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Transmittal

Date: October 15, 2015 Reference No.: 240524

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

Subject: Former Shell Station, 4255 MacArthur Boulevard, Oakland, California

No. of Copies	Description/Title	Drawing No./ Document Ref.	Issue
1	Groundwater Monitoring Report - Third Quarter 2015		

Issued for: ☐ Your information ☒ As requested ☐ Construction ☐ Quotation
☐ Your approval/comments ☐ Returned to you ☐ For re-submission

Sent by: ☐ Overnight courier ☐ Same day courier ☐ Mailed under separate cover ☐ Mail enclosed
☒ Other: GeoTracker and Alameda County FTP

Remarks:
If you have any questions regarding the contents of this document, please call the GHD project manager Peter Schaefer at (510) 420-3319 or the Shell program manager Andrea Wing at (714) 713-1050.

Copy to: Andrea Wing, Shell Oil Products US
(electronic copy)

Laura Wong (property owner's agent)
Phua Management (electronic copy)

Kenneth Williams
MacArthur/High Trailer Park

Ed C. Ralston, Phillips 66
Remediation Management
(electronic copy)

Completed by: Peter Schaefer Signed:
[Please Print]

Filing: Correspondence File

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

Re: 4255 MacArthur Boulevard, Oakland, California
PlaNet Site ID 10059253
PlaNet Project ID 38573
ACEH Case No. RO0000486

Dear Mr. Wickham:

I am informed and believe that, based on a reasonably diligent inquiry undertaken by GHD on behalf of Equilon Enterprises LLC dba Shell Oil Products US, the information and/or recommendations contained in the attached document is true, and on that ground I declare under penalty of perjury in accordance with Water Code section 13267 that this statement is true and correct.

As always, please feel free to contact me directly at (714) 731-1050 with any questions or concerns.

Sincerely,
Shell Oil Products US

Andrea A. Wing
Principal Program Manager

Groundwater Monitoring Report – Third Quarter 2015

Former Shell Service Station
4255 MacArthur Boulevard
Oakland, California

PlaNet Site ID	10059253
PlaNet Project ID	38573
Agency No.	RO0000486

Shell Oil Products US

5900 Hollis Street Suite A Emeryville California 94608 USA

240524 | 15.03 | Report No 33 | October 15, 2015

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Appendices

1. Introduction

GHD Services Inc. (GHD) 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 lot
Shell Project Manager	Andrea Wing
GHD Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000486
Shell PlaNet Site ID	10059253
Shell PlaNet Project ID	38573

Date of most recent agency correspondence was July 15, 2015 (electronic).

2. 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.

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

On January 27, 2015, Blaine removed the SPH-absorbent socks in wells MW-2, MW-3, and MW-4 to evaluate SPH rebound. Approximately 0.02 foot of SPHs was measured in well MW-2 during the January 27, 2015 event. No SPHs were measured in the other wells during this monitoring event. On July 21, 2015, Blaine reinstalled the SPH-absorbent socks in wells MW-2, MW-3 and MW-4. Approximately 0.07 foot of SPHs was measured in well MW-2 during the July 21, 2015 event. No SPHs were measured in the other wells during this monitoring event. Approximately 0.33 pounds of SPHs were recovered by hand bailing MW-2 during third quarter 2015. Historical SPH removal data are presented in Table 2, and a summary of SPH removal is provided below.

SPH Removal Summary	
This Period (pounds)	Cumulative Removal (pounds)
0.33	55.19

On February 23, 2015, Conestoga-Rovers & Associates submitted a *Corrective Action Plan* recommending implementing monitored natural attenuation at this time and reviewing any development plans when they become available to determine the appropriate course should land use change. The property owner provided Shell with a tentative redevelopment plan, but has asked Shell to suspend evaluation of the plan because they anticipate substantially revising the plan.

2.2 Current Quarter's Findings

Groundwater Flow Direction	Westerly to Southwesterly
Hydraulic Gradient	Averages 0.05
Depth to Water	5.15 to 14.61 feet below top of well casing

2.3 Proposed Activities

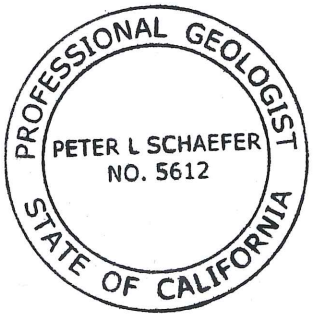
Blaine will gauge and sample wells according to the established monitoring program for this Site. This Site is monitored semiannually during the first and third quarters, and Shell will issue groundwater monitoring reports semiannually following the sampling events. Blaine will coordinate sampling events with 76 Station No. 1156.

Blaine will replace SPH absorbent socks in wells MW-2, MW-3, and MW-4 if SPHs are observed during second quarter 2015. The socks will then be replaced quarterly until no SPHs are observed or recovered for four consecutive quarters.

Shell will review any development plans when they become available to determine the appropriate course should land use change.

