564-1	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
440-18564-1 MS	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
440-18564-1 MSD	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
440-18564-2	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
440-18564-3	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
440-18564-5	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
440-18564-6	MW-6	Total/NA	Water	8260B/CA_LUFT MS	
440-18564-7	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
440-18564-8	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
440-18564-9	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-41852/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-41852/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 41920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-18562-B-7 MS	Matrix Spike	Total/NA	Water	8260B	
440-18562-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-18564-4	MW-4	Total/NA	Water	8260B	
LCS 440-41920/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-41920/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 41921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-18562-B-7 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-18562-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
440-18564-4	MW-4	Total/NA	Water	8260B/CA_LUFT MS	

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

GC/MS VOA (Continued)

Analysis Batch: 41921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-41921/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-41921/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

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)

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 4255 MacArthur Blvd., Oakland, CA

TestAmerica Job ID: 440-18564-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-12
USDA	Federal		P330-09-00080	06-06-14

LAB (LOCATION)

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



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

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

Print Bill To Contact Name: 240524 Peter Schaefer

INCIDENT # (ENV SERV/CES): 9 8 9 9 5 7 5 8

PO # _____ SAP # _____

DATE: 7-24-12
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) 885-4455 x 108 FAX: (310) 637-5802 E-MAIL: lking@blainetech.com

SITE ADDRESS: Street and City: 4255 MacArthur Blvd., Oakland CA

GLOBAL ID NO.: T0600101261

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

PHONE NO.: 510-420-3343

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

CONSULTANT PROJECT NO.: 240524-95-12.01

SAMPLER NAME(S) (Print): Mark McColloch

LAB USE ONLY: 410-18704

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:

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

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

TPH-ORO, Purgeable (8260B)	TPH-DRO, Extractable (8016M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 6 OXYS (MTBE, TBA, DIPE, TAME, ETBE) (8260B)	VOCs Full list (8260B)	Single Compound: (8260B)	1,2 DCA (8260B)	EDS (8260B)	Ethanol (8260B)	Methanol (8016B)	TEMPERATURE ON RECEIPT, °C
												330/2-10

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

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

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

SAMPLE ID	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	PRESERVATIVE					NO. OF CONT.	TPH-ORO, Purgeable (8260B)	TPH-DRO, Extractable (8016M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 6 OXYS (MTBE, TBA, DIPE, TAME, ETBE) (8260B)	VOCs Full list (8260B)	Single Compound: (8260B)	1,2 DCA (8260B)	EDS (8260B)	Ethanol (8260B)	Methanol (8016B)	TEMPERATURE ON RECEIPT, °C			
							HCL	HNO3	H2SO4	NONE	OTHER																	
WG	120724-MM1	072412	MM	MW-1	1330	WG	X					3	X															
				MW-2	1215		X					3	X															
				MW-3	1347		X					3	X															
				MW-4	1254		X					3	X															
				MW-5	1000		X					3	X															
				MW-6	1123		X					3	X															
				MW-7	1320		X					3	X															
				MW-8	1310		X					3	X															
				MW-9	1338		X					3	X															

Retrieved by (Signature): <i>Mark McColloch</i>	Received by (Signature): <i>Mark McColloch</i> Sample Custodian	Date: 7-24-12	Time: 1600
Retrieved by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 7/25/12	Time: 1145
Retrieved by (Signature): <i>[Signature]</i> 7-25-12 16:00	Received by (Signature): <i>[Signature]</i>	Date: 7-26-12 0940	Time: 0940

8/1/2012

3.3 21

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-18564-1

Login Number: 18564

List Source: TestAmerica Irvine

List Number: 1

Creator: Perez, Angel

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Mark McColloch
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

APPENDIX C

AECOM -

DATA TABLES FOR 76 SERVICE STATION NO. 1156

Table 1
Current Groundwater Monitoring Data and Analytical Results
76 Service Station #35-1645
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL THICKNESS (ft)	GWE* (ft)	TOTAL OIL AND GREASE (µg/L)	TPH-d (8015) (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-1B	7/24/2012	174.06	6.98	0	167.08	ND<5,000	ND<40	130	6.2	ND<0.30	ND<0.30	ND<0.60	
MW-2B	7/24/2012	173.55	5.33	0	168.22	--	ND<40	73	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-3B	7/24/2012	177.77	6.42	0	171.35	--	190	1,500	66	10	76	39	
MW-4B	7/24/2012	179.07	6.20	0	172.87	--	ND<40	75	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-5	7/24/2012	169.18	1.90	0	167.28	--	ND<40	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-7	7/24/2012	172.11	7.25	0	164.86	--	ND<40	270	ND<0.30	ND<0.30	ND<0.30	ND<0.60	

NOTES:

* TOC and GWE are in feet above mean sea level.

ND<# = Analyte not detected below indicated practical quantitation limit

TOC = Top of casing

ft = Feet

DTW = Depth to water

GWE = Ground water elevation

µg/L = Micrograms per liter

-- = Not available/not sampled

LNAPL = Light non-aqueous phase liquid

TPH-d = Total petroleum hydrocarbons as diesel

TPH-g = Total petroleum hydrocarbons as gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

Table 2
Current Groundwater Analytical Results - Oxygenate Compounds
76 Service Station #35-1645
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-1B	7/24/2012	46	27	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2B	7/24/2012	53	270	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-3B	7/24/2012	54	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-4B	7/24/2012	24	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-5	7/24/2012	81	20	ND<250	ND<0.50	1.4	ND<0.50	ND<0.50	ND<0.50
MW-7	7/24/2012	300	160	ND<250	ND<0.50	1.5	ND<0.50	ND<0.50	ND<0.50

NOTES:

Oxygenate compounds analyzed by U.S. Environmental Protection Agency Method 8260B

ND<# = Analyte not detected below indicated practical quantitation limit

-- = Not sampled

µg/L = Micrograms per liter

J = Estimated value

MTBE = Methyl tertiary butyl ether

TBA = Tertiary butyl alcohol

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether