



**CONESTOGA-ROVERS
& ASSOCIATES**

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

TRANSMITTAL

DATE: October 13, 2011 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 2011

As Requested For Review and Comment
 For Your Use

COMMENTS:

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

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Roland C. Malone, Jr., PO Box 2744, Castro Valley, CA 94546
Kenneth Williams, MacArthur/High Trailer Park, c/o Bookkeeping, 332 Peyton Drive,
Hayward, CA 94544
Terry L. Grayson, ConocoPhillips Risk Management & Remediation, 76 Broadway,
Sacramento, CA 95818

Completed by: Peter Schaefer Signed: *Peter Schaf*

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 L. Brown", is written over a horizontal line.

Denis L. Brown
Senior Program Manager



**GROUNDWATER MONITORING AND
REMEDICATION REPORT -
THIRD QUARTER 2011**

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

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

**OCTOBER 13, 2011
REF. NO. 240524 (14)**
This report is printed on recycled paper.

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

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web:<http://www.CRAworld.com>

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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 September 12, 2011.

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.

As requested in Alameda County Environmental Health's (ACEH's) May 23, 2011 letter, CRA submitted a subsurface investigation work plan on August 5, 2011. ACEH's September 12, 2011 letter conditionally approved the work plan. The proposed work is

tentatively scheduled to be completed in November 2011, and CRA will provide a report summarizing the results from the subsurface investigation to ACEH by January 13, 2012.

On August 27, 2011, CRA collected soil vapor samples from the probes. CRA will provide a report summarizing the results from the soil vapor sampling to ACEH by January 13, 2012.

On April 26, 2011, Blaine installed an separate-phase hydrocarbon (SPH) absorbent sock in well MW-4 and replaced the SPH-absorbent socks in MW-2 and MW-3. On July 25, 2011, Blaine replaced the SPH-absorbent socks in MW-2, MW-3, and MW-4. No SPHs were measured in any site wells during the April 26 or July 25, 2011 monitoring events. Approximately 0.91 pounds of SPHs were recovered during the second and third quarters of 2011. A summary of historical SPH removal is provided below.

SPH REMOVAL SUMMARY	
<i>This Period (pounds)</i>	<i>Cumulative Removal (pounds)</i>
0.91	28.53

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Westerly to southwesterly
Hydraulic Gradient	Averages 0.05
Depth to Water	4.56 to 13.53 feet below top of well casing

2.3 PROPOSED ACTIVITIES

As stated above, CRA is tentatively scheduled to implement our August 5, 2011 work plan in November 2011. We will provide ACEH with reports detailing results from our subsurface investigation and from our August 27, 2011 soil vapor sampling event by January 13, 2012.

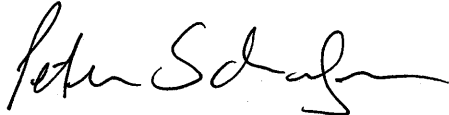
Blaine will gauge and sample wells according to the established monitoring program for this site. This site is monitored semiannually during the first and third quarters, and CRA will issue groundwater monitoring reports semiannually following the sampling events.

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 for three consecutive quarters.

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.

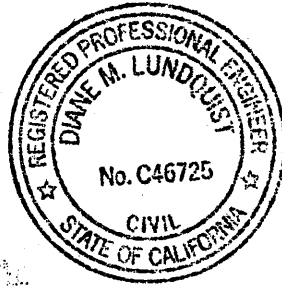
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