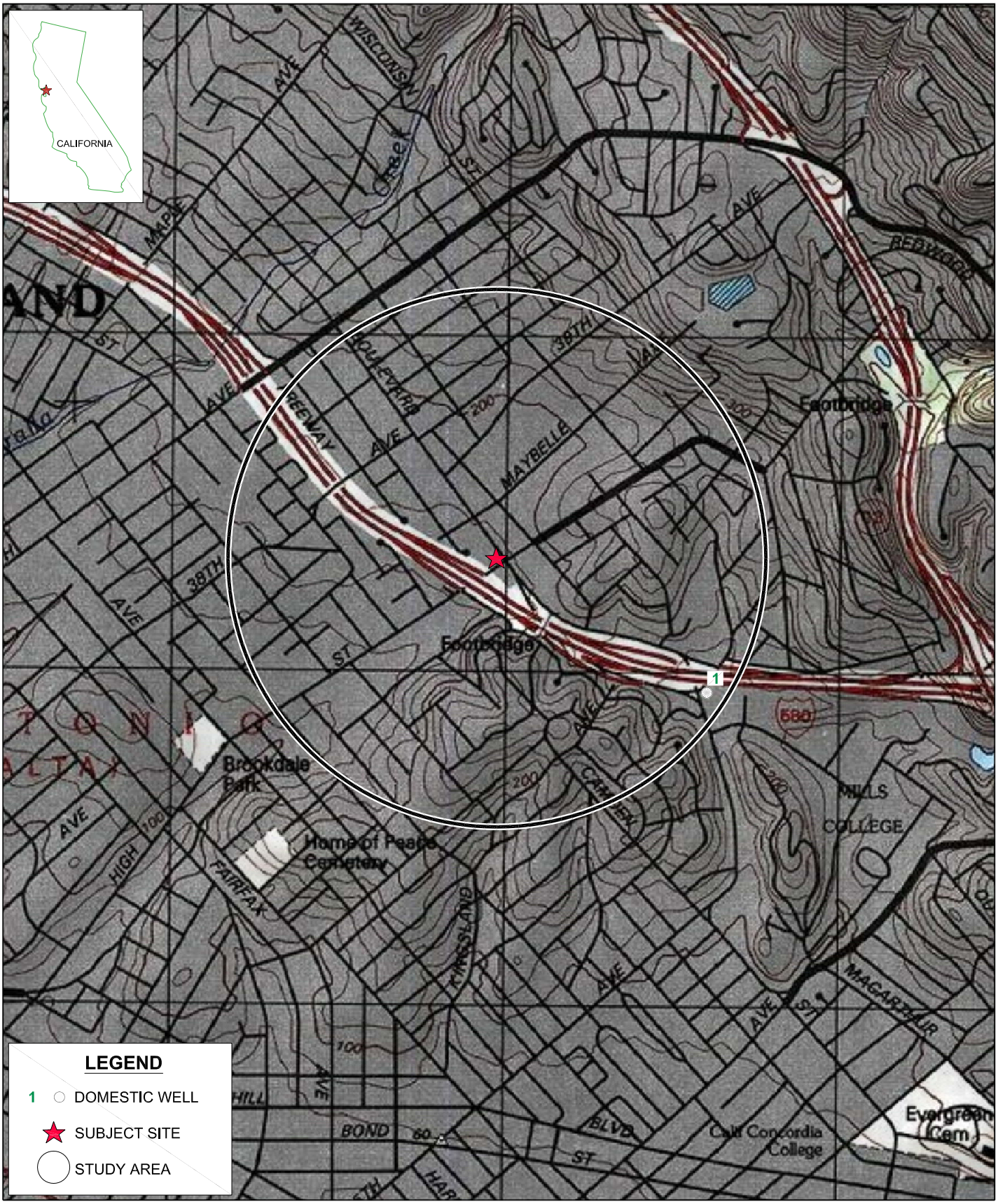
All of Which is Respectfully Submitted,

GHD



Peter Schaefer, CEG, CHG

Diane M. Lundquist, P.E.



Source: TOPO! MAPS

0 660 1320ft

FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

240524-15.03

Sep 21, 2015

VICINITY MAP

FIGURE 1

CAD File: I:\Shell\6-chars\2405--\240524-Oakland 4255 MacArthur\240524-FIGURES\240524-33-FIGURES\240524-15.03(033)GN-EM001.DWG

EXPLANATION

- MW-1 — Monitoring well location (Shell)
- MW-1B — Monitoring well location (ConocoPhillips)
- SVW-1 — Soil vapor well location (ConocoPhillips)
- TB-1 — Destroyed well location
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- Electrical line (E)
- Unknown utility line (?)
- Gas line (G)
- Average groundwater flow direction and gradient (x.xx)
- XX.XX — Groundwater elevation contour, in feet above mean sea level (ft MSL); dashed where inferred

Well
ELEV
Benzene
MTBE

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

Notes:
<X = Not detected at reporting limit X
NS = Not sampled
SPH = Separate-phase hydrocarbons present; well not sampled
*** =** Data anomalous; not used in contouring

MW-10S: 169.65 / 1.6 / 10
MW-10B: 167.04 / 780 / 96
MW-5: 166.60 / NS
MW-1B: 166.42 / NS
MW-9A: 167.14 / 2,700 / <5.0
MW-9B: 166.77 / NS
MW-10A: 167.16 / 15,000 / 420
MW-4B: 171.81 / NS
MW-8: 168.98 / <0.50 / 41
MW-3: 159.98 / 2,000 / 700
MW-2B: 163.20* / NS
MW-7: 164.63* / NS
MW-3B: 170.49 / 210 / 23
MW-9: 167.88 / <1.0 / 300
MW-11A: 169.98 / 11,000 / 2,600
MW-11S: 169.96 / 670 / 190
MW-11B: 169.28 / 10,000 / 1,900
MW-2: 159.16 / SPH
MW-6: 158.86 / 680 / 73
MW-1: 167.42 / <10 / 950
MW-7: 162.08 / 3.2 / 220
MW-5: 156.20 / <0.50 / 3.0
MW-4: 156.00 / 37 / 31

Parking; Pharmacy; Former Used Oil UST; Existing Used Oil AST; SVW-1; SVW-2; SVW-5; SVW-3; SVW-6; SVW-4; 76 Station #1156 4276 MacArthur; Former USTs; MW-4; MW-3; TP-1; MW-2; USTs; Former Dispenser Island (removed 1/03); Former Dispenser Island (removed 11/95); Former Shell 4255 MacArthur; Former Storage Building; Former USTs; TB-1; TB-2; Former Dispenser Island (removed 1/03); Former Chevron Service Station; Church Structures; Foot Clinic; Mobile Home Park; Residence 4240 Redding; Fenceline; Steep Embankment; 580 ON-RAMP; HIGHWAY 580; MACARTHUR BOULEVARD; HIGH STREET; 165.00; 160.00; 170.00; 0.05

0 20 40ft

GHD

FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - JULY 21, 2015

240524-15.03
Sep 21, 2015

FIGURE 2

CAD File: I:\Shell\6-chars\2405--\240524-Oakland 4255 MacArthur\240524-FIGURES\240524-33-FIGURES\240524-15.03(033)GN-EM002.DWG

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 (mg/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