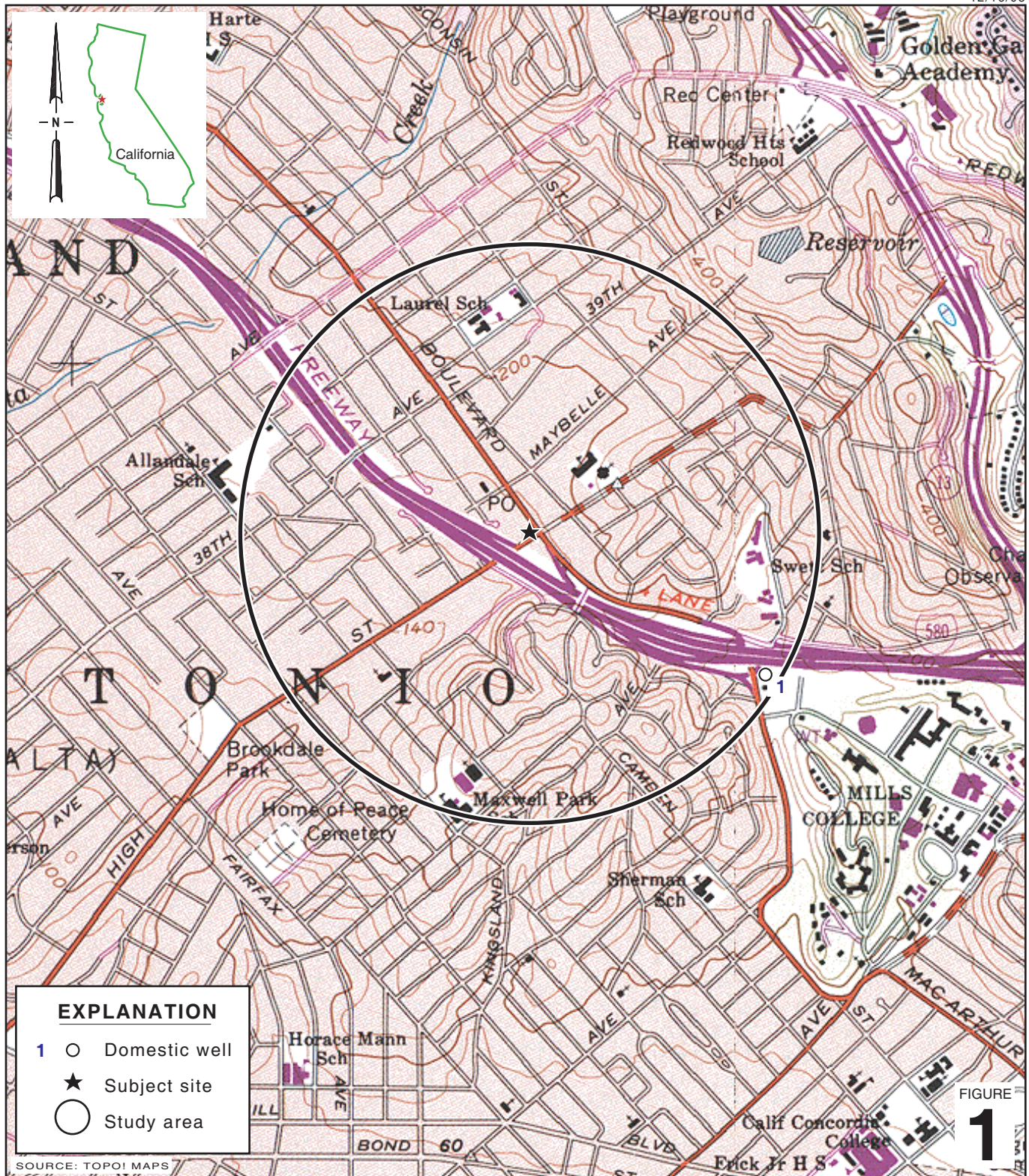
Peter Schaefer, CEG, CHG



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 (Tosco)
- TB-1 ⊗ Destroyed well location
- 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 (msl)

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

Notes:
 NA = Not available; well inaccessible
 ND = Not detected
 NDa = Elevated reporting limit, see laboratory report for details
 NS = Not sampled

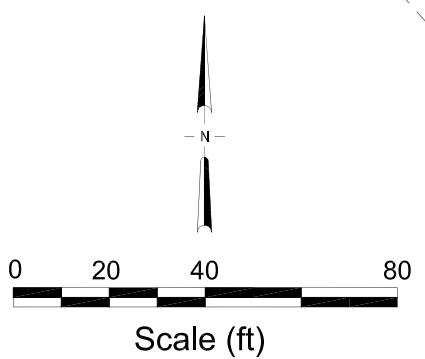
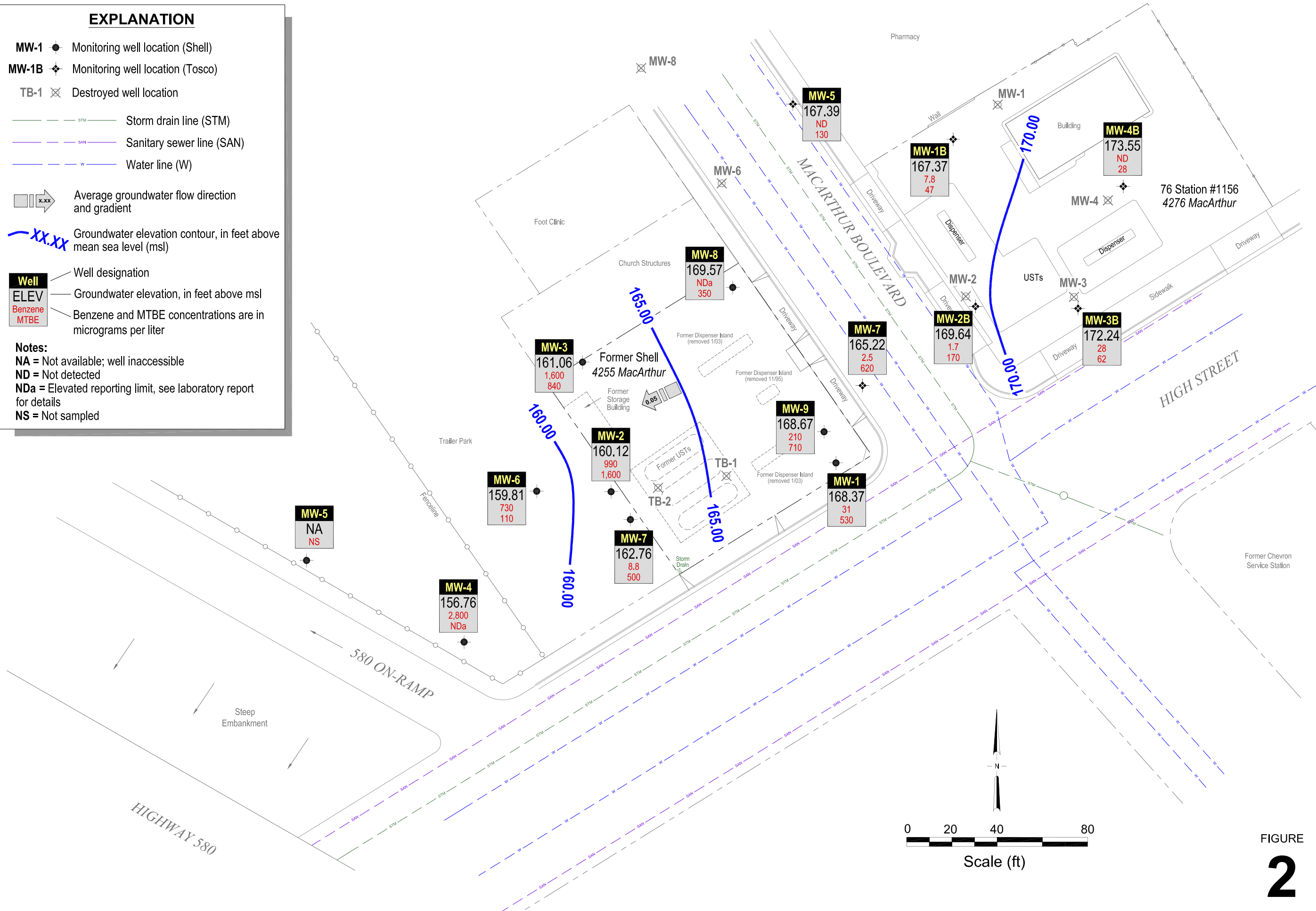


FIGURE
2

I:\Shell\6-chars\2405--\240524-Oakland 4255 MacArthur\240524-REPORTS\240524-RPT14-3Q\11240524 3QM11-GW.DWG

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
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

**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	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-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	--	--	--

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	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	158.81	0.48	--	--
MW-2	10/01/1996	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170.91	14.21	156.70	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
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

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	01/06/2003	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																			
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																			
MW-2	01/22/2008	Unable to access																			
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																			
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	—	—

**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	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-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	160.07	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	—	—	—
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	—	—	—

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	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	—	—
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

**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	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	--	--
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	--	--	--