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 (mg/L)	ORP Reading (mV)
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
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 c,g	7.1	0.24 h	<1.0	<1.0	---	2,800	3,600	---	---	---	---	---	---	175.76	6.98	168.78	---	---	---
MW-1	07/09/2007	960 c,g	4.3 h	<20	<20	<20	---	1,900	2,100	<40	<40	<40	---	---	<2,000	175.76	7.60	168.16	---	---	---
MW-1	10/08/2007	590 c,g	5.9 h	<20	<20	<20	---	3,200	2,200	---	---	---	---	---	---	175.76	8.05	167.71	---	---	---
MW-1	01/09/2008	470 c,g	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 c	41	<10	<10	<10	---	2,000	2,600	---	---	---	<10	<10	---	175.76	7.45	168.31	---	---	---

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 (mg/L)	ORP Reading (mV)
MW-1	07/25/2011	520 c	31	<2.5	<2.5	<5.0	---	530	1,600	<5.0	<5.0	<5.0	---	---	<750	175.76	7.39	168.37	---	---	---
MW-1	01/23/2012	<1,000	49	<10	<10	<20	---	1,200	1,200	---	---	---	---	---	---	175.76	7.85	167.91	---	---	---
MW-1	07/24/2012	390	14	<2.5	<2.5	<5.0	---	350	1,100	<2.5	<2.5	<2.5	---	---	---	175.76	7.80	167.96	---	---	---
MW-1	01/23/2013	1,100	45	<1.0	<1.0	<2.0	---	1,400	1,600	---	---	---	---	---	---	175.76	7.26	168.50	---	---	---
MW-1	07/10/2013	1,000	5.2	<5.0	<5.0	<10	---	1,000	700	<5.0	<5.0	<5.0	---	---	<1,500	175.76	7.99	167.77	---	---	---
MW-1	01/16/2014	840	56	<5.0	<5.0	<10	---	750	960	---	---	---	---	---	---	175.76	8.60	167.16	---	---	---
MW-1	07/10/2014	1,100 i	<10	<10	<10	<20	---	980	600	<10	<10	<10	---	---	<3,000	175.76	8.11	167.65	---	---	---
MW-1	01/27/2015	150	33	<0.50	<0.50	<1.0	---	55	630	---	---	---	---	---	---	175.76	7.54	168.22	---	---	---
MW-1	**07/21/2015**	**1,100 i**	**<10**	**<10**	**<10**	**<20**	**---**	**950**	**510**	**<10**	**<10**	**<10**	**---**	**---**	**<3,000**	**175.76**	**8.34**	**167.42**	**---**	**---**	**---**
MW-2	11/17/1993	31,000	9,400	4,600	1,000	3,900	---	---	---	---	---	---	---	---	---	170.91	12.31	158.60	---	---	---
MW-2	01/20/1994	40,000	6,900	5,600	780	4,100	---	---	---	---	---	---	---	---	---	170.91	11.48	159.43	---	---	---
MW-2 (D)	01/20/1994	41,000	7,200	6,200	900	4,800	---	---	---	---	---	---	---	---	---	170.91	11.48	159.43	---	---	---
MW-2	04/25/1994	60,000	9,300	6,100	1,400	6,200	---	---	---	---	---	---	---	---	---	170.91	10.84	160.07	---	---	---
MW-2	07/07/1994	280,000 a	40,000	26,000	8,100	32,000	---	---	---	---	---	---	---	---	---	170.91	11.89	159.02	---	---	---
MW-2 (D)	07/07/1994	53,000	13,000	6,600	2,000	8,400	---	---	---	---	---	---	---	---	---	170.91	11.89	159.02	---	---	---
MW-2	10/27/1994	130,000	14,000	12,000	2,400	13,000	---	---	---	---	---	---	---	---	---	170.91	12.89	158.02	---	---	---
MW-2 (D)	10/27/1994	390,000	8,800	7,000	1,700	11,000	---	---	---	---	---	---	---	---	---	170.91	12.89	158.02	---	---	---
MW-2	11/17/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	9.11	161.80	---	---	---
MW-2	11/28/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	9.22	161.69	---	---	---
MW-2	01/13/1995	75,000	5,900	12,000	3,100	17,000	---	---	---	---	---	---	---	---	---	170.91	8.10	162.81	---	---	---
MW-2	04/12/1995	100,000	8,500	11,000	2,400	12,000	---	---	---	---	---	---	---	---	---	170.91	10.12	160.79	---	---	---
MW-2 (D)	04/12/1995	80,000	4,200	9,300	2,500	12,000	---	---	---	---	---	---	---	---	---	170.91	10.12	160.79	---	---	---
MW-2	07/25/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	11.53	159.80	0.52	---	---
MW-2	10/18/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	14.02	156.99	0.13	---	---
MW-2	01/17/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	10.27	160.78	0.17	---	---
MW-2	04/25/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	11.68	159.25	0.03	---	---
MW-2	07/17/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	12.78	158.51	0.48	---	---
MW-2	10/01/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	14.21	156.92	0.28	---	---
MW-2	01/22/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	10.92	160.08	0.11	---	---
MW-2	04/08/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	14.12	156.95	0.20	---	---
MW-2	07/08/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	14.98	156.08	0.19	---	---
MW-2	10/08/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	12.97	157.98	0.05	---	---
MW-2	01/08/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	12.54	158.43	0.08	---	---
MW-2	04/13/1998	180,000	2,800	5,200	2,400	13,000	71,000	---	---	---	---	---	---	---	---	170.91	10.05	160.86	---	---	---
MW-2	07/17/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.91	11.75	159.24	0.10	---	---

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 (mg/L)	ORP Reading (mV)
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
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	---	---	---