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	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-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	0.8	8.8	3	—	—	—	—	—	—	—	—	—	164.06	7.36	156.70	—	—	—
MW-4	10/18/1995	150	31	<0.5	3.5	0.8	—	—	—	—	—	—	—	—	—	164.06	8.54	155.52	—	—	—
MW-4	01/17/1996	290	14	<0.5	1.8	0.8	—	—	—	—	—	—	—	—	—	164.06	8.48	155.58	—	—	—
MW-4	04/25/1996	<500	65	<5	<5	<5	1,700	—	—	—	—	—	—	—	—	164.06	7.40	156.66	—	—	—
MW-4 (D)	04/25/1996	<500	66	<5	8.7	<5	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	26	55	1,500	8	—	—	—	—	—	—	—	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	—	—	—
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

**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	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	—	—	—
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	157.55	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-5	01/04/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.62	—	—	—	—

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	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
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-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	—	—	—

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	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	—	—	—
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-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-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	—	—	—

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	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	—	—	—
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-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	—	—	—
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

**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	04/17/2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.65	--	--	0.5	-152
TB-1	07/26/2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.13	--	--	1.0	-124
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 EPA Method 8260B

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

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

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

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

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

1,2-DCA = 1,2-dichloroethane 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		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2- DCA		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)
							8020 (µg/L)	8260 (µg/L)						µg/L	µg/L							

Ethanol analyzed by EPA Method 8260B.

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 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 # 110426-IW1 Date 4/26/11 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-2	0855	4	ODOR	INTERFACE PROBE USED, NO SPH DETECTED.			9.98	19.56	↓	SPH SOCK
MW-3	0836	4	ODOR	INTERFACE PROBE USED, NO SPH DETECTED.			12.56	21.83		SPH SOCK
MW-4	0926	2		INTERFACE PROBE USED, NO SPH DETECTED.			8.73	30.52		SPH SOCK DEPLOYED

SHELL WELL MONITORING DATA SHEET

BTS #: 110426-IW1	Site: 4255 MACARTHUR BLVD, OAKLAND, CA
Sampler: IW	Date: 4/26/11
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 19.50	Depth to Water (DTW): 9.98
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~~

$$\frac{\text{Case Volume (Gals.)}}{\text{Specified Volumes}} \times \text{Specified Volumes} = \text{Calculated Volume (Gals.)}$$

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: 0.536 Kg (1.19 lbs)						
• INSTALLED 2 NEW SOCKS IN WELL. TOTAL WEIGHT: 0.291 Kg (0.64 lbs)						

Did well dewater? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 #: 110A26-IW1	Site: 4255 MACARTHUR BLVD., OAKLAND, CA
Sampler: IW	Date: 4/26/11
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 21.83	Depth to Water (DTW): 12.56
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: ---
--	---	--

--- (Gals.) X	=	--- 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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
• NO PRODUCT DETECTED.						
• REMOVED 2 SOCKS FROM WELL. TOTAL WEIGHT: 0.509 Kg (1.12 lbs)						
• INSTALLED 2 NEW SOCKS IN WELL. TOTAL WEIGHT: 0.300 Kg (0.66 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 #: 110426 -IW1	Site: 4255 MACARTHUR BLVD. OAKLAND, CA
Sampler: IW	Date: 4/26/11
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 30.52	Depth to Water (DTW): 8.73
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: _____

$\frac{\text{Gals.}}{\text{Case Volume}} \times \text{Specified Volumes} = \text{Calculated Volume Gals.}$

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.						
• INSTALLED 1 NEW SOCK IN WELL. TOTAL WEIGHT:						0.141 kg (0.31 lbs)

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	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: — mg/L	Post-purge: — mg/L
O.R.P. (if req'd): Pre-purge: — mV	Post-purge: — mV

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 4255 MACARTHUR BLVD., OAKLAND, CA Date 4/26/11

Job Number 110420-IW1 Technician IAN WILLIAMS Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements <small>*See Below</small>	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MW-2	X	X							
MW-3	X	X							
MW-4	X	X		X					

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12" or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12" or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes: _____

WELL GAUGING DATA

Project # 110725-44 Date 7/25/11 Client SHELL

Site 4255 MARATHON BLVD., OAKLAND

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	1000	4					7.39	23.38		
MW-2	1035	4	NO	SPH DETECTED			10.76	19.81		ABS SOCKS
MW-3	1022	4	NO	SPH DETECTED			13.53	21.94		ABS SOCKS
MW-4	1045	2	NO	SPH DETECTED			7.27	30.61		ABS SOCKS
MW-5		—	UNABLE TO LOCATE				—	—		**
MW-6	1016	2					10.08	23.38		
MW-7	1250	4					8.11	29.00		*
MW-8	0950	4					4.56	29.94		
MW-9	1009	4					6.53	29.66	↓	
	*	WELL COVERED BY CAR; CAN NOT GET TO UNTIL 12PM								
	**	UNABLE TO LOCATE WELL IN THICK VEGETATION								

SHELL WELL MONITORING DATA SHEET

BTS #: 110725-CK1	Site: 4255 MACARTHUR BLVD.
Sampler: C. KILPATRICK	Date: 7/25/11
Well I.D.: mw-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 23.38	Depth to Water (DTW): 7.39
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]: 10.59	

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: _____
---	--	--

$10.4 \text{ (Gals.)} \times 3 = 31.2 \text{ Gals.}$ 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1138	68.4	7.29	1000	19	10.4	
1139	well	DEWATERED @		12 gal.	12.0	DTW = 18.78
1410	69.0	7.20	1006	18	6.243	

Did well dewater? Yes No Gallons actually evacuated: 12

Sampling Date: 7/25/11 Sampling Time: 1410 Depth to Water: 12.69 (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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 110725-CK1	Site: 4255 MACARTHUR BLVD.
Sampler: C. KINATRICK	Date: 7/25/11
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 19.81	Depth to Water (DTW): 10.76
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]:	

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: _____
--	--	---

_____ (Gals.) X _____ 1 Case Volume Specified Volumes	=	_____ Gals. Calculated Volume
---	---	----------------------------------

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

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
						• NO PRODUCT DETECTED.
						• REMOVED 2 SOCKS FROM WELL. TOTAL WEIGHT: 0.46 Kg
						• INSTALLED 2 NEW SOCKS IN WELL. TOTAL WEIGHT: 0.30 Kg