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 (mg/L)	ORP Reading (mV)
MW-2	08/31/2006	91,200	1,590	3,710	2,570	11,700	---	3,520	3,940	---	---	---	---	---	---	170.88	18.03	152.85	---	---	---
MW-2	09/26/2006	50,000	2,300	1,300	1,600	6,700	---	17,000	19,000	---	---	---	---	---	---	170.88	10.23	160.65	---	---	---
MW-2	10/27/2006	159,000	5,200	3,890	2,600	12,500	---	18,100	9,230 d	---	---	---	---	---	---	170.88	12.11	158.77	---	---	---
MW-2	11/22/2006	53,000	1,500	960	1,800	7,100	---	9,600	12,000	---	---	---	---	---	---	170.88	11.35	159.53	---	---	---
MW-2	12/26/2006	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	01/10/2007	45,000	2,700	1,700	1,400	5,800	---	13,000	11,000	---	---	---	---	---	---	170.88	10.21	160.67	---	---	---
MW-2	02/19/2007	13,000	1,800	1,900	1,500	5,900	---	7,400	11,000	---	---	---	---	---	---	170.88	9.22	161.66	---	---	---
MW-2	03/16/2007	52,000	2,600	2,300	2,000	7,300	---	9,100	12,000	---	---	---	---	---	---	170.88	9.88	161.00	---	---	---
MW-2	04/13/2007	60,000 g	2,200	2,100	2,300	7,900	---	13,000	20,000	---	---	---	---	---	---	170.88	10.61	160.29	0.02	---	---
MW-2	07/09/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.77	159.20	0.11	---	---
MW-2	10/08/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	12.70	158.33	0.19	---	---
MW-2	11/19/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	8.00	162.88	---	---	---
MW-2	12/10/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	6.49	164.39	---	---	---
MW-2	01/09/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	01/22/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	02/21/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	8.86	162.02	---	---	---
MW-2	03/20/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.24	160.66	0.02	---	---
MW-2	04/04/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	05/27/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	12.44	158.46	0.03	---	---
MW-2	06/11/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.10	159.85	0.09	---	---
MW-2	06/11/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.10	159.85	0.09	---	---
MW-2	07/03/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.62	159.37	0.14	---	---
MW-2	08/04/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.88	159.05	0.06	---	---
MW-2	09/17/1998	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	10/03/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	12.66	158.43	0.26	---	---
MW-2	11/26/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	12/30/2008	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	01/22/2009	86,000	3,800	1,600	2,500	9,800	---	10,000	7,900	---	---	---	---	---	---	170.88	10.74	160.14	---	---	---
MW-2	02/27/2009	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	04/13/2009	60,000	1,700	980	2,000	7,000	---	4,300	4,600	---	---	---	---	---	---	170.88	10.36	160.53	0.01	---	---
MW-2	07/23/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.91	159.13	0.20	---	---
MW-2	11/10/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.87	160.04	0.04	---	---
MW-2	02/01/2010	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	02/09/2010	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---
MW-2	08/02/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.38	159.53	0.04	---	---
MW-2	01/31/2011	77,000	1,700	1,500	2,600	9,000	---	2,100	2,700	---	---	---	<25	<25	---	170.88	9.09	161.79	---	---	---

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 (mg/L)	ORP Reading (mV)
MW-2	04/26/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	9.98	160.90	0.00	---	---
MW-2	07/25/2011	46,000	990	560	2,500	5,100	---	1,600	1,900	<50	<50	<50	---	---	<7,500	170.88	10.76	160.12	0.00	---	---
MW-2	10/13/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.18	160.70	0.00	---	---
MW-2	01/23/2012	48,000	1,400	1,100	2,200	6,100	---	820	1,200	---	---	---	---	---	---	170.88	9.22	161.66	0.00	---	---
MW-2	04/23/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	9.20	161.68	0.00	---	---
MW-2	07/24/2012	63,000	1,400	970	2,600	7,100	---	1,000	980	<20	<20	<20	---	---	---	170.88	10.82	160.06	0.00	---	---
MW-2	11/07/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.76	160.12	0.00	---	---
MW-2	01/23/2013	48,000	1,500	1,300	1,800	5,400	---	1,100	1,400	---	---	---	---	---	---	170.88	10.30	160.58	0.00	---	---
MW-2	04/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.30	160.58	0.00	---	---
MW-2	07/10/2013	32,000	1,600	670	1,800	3,500	---	1,200	1,700	<20	<20	<20	---	---	<6,000	170.88	10.94	159.94	0.00	---	---
MW-2	10/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	11.93	158.95	---	---	---
MW-2	01/16/2014	92,000	2,700	4,200	3,600	13,000	---	830	900	---	---	---	---	---	---	170.88	11.85	159.03	---	---	---
MW-2	04/29/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.54	160.34	0.00	---	---
MW-2	07/10/2014	35,000	1,500	410	2,300	3,500	---	1,600	1,200	<50	<50	<50	---	---	<15,000	170.88	11.77	159.11	0.00	---	---
MW-2	10/14/2014	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	170.88	---	---	---	---	---	---
MW-2	01/27/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170.88	10.62	160.28	0.02	---	---
MW-2	**07/21/2015**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**170.88**	**11.78**	**159.16**	**0.07**	**---**	**---**
MW-3	11/17/1993	18,000	5,400	660	720	2,200	---	---	---	---	---	---	---	---	---	174.61	15.40	159.21	---	---	---
MW-3	01/20/1994	55,000	13,000	2,600	2,200	6,500	---	---	---	---	---	---	---	---	---	174.61	14.61	160.00	---	---	---
MW-3	04/25/1994	96,000	11,000	1,600	3,100	9,900	---	---	---	---	---	---	---	---	---	174.61	13.12	161.49	---	---	---
MW-3 (D)	04/25/1994	78,000	12,000	1,900	2,600	7,300	---	---	---	---	---	---	---	---	---	174.61	13.12	161.49	---	---	---
MW-3	07/07/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	14.54	160.09	0.02	---	---
MW-3	10/27/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	15.62	159.03	0.05	---	---
MW-3	11/17/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	13.83	160.78	---	---	---
MW-3	11/28/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	14.02	160.59	---	---	---
MW-3	01/13/1995	180,000	3,200	2,700	1,700	5,200	---	---	---	---	---	---	---	---	---	174.61	12.13	162.48	---	---	---
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	---	---	---

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 (mg/L)	ORP Reading (mV)
MW-3	01/22/1997	82,000	5,200	1,300	2,800	8,900	1,100	---	---	---	---	---	---	---	---	174.61	13.07	161.54	---	---	---
MW-3 (D)	01/22/1997	61,000	8,400	1,100	2,300	7,000	2,700	---	---	---	---	---	---	---	---	174.61	13.07	161.54	---	---	---
MW-3	04/08/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.61	17.09	157.54	0.03	---	---
MW-3	07/08/1997	56,000	8,800	580	2,000	4,900	2,800	---	---	---	---	---	---	---	---	174.61	15.85	158.76	---	---	---
MW-3	10/08/1997	48,000	8,000	590	1,700	3,400	5,100	---	---	---	---	---	---	---	---	174.61	16.22	158.39	---	---	---
MW-3	01/08/1998	47,000	9,400	810	2,300	4,700	6,300	---	---	---	---	---	---	---	---	174.61	13.80	160.81	---	---	---
MW-3 (D)	01/08/1998	48,000	8,100	750	2,000	4,100	5,800	---	---	---	---	---	---	---	---	174.61	13.80	160.81	---	---	---
MW-3	04/13/1998	32,000	6,800	540	1,400	3,400	4,000	---	---	---	---	---	---	---	---	174.61	12.97	161.64	---	---	---
MW-3 (D)	04/13/1998	36,000	7,300	660	1,600	3,700	4,000	---	---	---	---	---	---	---	---	174.61	12.97	161.64	---	---	---
MW-3	07/17/1998	71,000	11,000	590	2,200	6,900	3,900	---	---	---	---	---	---	---	---	174.61	11.51	163.10	---	---	---
MW-3 (D)	07/17/1998	76,000	12,000	700	2,600	8,000	3,000	---	---	---	---	---	---	---	---	174.61	11.51	163.10	---	---	---
MW-3	10/02/1998	66,000	8,900	510	2,000	4,900	4,600	---	---	---	---	---	---	---	---	174.61	16.50	158.11	---	---	---
MW-3 (D)	10/02/1998	59,000	9,400	460	2,000	4,900	4,700	---	---	---	---	---	---	---	---	174.61	16.50	158.11	---	---	---
MW-3	02/03/1999	36,000	6,800	300	1,600	2,900	18,000	---	---	---	---	---	---	---	---	174.61	15.21	159.40	---	1.3	---
MW-3	04/29/1999	45,000	8,100	580	2,200	5,800	4,700	5,150	---	---	---	---	---	---	---	174.61	15.43	159.18	---	1.5	-68
MW-3	07/23/1999	29,400	3,540	215	810	3,800	4,720	6,950 f	---	---	---	---	---	---	---	174.61	14.95	159.66	---	1.3	---
MW-3	11/01/1999	20,000	4,190	294	1,060	1,740	5,540	8,590	---	---	---	---	---	---	---	174.61	14.66	159.95	---	0.6	-110
MW-3	01/17/2000	17,000	3,900	89	1,100	1,200	7,900	---	---	---	---	---	---	---	---	174.61	13.94	160.67	---	1.3	-40
MW-3	04/17/2000	28,100	5,240	247	1,540	2,750	16,600	---	---	---	---	---	---	---	---	174.61	14.00	160.61	---	1.1	-86
MW-3	07/26/2000	24,300	6,680	159	1,610	1,640	17,100	---	---	---	---	---	---	---	---	174.61	13.72	160.89	---	0.9	-70
MW-3	10/12/2000	14,300	2,630	86.7	241	1,360	16,300	---	---	---	---	---	---	---	---	174.61	14.15	160.46	---	0.9	50
MW-3	01/15/2001	22,100	4,400	266	977	2,990	13,200	---	---	---	---	---	---	---	---	174.61	13.05	161.56	---	1.3	-40
MW-3	04/09/2001	33,800	7,100	147	1,700	2,660	13,000	---	---	---	---	---	---	---	---	174.61	13.59	161.02	---	0.6	-56
MW-3	07/24/2001	220,000	5,600	1,900	4,400	19,000	---	12,000	---	---	---	---	---	---	---	174.61	14.43	160.18	---	0.4	29
MW-3	10/31/2001	65,000	2,700	510	1,800	7,200	---	9,800	5,200	<20	<20	<20	---	---	<500	174.61	14.59	160.02	---	0.9	-27
MW-3	01/10/2002	66,000	2,400	490	1,700	6,600	---	5,500	---	---	---	---	---	---	---	174.61	12.65	161.96	---	1.7	-76
MW-3	04/25/2002	55,000	4,600	460	2,400	6,900	---	8,100	---	---	---	---	---	---	---	174.61	14.13	160.48	---	1.2	-96
MW-3	07/18/2002	56,000	3,300	270	1,700	5,000	---	8,400	---	---	---	---	---	---	---	174.61	15.48	159.15	0.03	0.8	-41
MW-3	10/07/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.60	160.15	0.20	---	---
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