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: _____
Sampling Date: _____	Sampling Time: _____
Sample I.D.: MW-	Laboratory: <u>Test America</u> Other: _____
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: <u>SEE COC</u>	
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 #: 110725-CK1	Site: 4255 MACARTHUR BLVD.
Sampler: C. KIMATRICH <i>[Signature]</i>	Date: 7/25/11
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8 _____
Total Well Depth (TD): 19.81	Depth to Water (DTW): 10.76
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.60	

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: _____

$5.9 \text{ (Gals.)} \times 3 = 17.7 \text{ Gals.}$	<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														
I Case Volume Specified Volumes Calculated Volume																	

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1333	70.1	7.19	738	130	5.9	ODOT
1334	WELL	DEWATERED @		7 gal	7.0	DTW = 15.99
1510	70.6	7.03	743	110	GRAB	

Did well dewater? Yes No Gallons actually evacuated: 7.0

Sampling Date: 7/25/11 Sampling Time: 1510 Depth to Water: 11.50

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

SHELL WELL MONITORING DATA SHEET

BTS #: 110725-CK1	Site: 4255 MARARTHUR BLVD.
Sampler: C. KILPATRICK <i>(Signature)</i>	Date: 7/25/11
Well I.D.: mw-3	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 21.94	Depth to Water (DTW): 13.53
Depth to Free Product: —	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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: _____

(Gals.) X <u>3</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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
No SPH detected						
SPH sock weighed			(used) (2) : 0.74 lbs (0.36 kg)			
SPH sock weighed			(2 new socks) : 0.64 lbs (0.29 kg)			
			(replaced)			
* used sock brown 3" saturation						

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: mw- 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 #: 110725-CK1	Site: 4255 MAEARTHUR BLVD.
Sampler: C. KILPATRICK <u>MW</u>	Date: 7/25/11
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 21.94	Depth to Water (DTW): 13.53
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.21	

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

5.5 (Gals.) X 3 = 16.5 Gals. I Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>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
1301	72.4	6.74	1055	125	5.5	odor
WELL DEWATERED @ 6 GALS						
1435	73.2	7.00	1108	78	—	

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Date: 7/25/11 Sampling Time: 1435 Depth to Water: 14.57

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

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 110725-CK1	Site: 4255 MACARTHUR BLVD.
Sampler: C. KUNATZICH <i>(mw)</i>	Date: 7/25/11
Well I.D.: mw-4	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): 30.61	Depth to Water (DTW): 7.27
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]:	

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: _____
--	--	---

_____ (Gals.) X 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 μS)	Turbidity (NTUs)	Gals. Removed	Observations
- NO SPH detected						
						odor: 50% brown
						NEW SPH sock replaced: 0.29 kg (0.62 lbs)
						NEW SPH sock placed: 0.15 kg (0.34 lbs)

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: mw- 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 #: 110725-CK1	Site: 4255 MACARTHUR BLVD.
Sampler: C. K. WATZICK mw	Date: 7/25/11
Well I.D.: mw-4	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 30.61	Depth to Water (DTW): 7.27
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.94	

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: _____
---	--	--

$3.7 \text{ (Gals.)} \times 3 = 11.1 \text{ Gals.}$ I Case Volume 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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
1345	75.5	7.09	1089	273	3.7	odor (strong)
1352	73.9	7.14	1081	411	7.4	"
1404	70.9	6.94	1053	409	11.1	"

Did well dewater? Yes No Gallons actually evacuated: 11.1

Sampling Date: 7/25/11 Sampling Time: 1420 Depth to Water: 9.17

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): @ _____ 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 #: 110725-CK1	Site: 4255 MARARTHUR BLVD.
Sampler: C. KINATRICK	Date: 7/25/11
Well I.D.: mw-5	Well Diameter: 2 3 4 6 8 _____
Total Well Depth (TD): _____	Depth to Water (DTW): _____
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]:	

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: _____
--	---	---

_____ (Gals.) X 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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
UNABLE TO LOCATE WELL IN THICK VEGETATION						

Did well dewater? Yes No Gallons actually evacuated: _____

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

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 #: 110725-CK1	Site: 4255 MARATHON BLVD.
Sampler: C. KINATRICK	Date: 7/25/11
Well I.D.: mw-6	Well Diameter: ② 3 4 6 8 _____
Total Well Depth (TD): 23.38	Depth to Water (DTW): 10.08
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.74	

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

2.1 (Gals.) X	3	= 6.3 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
1214	67.6	6.81	1194	382	2.1	
1218	68.2	6.87	1186	797	4.2	
1222	67.6	6.75	1182	>1000	6.3	

Did well dewater? Yes No Gallons actually evacuated: 6.3

Sampling Date: 7/25/11 Sampling Time: 1224 Depth to Water: 11.16

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

SHELL WELL MONITORING DATA SHEET

BTS #: 110725-CKI	Site: 4255 MACARTHUR BLVD.
Sampler: C. K. WATRICK	Date: 7/25/11
Well I.D.: mw-8	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 29.84	Depth to Water (DTW): 4.56
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.62	

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: _____
--	--	---

$16.4 \text{ (Gals.)} \times 3 = 49.2 \text{ Gals.}$ 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or (μS))	Turbidity (NTUs)	Gals. Removed	Observations
1112	68.4	7.06	1004	11	16.4	
1116	67.4	7.07	1002	20	32.8	
1118	WELL DEWATERED (R)			39 gal	39	DTW = 26.25
1402	68.6	7.22	981	16	GRAB	

Did well dewater? (Yes) No Gallons actually evacuated: 39.0

Sampling Date: 7/25/11 Sampling Time: 1402 Depth to Water: 6.99

Sample I.D.: mw-8 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 #: 110725-CKI	Site: 4255 MACARTHUR BLVD.
Sampler: C. KILPATRICK	Date: 7/25/11
Well I.D.: mw-9	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 29.66	Depth to Water (DTW): 6.53
Depth to Free Product: _____	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.16	

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: _____
---	--	--

15.0 (Gals.) X 3 = 45 Gals. I Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1154	70.9	7.03	799	15	15.0	OPOR
1158	68.9	7.00	760	13	30.0	
1159	Well dewatered @			34.9 gal	34.0	DTW = 26.79
1430	68.3	7.29	787	12	GRAB	