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 (mg/L)	ORP Reading (mV)
MW-3	07/12/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.87	159.75	0.04	---	---
MW-3	10/25/2004	49,000	5,100	61	1,800	3,600	---	5,400	2,700	---	---	---	---	---	---	174.59	14.12	160.47	---	2.70	-59
MW-3	01/17/2005	57,000	8,000	190	2,000	4,000	---	4,600	3,300	---	---	---	---	---	---	174.59	10.59	164.00	---	0.2	-18
MW-3	04/06/2005	57,000	7,300	180	2,200	3,300	---	4,100	2,700	---	---	---	---	---	---	174.59	10.58	164.01	---	0.95	-77
MW-3	07/08/2005	28,000	2,900	47	1,100	2,000	---	2,800	1,900	<20	<20	<20	---	---	<200	174.59	13.46	161.13	---	0.1	-51
MW-3	10/07/2005	23,000	3,200	39	960	1,300	---	2,600	1,900	---	---	---	---	---	---	174.59	14.76	159.83	---	---	---
MW-3	01/27/2006	38,500	6,520	139	1,350	2,160	---	1,940	1,490	---	---	---	---	---	---	174.59	11.69	162.90	---	---	---
MW-3	03/16/2006	65,100	5,280	181	1,580	2,520	---	2,410	12,300	---	---	---	---	---	---	174.59	10.08	164.51	---	---	---
MW-3	04/28/2006	<1000	4,330	157	1,480	2,690	---	2,470	1,520	---	---	---	---	---	---	174.59	3.31	171.28	---	---	---
MW-3	05/15/2006	69,600	6,100	159	1,690	2,640	---	3,520	1,720	---	---	---	---	---	---	174.59	12.69	161.90	---	---	---
MW-3	06/19/2006	103,000	5,070	117	2,210	3,950	---	2,790	1,080	---	---	---	---	---	---	174.59	13.28	161.31	---	---	---
MW-3	07/28/2006	86,600	4,890	85.7	1,570	2,250	---	2,790	1,260	7.28	<0.500	<0.500	---	---	<50.0	174.59	14.72	159.87	---	---	---
MW-3	08/31/2006	45,700	4,600	204	1,740	2,680	---	2,580	1,520	---	---	---	---	---	---	174.59	14.75	159.84	---	---	---
MW-3	09/26/2006	29,000	3,900	76	1,500	2,100	---	2,700	1,500	---	---	---	---	---	---	174.59	14.97	159.62	---	---	---
MW-3	10/27/2006	41,000	3,690	65.2	1,210	1,650	---	1,760	867 d	---	---	---	---	---	---	174.59	15.00	159.59	---	---	---
MW-3	11/22/2006	30,000	3,300	51	810	1,500	---	1,900	1,300	---	---	---	---	---	---	174.59	14.26	160.33	---	---	---
MW-3	12/26/2006	31,000	2,500	56	1,100	1,500	---	2,200	2,000	---	---	---	---	---	---	174.59	12.52	162.07	---	---	---
MW-3	01/10/2007	18,000	2,600	43	750	940	---	2,100	2,100	---	---	---	---	---	---	174.59	12.81	161.78	---	---	---
MW-3	02/19/2007	27,000	3,800	110	1,200	1,500	---	2,400	3,200	---	---	---	---	---	---	174.59	11.65	162.94	---	---	---
MW-3	03/16/2007	25,000	4,000	80	1,300	1,500	---	2,100	2,400	---	---	---	---	---	---	174.59	12.20	162.39	---	---	---
MW-3	04/13/2007	30,000 g	4,400	73	1,500	1,920	---	2,800	3,900	---	---	---	---	---	---	174.59	13.37	161.22	---	---	---
MW-3	07/09/2007	25,000 g	3,800	57	1,400	1,456	---	1,900	1,500	<100	<100	<100	---	---	<5,000	174.59	14.30	160.29	---	---	---
MW-3	10/08/2007	20,000 g	3,200	35 h	1,300	1,124 h	---	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 h	---	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	---	---

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 (mg/L)	ORP Reading (mV)
MW-3	11/26/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.54	160.05	0.00	---	---
MW-3	12/30/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.04	161.55	---	---	---
MW-3	01/22/2009	27,000	2,300	29	880	610	---	1,600	1,700	---	---	---	---	---	---	174.59	13.73	160.86	---	---	---
MW-3	02/27/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	12.88	161.71	---	---	---
MW-3	04/13/2009	27,000	3,000	51	1,200	740	---	1,400	1,500	---	---	---	---	---	---	174.59	13.01	161.58	---	---	---
MW-3	07/23/2009	26,000	3,300	41	1,600	1,200	---	2,200	1,600	<50	<50	<50	---	---	<2,500	174.59	14.59	160.00	---	---	---
MW-3	11/10/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.66	160.93	---	---	---
MW-3	02/01/2010	34,000	3,200	44	1,300	1,700	---	1,000	1,100	---	---	---	---	---	---	174.59	10.65	163.94	---	---	---
MW-3	08/02/2010	16,000	1,500	12	440	460	---	910	1,200	---	---	---	---	---	---	174.59	14.09	160.50	---	---	---
MW-3	01/31/2011	21,000	2,200	32	980	980	---	1,300	1,700	---	---	---	<20	<20	---	174.59	11.89	162.70	---	---	---
MW-3	04/26/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	12.56	162.03	0.00	---	---
MW-3	07/25/2011	23,000	1,600	24	1,200	1,000	---	840	940	<25	<25	<25	---	---	<3,800	174.59	13.53	161.06	0.00	---	---
MW-3	10/13/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.02	161.57	0.00	---	---
MW-3	01/23/2012	25,000	1,500	16	640	610	---	730	660	---	---	---	---	---	---	174.59	12.30	162.29	0.00	---	---
MW-3	04/23/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	11.43	163.16	0.00	---	---
MW-3	07/24/2012	22,000	2,100	33	870	550	---	970	1,100	<10	<10	<10	---	---	---	174.59	13.84	160.76	0.01	---	---
MW-3	11/07/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.81	160.78	0.00	---	---
MW-3	01/23/2013	36,000	1,600	18	900	830	---	800	1,200	---	---	---	---	---	---	174.59	12.85	161.74	0.00	---	---
MW-3	04/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	13.33	161.26	0.00	---	---
MW-3	07/10/2013	14,000	1,700	17	250	330	---	870	970	<10	<10	<10	---	---	<3,000	174.59	14.01	160.58	0.00	---	---
MW-3	10/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	14.87	159.72	---	---	---
MW-3	01/16/2014	31,000	2,100	27	1,600	1,700	---	830	960	---	---	---	---	---	---	174.59	15.37	159.22	---	---	---
MW-3	04/29/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	12.99	161.60	0.00	---	---
MW-3	07/10/2014	19,000	1,900	26	510	560	---	910	1,000	<13	<13	<13	---	---	<3,800	174.59	14.63	159.96	0.00	---	---
MW-3	10/14/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.59	15.93	158.66	0.00	---	---
MW-3	01/27/2015	20,000	1,700	22	430	370	---	730	1,100	---	---	---	---	---	---	174.59	13.23	161.36	0.00	---	---
MW-3	**07/21/2015**	**13,000**	**2,000**	**18**	**98**	**110**	**---**	**700**	**1,000**	**<13**	**<13**	**<13**	**---**	**---**	**<3,800**	**174.59**	**14.61**	**159.98**	**---**	**---**	**---**
MW-4	11/17/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.06	6.62	157.44	---	---	---
MW-4	11/28/1994	2,900	200	17	76	260	---	---	---	---	---	---	---	---	---	164.06	6.11	157.95	---	---	---
MW-4	01/13/1995	1,900	130	5.6	13	40	---	---	---	---	---	---	---	---	---	164.06	6.05	158.01	---	---	---
MW-4	04/12/1995	680	150	<2.0	10	13	---	---	---	---	---	---	---	---	---	164.06	6.31	157.75	---	---	---
MW-4	07/25/1995	340	100	0.80	8.8	3.0	---	---	---	---	---	---	---	---	---	164.06	7.36	156.70	---	---	---
MW-4	10/18/1995	150	31	<0.50	3.5	0.80	---	---	---	---	---	---	---	---	---	164.06	8.54	155.52	---	---	---
MW-4	01/17/1996	290	14	<0.50	1.8	0.80	---	---	---	---	---	---	---	---	---	164.06	8.48	155.58	---	---	---
MW-4	04/25/1996	<500	65	<5.0	<5.0	<5.0	1,700	---	---	---	---	---	---	---	---	164.06	7.40	156.66	---	---	---

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 (mg/L)	ORP Reading (mV)
MW-4 (D)	04/25/1996	<500	66	<5.0	8.7	<5.0	1,500	---	---	---	---	---	---	---	---	164.06	7.40	156.66	---	---	---
MW-4	07/17/1996	<500	84	<5.0	6.5	<5.0	1,500	---	---	---	---	---	---	---	---	164.06	7.75	156.31	---	---	---
MW-4 (D)	07/17/1996	<500	54	<5.0	<5.0	<5.0	1,700	2,100	---	---	---	---	---	---	---	164.06	7.75	156.31	---	---	---
MW-4	10/01/1996	<500	1.9	<5.0	<5.0	<5.0	3,000	---	---	---	---	---	---	---	---	164.06	8.82	155.24	---	---	---
MW-4	01/22/1997	580	130	<2.5	18	5.2	1,200	---	---	---	---	---	---	---	---	164.06	7.51	156.55	---	---	---
MW-4	04/08/1997	770	200	7.0	26	55	1,500	8.0	---	---	---	---	---	---	---	164.06	7.18	156.88	---	---	---
MW-4	07/08/1997	570	78	<5.0	14	11	1,200	---	---	---	---	---	---	---	---	164.06	9.00	155.06	---	---	---
MW-4 (D)	07/08/1997	640	81	<5.0	16	19	1,600	---	---	---	---	---	---	---	---	164.06	9.00	155.06	---	---	---
MW-4	10/08/1997	<500	40	<5.0	7.4	5.4	1,400	---	---	---	---	---	---	---	---	164.06	8.97	155.09	---	---	---
MW-4 (D)	10/08/1997	<500	36	<5.0	5.9	<5.0	1,400	---	---	---	---	---	---	---	---	164.06	8.97	155.09	---	---	---
MW-4	01/08/1998	<1,000	55	<10	13	<10	2,000	---	---	---	---	---	---	---	---	164.06	7.90	156.16	---	---	---
MW-4	04/13/1998	350	110	2.4	20	26	<2.5	---	---	---	---	---	---	---	---	164.06	7.35	156.71	---	---	---
MW-4	07/17/1998	210	66	0.78	5.4	9.8	1,700	---	---	---	---	---	---	---	---	164.06	6.95	157.11	---	---	---
MW-4	10/02/1998	<50	0.69	<0.50	<0.50	<0.50	2,900	---	---	---	---	---	---	---	---	164.06	7.35	156.71	---	---	---
MW-4	02/03/1999	560	120	2.5	29	34	6,800	---	---	---	---	---	---	---	---	164.06	7.71	156.35	---	0.9	---
MW-4	04/29/1999	390	80	1.9	13	19	7,000	8,360	---	---	---	---	---	---	---	164.06	7.83	156.23	---	1.1	-125
MW-4	07/23/1999	460	93.6	8.40	25.2	28.8	3,760	6,000 f	---	---	---	---	---	---	---	164.06	11.33	152.73	---	0.9	---
MW-4	11/01/1999	77.3	0.520	<0.500	<0.500	<0.500	539	---	---	---	---	---	---	---	---	164.06	10.66	153.40	---	2.8	3
MW-4	01/17/2000	160	27	<0.50	12	6.3	12,000	---	---	---	---	---	---	---	---	164.06	10.15	153.91	---	3.9	-17
MW-4	04/17/2000	<500	26	6.38	9.35	10.4	9,070	---	---	---	---	---	---	---	---	164.06	10.10	153.96	---	1.7	-129
MW-4	07/26/2000	<500	22.7	<5.00	7.59	6.96	7,660	---	---	---	---	---	---	---	---	164.06	10.09	153.97	---	1.4	-137
MW-4	10/12/2000	172	19.8	<0.500	7.47	4.50	8,290	---	---	---	---	---	---	---	---	164.06	9.35	154.71	---	3.5	529
MW-4	01/15/2001	53.6	1.50	<0.500	2.45	1.80	9,260	---	---	---	---	---	---	---	---	164.06	8.77	155.29	---	2.3	53
MW-4	04/09/2001	<500	<5.00	<5.00	<5.00	5.52	10,300	---	---	---	---	---	---	---	---	164.06	7.75	156.31	---	1.0	-133
MW-4	07/24/2001	58	3.8	<0.50	3.2	2.9	---	1,700	---	---	---	---	---	---	---	164.06	10.07	153.99	---	0.5	106
MW-4	10/31/2001	<1,000	<10	<10	<10	<10	---	7,400	---	---	---	---	---	---	---	164.06	9.97	154.09	---	0.8	22
MW-4	01/10/2002	<2,000	<20	<20	<20	<20	---	12,000	---	---	---	---	---	---	---	164.06	8.53	155.53	---	8.9	224
MW-4	04/25/2002	<2,000	<20	<20	<20	<20	---	7,900	---	---	---	---	---	---	---	164.06	7.33	156.73	---	3.6	-84
MW-4	07/18/2002	<2,000	<20	<20	<20	<20	---	7,200	---	---	---	---	---	---	---	164.06	9.05	155.01	---	1.7	120
MW-4	10/07/2002	<1,000	<10	<10	<10	<10	---	3,300	---	---	---	---	---	---	---	164.03	9.06	154.97	---	2.5	33
MW-4	01/06/2003	<500	21	<5.0	<5.0	<5.0	---	2,500	---	---	---	---	---	---	---	164.03	7.09	156.94	---	0.5	55
MW-4	04/07/2003	<2,500	<25	<25	<25	<50	---	1,700	5,900	---	---	---	---	---	---	164.03	8.26	155.77	---	1.2	69
MW-4	07/07/2003	<2,500	<25	<25	<25	<50	---	860	6,900	---	---	---	---	---	---	164.03	8.92	155.11	---	0.5	-3
MW-4	10/09/2003	<500	<5.0	<5.0	<5.0	<10	---	420	6,700	---	---	---	---	---	---	164.03	8.91	155.12	---	0.7	171
MW-4	01/14/2004	<1,000	24	<10	<10	<20	---	500	7,200	---	---	---	---	---	---	164.03	8.34	155.69	---	1.2	140
MW-4	04/28/2004	<500	6.0	<5.0	<5.0	<10	---	310	5,200	---	---	---	---	---	---	164.03	7.55	156.48	---	0.4	69