Did well dewater? Yes No Gallons actually evacuated: 34.0

Sampling Date: 7/25/11 Sampling Time: 1430 Depth to Water: 15.32 (2HR)

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

APPENDIX B

TEST AMERICA -
LABORATORY REPORT

LABORATORY REPORT

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

Project: 4255 MacArthur Blvd., Oakland,
CA

Sampled: 07/25/11
Received: 07/28/11
Issued: 08/05/11 10:22

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

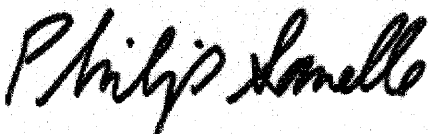
The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report.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

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IUG2702-01	MW-1	Water
IUG2702-02	MW-2	Water
IUG2702-03	MW-3	Water
IUG2702-04	MW-4	Water
IUG2702-05	MW-6	Water
IUG2702-06	MW-7	Water
IUG2702-07	MW-8	Water
IUG2702-08	MW-9	Water

Reviewed By:



TestAmerica Irvine

Philip Sanelle
Project Manager

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

Project ID: 4255 MacArthur Blvd., Oakland, CA

Report Number: IUG2702

Sampled: 07/25/11
 Received: 07/28/11

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUG2702-01 (MW-1 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11H0355	250	520	5	8/3/2011	8/3/2011	QP1
Surrogate: Dibromofluoromethane (80-120%)				94 %				
Surrogate: Toluene-d8 (80-120%)				104 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				100 %				
Sample ID: IUG2702-02 (MW-2 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11H0355	2500	46000	50	8/3/2011	8/3/2011	
Surrogate: Dibromofluoromethane (80-120%)				99 %				
Surrogate: Toluene-d8 (80-120%)				105 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				103 %				
Sample ID: IUG2702-03 (MW-3 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11H0355	1200	23000	25	8/3/2011	8/3/2011	
Surrogate: Dibromofluoromethane (80-120%)				96 %				
Surrogate: Toluene-d8 (80-120%)				104 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				104 %				
Sample ID: IUG2702-04 (MW-4 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11H0355	5000	94000	100	8/3/2011	8/3/2011	
Surrogate: Dibromofluoromethane (80-120%)				96 %				
Surrogate: Toluene-d8 (80-120%)				105 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				105 %				
Sample ID: IUG2702-05 (MW-6 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11H0355	500	4600	10	8/3/2011	8/3/2011	
Surrogate: Dibromofluoromethane (80-120%)				99 %				
Surrogate: Toluene-d8 (80-120%)				106 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				105 %				
Sample ID: IUG2702-06 (MW-7 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11H0355	250	480	5	8/3/2011	8/3/2011	QP1
Surrogate: Dibromofluoromethane (80-120%)				97 %				
Surrogate: Toluene-d8 (80-120%)				105 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				101 %				

TestAmerica Irvine

Philip Sanelle
 Project Manager

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

Project ID: 4255 MacArthur Blvd., Oakland, CA

Report Number: IUG2702

Sampled: 07/25/11
Received: 07/28/11

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUG2702-07 (MW-8 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11H0355	200	300	4	8/3/2011	8/3/2011	QPI
Surrogate: Dibromofluoromethane (80-120%)				95 %				
Surrogate: Toluene-d8 (80-120%)				104 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				100 %				
Sample ID: IUG2702-08 (MW-9 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11H0355	500	1200	10	8/3/2011	8/3/2011	
Surrogate: Dibromofluoromethane (80-120%)				96 %				
Surrogate: Toluene-d8 (80-120%)				103 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				100 %				

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Project Manager

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IUG2702 <Page 3 of 12>

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

Project ID: 4255 MacArthur Blvd., Oakland, CA

Report Number: IUG2702

Sampled: 07/25/11
 Received: 07/28/11

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUG2702-01 (MW-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11H0355	2.5	31	5	8/3/2011	8/3/2011	
Ethylbenzene	EPA 8260B	11H0355	2.5	ND	5	8/3/2011	8/3/2011	
Toluene	EPA 8260B	11H0355	2.5	ND	5	8/3/2011	8/3/2011	
Xylenes, Total	EPA 8260B	11H0355	5.0	ND	5	8/3/2011	8/3/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11H0355	5.0	ND	5	8/3/2011	8/3/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11H0355	5.0	ND	5	8/3/2011	8/3/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11H0355	5.0	530	5	8/3/2011	8/3/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11H0355	5.0	ND	5	8/3/2011	8/3/2011	
tert-Butanol (TBA)	EPA 8260B	11H0355	50	1600	5	8/3/2011	8/3/2011	
Ethanol	EPA 8260B	11H0355	750	ND	5	8/3/2011	8/3/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				100 %				
Surrogate: Dibromofluoromethane (80-120%)				94 %				
Surrogate: Toluene-d8 (80-120%)				104 %				

Sample ID: IUG2702-02 (MW-2 - Water)

Reporting Units: ug/l

Benzene	EPA 8260B	11H0355	25	990	50	8/3/2011	8/3/2011	
Ethylbenzene	EPA 8260B	11H0355	25	2500	50	8/3/2011	8/3/2011	
Toluene	EPA 8260B	11H0355	25	560	50	8/3/2011	8/3/2011	
Xylenes, Total	EPA 8260B	11H0355	50	5100	50	8/3/2011	8/3/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11H0355	50	ND	50	8/3/2011	8/3/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11H0355	50	ND	50	8/3/2011	8/3/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11H0355	50	1600	50	8/3/2011	8/3/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11H0355	50	ND	50	8/3/2011	8/3/2011	
tert-Butanol (TBA)	EPA 8260B	11H0355	500	1900	50	8/3/2011	8/3/2011	
Ethanol	EPA 8260B	11H0355	7500	ND	50	8/3/2011	8/3/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				103 %				
Surrogate: Dibromofluoromethane (80-120%)				99 %				
Surrogate: Toluene-d8 (80-120%)				105 %				

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 Project Manager

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

Project ID: 4255 MacArthur Blvd., Oakland, CA

Report Number: IUG2702

Sampled: 07/25/11

Received: 07/28/11

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUG2702-03 (MW-3 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11H0355	12	1600	25	8/3/2011	8/3/2011	
Ethylbenzene	EPA 8260B	11H0355	12	1200	25	8/3/2011	8/3/2011	
Toluene	EPA 8260B	11H0355	12	24	25	8/3/2011	8/3/2011	
Xylenes, Total	EPA 8260B	11H0355	25	1000	25	8/3/2011	8/3/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11H0355	25	ND	25	8/3/2011	8/3/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11H0355	25	ND	25	8/3/2011	8/3/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11H0355	25	840	25	8/3/2011	8/3/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11H0355	25	ND	25	8/3/2011	8/3/2011	
tert-Butanol (TBA)	EPA 8260B	11H0355	250	940	25	8/3/2011	8/3/2011	
Ethanol	EPA 8260B	11H0355	3800	ND	25	8/3/2011	8/3/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)								104 %
Surrogate: Dibromofluoromethane (80-120%)								96 %
Surrogate: Toluene-d8 (80-120%)								104 %
Sample ID: IUG2702-04 (MW-4 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11H0355	50	2800	100	8/3/2011	8/3/2011	
Ethylbenzene	EPA 8260B	11H0355	50	3800	100	8/3/2011	8/3/2011	
Toluene	EPA 8260B	11H0355	50	2900	100	8/3/2011	8/3/2011	
Xylenes, Total	EPA 8260B	11H0355	100	12000	100	8/3/2011	8/3/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11H0355	100	ND	100	8/3/2011	8/3/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11H0355	100	ND	100	8/3/2011	8/3/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11H0355	100	ND	100	8/3/2011	8/3/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11H0355	100	ND	100	8/3/2011	8/3/2011	
tert-Butanol (TBA)	EPA 8260B	11H0355	1000	ND	100	8/3/2011	8/3/2011	
Ethanol	EPA 8260B	11H0355	15000	ND	100	8/3/2011	8/3/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)								105 %
Surrogate: Dibromofluoromethane (80-120%)								96 %
Surrogate: Toluene-d8 (80-120%)								105 %

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Project Manager

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

Project ID: 4255 MacArthur Blvd., Oakland, CA

Report Number: IUG2702

Sampled: 07/25/11

Received: 07/28/11

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUG2702-05 (MW-6 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11H0355	5.0	730	10	8/3/2011	8/3/2011	
Ethylbenzene	EPA 8260B	11H0355	5.0	6.5	10	8/3/2011	8/3/2011	
Toluene	EPA 8260B	11H0355	5.0	13	10	8/3/2011	8/3/2011	
Xylenes, Total	EPA 8260B	11H0355	10	18	10	8/3/2011	8/3/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11H0355	10	ND	10	8/3/2011	8/3/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11H0355	10	ND	10	8/3/2011	8/3/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11H0355	10	110	10	8/3/2011	8/3/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11H0355	10	ND	10	8/3/2011	8/3/2011	
tert-Butanol (TBA)	EPA 8260B	11H0355	100	5500	10	8/3/2011	8/3/2011	
Ethanol	EPA 8260B	11H0355	1500	ND	10	8/3/2011	8/3/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				105 %				
Surrogate: Dibromofluoromethane (80-120%)				99 %				
Surrogate: Toluene-d8 (80-120%)				106 %				
Sample ID: IUG2702-06 (MW-7 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11H0355	2.5	8.8	5	8/3/2011	8/3/2011	
Ethylbenzene	EPA 8260B	11H0355	2.5	3.8	5	8/3/2011	8/3/2011	
Toluene	EPA 8260B	11H0355	2.5	ND	5	8/3/2011	8/3/2011	
Xylenes, Total	EPA 8260B	11H0355	5.0	5.8	5	8/3/2011	8/3/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11H0355	5.0	ND	5	8/3/2011	8/3/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11H0355	5.0	ND	5	8/3/2011	8/3/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11H0355	5.0	500	5	8/3/2011	8/3/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11H0355	5.0	ND	5	8/3/2011	8/3/2011	
tert-Butanol (TBA)	EPA 8260B	11H0355	50	480	5	8/3/2011	8/3/2011	
Ethanol	EPA 8260B	11H0355	750	ND	5	8/3/2011	8/3/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				101 %				
Surrogate: Dibromofluoromethane (80-120%)				97 %				
Surrogate: Toluene-d8 (80-120%)				105 %				

TestAmerica Irvine

Philip Sanelle
Project Manager

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IUG2702 <Page 6 of 12>

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

Project ID: 4255 MacArthur Blvd., Oakland, CA

Report Number: IUG2702

Sampled: 07/25/11

Received: 07/28/11

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUG2702-07 (MW-8 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11H0355	2.0	ND	4	8/3/2011	8/3/2011	
Ethylbenzene	EPA 8260B	11H0355	2.0	ND	4	8/3/2011	8/3/2011	
Toluene	EPA 8260B	11H0355	2.0	ND	4	8/3/2011	8/3/2011	
Xylenes, Total	EPA 8260B	11H0355	4.0	ND	4	8/3/2011	8/3/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11H0355	4.0	ND	4	8/3/2011	8/3/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11H0355	4.0	ND	4	8/3/2011	8/3/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11H0355	4.0	350	4	8/3/2011	8/3/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11H0355	4.0	ND	4	8/3/2011	8/3/2011	
tert-Butanol (TBA)	EPA 8260B	11H0355	40	ND	4	8/3/2011	8/3/2011	
Ethanol	EPA 8260B	11H0355	600	ND	4	8/3/2011	8/3/2011	

Surrogate: 4-Bromofluorobenzene (80-120%)

100 %

Surrogate: Dibromofluoromethane (80-120%)

95 %

Surrogate: Toluene-d8 (80-120%)

104 %

Sample ID: IUG2702-08 (MW-9 - Water)

Reporting Units: ug/l

Benzene	EPA 8260B	11H0355	5.0	210	10	8/3/2011	8/3/2011	
Ethylbenzene	EPA 8260B	11H0355	5.0	67	10	8/3/2011	8/3/2011	
Toluene	EPA 8260B	11H0355	5.0	ND	10	8/3/2011	8/3/2011	
Xylenes, Total	EPA 8260B	11H0355	10	15	10	8/3/2011	8/3/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11H0355	10	ND	10	8/3/2011	8/3/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11H0355	10	ND	10	8/3/2011	8/3/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11H0355	10	710	10	8/3/2011	8/3/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11H0355	10	ND	10	8/3/2011	8/3/2011	
tert-Butanol (TBA)	EPA 8260B	11H0355	100	480	10	8/3/2011	8/3/2011	
Ethanol	EPA 8260B	11H0355	1500	ND	10	8/3/2011	8/3/2011	

Surrogate: 4-Bromofluorobenzene (80-120%)

100 %

Surrogate: Dibromofluoromethane (80-120%)

96 %

Surrogate: Toluene-d8 (80-120%)

103 %

TestAmerica Irvine

Philip Sanelle
Project Manager

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

Project ID: 4255 MacArthur Blvd., Oakland, CA

Report Number: IUG2702

Sampled: 07/25/11
 Received: 07/28/11

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD	Limit	Data Qualifiers
Batch: 11H0355 Extracted: 08/03/11										
Blank Analyzed: 08/03/2011 (11H0355-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	21.3		ug/l	25.0		85	80-120			
Surrogate: Toluene-d8	25.4		ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	24.8		ug/l	25.0		99	80-120			
LCS Analyzed: 08/03/2011 (11H0355-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	466	50	ug/l	500		93	55-130			
Surrogate: Dibromofluoromethane	22.0		ug/l	25.0		88	80-120			
Surrogate: Toluene-d8	25.9		ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	25.4		ug/l	25.0		102	80-120			
Matrix Spike Analyzed: 08/03/2011 (11H0355-MS1)										
Volatile Fuel Hydrocarbons (C4-C12)	2060	50	ug/l	1720	498	91	50-145			
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		102	80-120			
Surrogate: Toluene-d8	26.1		ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	26.3		ug/l	25.0		105	80-120			
Matrix Spike Dup Analyzed: 08/03/2011 (11H0355-MSD1)										
Volatile Fuel Hydrocarbons (C4-C12)	1970	50	ug/l	1720	498	85	50-145	4	20	
Surrogate: Dibromofluoromethane	24.5		ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	26.1		ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	25.8		ug/l	25.0		103	80-120			

TestAmerica Irvine

Philip Sanelle
 Project Manager

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

Project ID: 4255 MacArthur Blvd., Oakland, CA
Report Number: IUG2702

Sampled: 07/25/11
Received: 07/28/11

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Data Qualifiers
Batch: 11H0355 Extracted: 08/03/11									
Blank Analyzed: 08/03/2011 (11H0355-BLK1)									
Benzene	ND	0.50	ug/l						
Ethylbenzene	ND	0.50	ug/l						
Toluene	ND	0.50	ug/l						
m,p-Xylenes	ND	1.0	ug/l						
o-Xylene	ND	0.50	ug/l						
Xylenes, Total	ND	1.0	ug/l						
Di-isopropyl Ether (DIPE)	ND	1.0	ug/l						
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/l						
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l						
tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/l						
tert-Butanol (TBA)	ND	10	ug/l						
Ethanol	ND	150	ug/l						
Surrogate: 4-Bromofluorobenzene	24.8		ug/l	25.0		99	80-120		
Surrogate: Dibromofluoromethane	21.3		ug/l	25.0		85	80-120		
Surrogate: Toluene-d8	25.4		ug/l	25.0		102	80-120		
LCS Analyzed: 08/03/2011 (11H0355-BS1)									
Benzene	25.9	0.50	ug/l	25.0		104	70-120		
Ethylbenzene	28.9	0.50	ug/l	25.0		116	75-125		
Toluene	27.2	0.50	ug/l	25.0		109	70-120		
m,p-Xylenes	53.1	1.0	ug/l	50.0		106	75-125		
o-Xylene	27.2	0.50	ug/l	25.0		109	75-125		
Xylenes, Total	80.3	1.0	ug/l	75.0		107	70-125		
Di-isopropyl Ether (DIPE)	25.1	1.0	ug/l	25.0		100	60-135		
Ethyl tert-Butyl Ether (ETBE)	22.8	1.0	ug/l	25.0		91	65-135		
Methyl-tert-butyl Ether (MTBE)	21.5	1.0	ug/l	25.0		86	60-135		
tert-Amyl Methyl Ether (TAME)	22.5	1.0	ug/l	25.0		90	60-135		
tert-Butanol (TBA)	134	10	ug/l	125		107	70-135		
Ethanol	303	150	ug/l	250		121	40-155		
Surrogate: 4-Bromofluorobenzene	25.6		ug/l	25.0		102	80-120		
Surrogate: Dibromofluoromethane	22.4		ug/l	25.0		90	80-120		
Surrogate: Toluene-d8	25.9		ug/l	25.0		104	80-120		

TestAmerica Irvine

Philip Sanelle
Project Manager

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

Project ID: 4255 MacArthur Blvd., Oakland, CA

Report Number: IUG2702

Sampled: 07/25/11

Received: 07/28/11

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0355 Extracted: 08/03/11										
Matrix Spike Analyzed: 08/03/2011 (11H0355-MS1)					Source: IUG2706-01					
Benzene	25.3	0.50	ug/l	25.0	ND	101	65-125			
Ethylbenzene	26.2	0.50	ug/l	25.0	0.410	103	65-130			
Toluene	26.0	0.50	ug/l	25.0	ND	104	70-125			
m,p-Xylenes	46.7	1.0	ug/l	50.0	ND	93	65-130			
o-Xylene	25.1	0.50	ug/l	25.0	ND	100	65-125			
Xylenes, Total	71.8	1.0	ug/l	75.0	ND	96	60-130			
Di-isopropyl Ether (DIPE)	28.1	1.0	ug/l	25.0	ND	113	60-140			
Ethyl tert-Butyl Ether (ETBE)	26.3	1.0	ug/l	25.0	ND	105	60-135			
Methyl-tert-butyl Ether (MTBE)	25.5	1.0	ug/l	25.0	ND	102	55-145			
tert-Amyl Methyl Ether (TAME)	26.9	1.0	ug/l	25.0	ND	108	60-140			
tert-Butanol (TBA)	125	10	ug/l	125	ND	100	65-140			
Ethanol	297	150	ug/l	250	ND	119	40-155			
Surrogate: 4-Bromofluorobenzene	26.3		ug/l	25.0		105	80-120			
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		102	80-120			
Surrogate: Toluene-d8	26.1		ug/l	25.0		104	80-120			
Matrix Spike Dup Analyzed: 08/03/2011 (11H0355-MSD1)					Source: IUG2706-01					
Benzene	24.7	0.50	ug/l	25.0	ND	99	65-125	2	20	
Ethylbenzene	26.2	0.50	ug/l	25.0	0.410	103	65-130	0	20	
Toluene	25.8	0.50	ug/l	25.0	ND	103	70-125	1	20	
m,p-Xylenes	47.1	1.0	ug/l	50.0	ND	94	65-130	0.9	25	
o-Xylene	25.1	0.50	ug/l	25.0	ND	100	65-125	0.04	20	
Xylenes, Total	72.2	1.0	ug/l	75.0	ND	96	60-130	0.6	20	
Di-isopropyl Ether (DIPE)	26.2	1.0	ug/l	25.0	ND	105	60-140	7	25	
Ethyl tert-Butyl Ether (ETBE)	24.6	1.0	ug/l	25.0	ND	98	60-135	7	25	
Methyl-tert-butyl Ether (MTBE)	23.0	1.0	ug/l	25.0	ND	92	55-145	10	25	
tert-Amyl Methyl Ether (TAME)	24.8	1.0	ug/l	25.0	ND	99	60-140	8	30	
tert-Butanol (TBA)	131	10	ug/l	125	ND	105	65-140	4	25	
Ethanol	300	150	ug/l	250	ND	120	40-155	1	30	
Surrogate: 4-Bromofluorobenzene	25.8		ug/l	25.0		103	80-120			
Surrogate: Dibromofluoromethane	24.5		ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	26.1		ug/l	25.0		104	80-120			

TestAmerica Irvine

Philip Sanelle
Project Manager

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

Project ID: 4255 MacArthur Blvd., Oakland, CA

Report Number: IUG2702

Sampled: 07/25/11

Received: 07/28/11

DATA QUALIFIERS AND DEFINITIONS

- QP1** Hydrocarbon result partly due to individual peak(s) in quantitation range.
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

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

For Volatile Fuel Hydrocarbons (C4-C12):

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

TestAmerica Irvine

Philip Sanelle
Project Manager

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IUG2702 <Page 11 of 12>

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

Project ID: 4255 MacArthur Blvd., Oakland, CA

Report Number: IUG2702

Sampled: 07/25/11

Received: 07/28/11

Certification Summary

TestAmerica Irvine

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

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

TestAmerica Irvine

Philip Sanelle
Project Manager

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LAB (LOCATION)

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



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

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

Print Bill To Contact Name:
Peter Schaefer 240524

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

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

SAP #

CHECK IF NO INCIDENT # APPLIES

DATE: 7/25/11

PAGE: 1 of 1

SAMPLING COMPANY:
Blaine Tech Services

LOG CODE:
BTSS

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

State
CA

GLOBAL ID NO.:
T0600101261

ADDRESS:
1680 Rogers Avenue, San Jose, CA

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

PHONE NO.:
510-420-3343

E-MAIL:
shelledf@croworld.com

CONSULTANT PROJECT NO.:
110725-CK1

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

SAMPLER NAME(S) (Print):
C. KUPATZACK, W. WONG

LAB USE ONLY
FUE 2702

TELEPHONE:
310-995-4455 x 108

FAX:
310-637-5802

E-MAIL:
lking@blainetech.com

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

REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :
Email invoice and copy of final report to Shell.Lab.Billing@croworld.com

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

TEMPERATURE ON RECEIPT
31

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	ANALYSIS										TEMPERATURE ON RECEIPT	Container PID Readings or Laboratory Notes							
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH - GRO, Purgeable (8260B)	TPH - DRO, Extractable (8015M)	TPHg (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 6 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)			EDB (8260B)	Ethanol (8260B)	Methanol (8015M)				
	MW-1	7/25/11	1410	W	3						X				X														
	MW-2		1510		3						X				X														
	MW-3		1435		3						X				X														
	MW-4		1420		3						X				X														
	MW-5																												
	MW-6	7/25/11	1224	W	3						X				X														
	MW-7		1502		3						X				X														
	MW-8		1402		3						X				X														
	MW-9		1430		3						X				X														

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i> (SAMPLE CUSTODIAN)	Date: 7/25/11	Time: 1630
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 7/27/11	Time: 1415
Relinquished by: (Signature) <i>[Signature]</i> 7-27-11 19:00	Received by: (Signature) <i>[Signature]</i>	Date: 7/28/11	Time: 9:30

APPENDIX C

CRA -

DATA TABLES FOR 76 SERVICE STATION NO. 1156

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL STATION #1156
UNION OIL SITE 351645
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS												
					Oil And Grease	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE by SW8260	Diisopropyl ether (DIPE)	tert-Butyl ethyl ether (ETBE)	tert-Amyl methyl ether (TAME)	tert-Butyl alcohol (TBA)	1,2-Dibromoethane (EDB)	1,2-Dichloroethane (1,2-DCA)	Ethanol	
	Units	ft	ft	ft-amsl	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1B	07/25/2011	174.06	6.69	167.37	<5.0	<40	140	7.8	0.35	<0.30	<0.60	47	<0.50	<0.50	<0.50	28	<0.50	0.75	<250	
MW-2B	07/25/2011	173.55	3.91	169.64	-	<40	210	1.7	<0.30	<0.30	<0.60	170	<0.50	<0.50	<0.50	1,100	<0.50	<0.50	<250	
MW-3B	07/25/2011	177.77	5.53	172.24	-	100	1,700	28	33	80	73	62	<0.50	<0.50	<0.50	47	<0.50	<0.50	<250	
MW-4B	07/25/2011	179.07	5.52	173.55	-	<40	<50	<0.30	<0.30	<0.30	<0.60	28	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250	
MW-5	07/25/2011	169.18	1.79	167.39	-	<40	140	<0.30	<0.30	<0.30	<0.60	130	<0.50	<0.50	<0.50	<10	<0.50	1.6	<250	
MW-7	07/25/2011	172.11	6.89	165.22	-	<40	610	2.5	<0.30	<0.30	<0.60	620	<0.50	<0.50	<0.50	220	<0.50	1.6	<250	

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

**GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL STATION #1156
UNION OIL SITE 351645
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA**

µg/L = Micrograms per Liter

mg/L = Milligrams per Liter

TPHd = Diesel Range Organics

TPHg = Gasoline Range Organics

VOCS = Volatile Organic Compounds

MTBE = Methyl tert butyl ether

-- = Not available / not applicable

<x = Not detected above laboratory reported practical quantitation level.