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 (mg/L)	ORP Reading (mV)
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 h	36	33.2 h	---	130	6,000	<20	<20	<20	---	---	<1,000	164.03	7.85	156.18	---	---	---
MW-4	10/08/2007	840 g	100	23	70	120	---	120	5,300	---	---	---	---	---	---	164.03	8.50	155.53	---	---	---
MW-4	01/09/2008	2,200 g	130	38	130	264	---	160	5,400	---	---	---	---	---	---	164.03	8.33	155.70	---	---	---
MW-4	04/04/2008	1,700	93	24	74	145	---	110	3,700	---	---	---	---	---	---	164.03	6.63	157.40	---	---	---
MW-4	07/03/2008	1,400	87	15	54	109	---	88	3,900	<20	<20	<20	---	---	<1,000	164.03	8.25	155.78	---	---	---
MW-4	10/03/2008	1,000	61	12	41	78	---	84	3,700	---	---	---	---	---	---	164.03	8.54	155.49	---	---	---
MW-4	01/22/2009	800	26	5.4	14	26	---	81	4,100	---	---	---	---	---	---	164.03	7.40	156.63	---	---	---
MW-4	04/13/2009	2,000	100	26	64	130	---	69	3,200	---	---	---	---	---	---	164.03	6.91	157.12	---	---	---
MW-4	07/23/2009	1,500	180	54	86	200	---	85	2,500	<10	<10	<10	---	---	<500	164.03	7.97	156.06	---	---	---
MW-4	02/01/2010	1,400	120	44	57	120	---	81	2,900	---	---	---	---	---	---	164.03	6.05	157.98	---	---	---
MW-4	08/02/2010	340,000	5,300	5,800	7,700	26,000	---	62	1,800	---	---	---	---	---	---	164.03	6.48	157.65	0.12	---	---
MW-4	01/31/2011	9,700	47	62	340	1,100	---	77	1,300	---	---	---	<5.0	<5.0	---	164.03	6.67	157.36	---	---	---
MW-4	04/26/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	8.73	155.30	0.00	---	---
MW-4	07/25/2011	94,000	2,800	2,900	3,800	12,000	---	<100	<1,000	<100	<100	<100	---	---	<15,000	164.03	7.27	156.76	0.00	---	---
MW-4	10/13/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	7.57	156.46	0.00	---	---
MW-4	01/23/2012	6,100	83	61	230	510	---	46	150	---	---	---	---	---	---	164.03	5.82	158.21	0.00	---	---
MW-4	04/23/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	6.50	157.53	0.00	---	---
MW-4	07/24/2012	5,400	95	33	160	410	---	42	67	<2.5	<2.5	<2.5	---	---	---	164.03	7.19	156.84	0.00	---	---
MW-4	11/07/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	6.96	157.07	0.00	---	---
MW-4	01/23/2013	31,000	110	190	950	3,400	---	33	<500	---	---	---	---	---	---	164.03	6.75	157.28	0.00	---	---
MW-4	04/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	7.11	156.92	0.00	---	---
MW-4	07/10/2013	9,000	63	24	180	600	---	34	<100	<5.0	<5.0	<5.0	---	---	<1,500	164.03	7.15	156.88	0.00	---	---
MW-4	10/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	8.36	155.67	---	---	---

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 (mg/L)	ORP Reading (mV)
MW-4	01/16/2014	10,000	150	100	430	1,300	---	30	<100	---	---	---	---	---	---	164.03	8.41	155.62	---	---	---
MW-4	04/29/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	7.49	156.54	0.00	---	---
MW-4	07/10/2014	9,700	120	130	660	2,000	---	33	<100	<5.0	<5.0	<5.0	---	---	<1,500	164.03	8.28	155.75	0.00	---	---
MW-4	10/14/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	164.03	9.54	154.49	0.00	---	---
MW-4	01/27/2015	8,300	73	43	350	1,100	---	35	<50	---	---	---	---	---	---	164.03	6.90	157.13	0.00	---	---
MW-4	**07/21/2015**	**12,000**	**37**	**19**	**280**	**820**	**---**	**31**	**<100**	**<5.0**	**<5.0**	**<5.0**	**---**	**---**	**<1,500**	**164.03**	**8.03**	**156.00**	**---**	**---**	**---**
MW-5	01/04/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.62	---	---	---	---
MW-5	01/10/2002	<50	<0.50	<0.50	<0.50	<0.50	---	110	---	---	---	---	---	---	---	164.06	5.88	158.18	---	3.3	172
MW-5	04/25/2002	<50	<0.50	<0.50	<0.50	<0.50	---	73	---	---	---	---	---	---	---	164.06	6.81	157.25	---	0.3	-44
MW-5	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	---	75	---	---	---	---	---	---	---	164.06	7.38	156.68	---	0.4	170
MW-5	10/07/2002	<50	<0.50	<0.50	<0.50	<0.50	---	41	---	---	---	---	---	---	---	164.14	6.75	157.39	---	1.5	16
MW-5	01/06/2003	<50	<0.50	<0.50	<0.50	<0.50	---	81	---	---	---	---	---	---	---	164.14	5.96	158.18	---	0.6	166
MW-5	04/07/2003	<50	<0.50	<0.50	<0.50	<1.0	---	77	28	---	---	---	---	---	---	164.14	6.51	157.63	---	0.8	174
MW-5	07/07/2003	<50	<0.50	<0.50	<0.50	<1.0	---	32	23	---	---	---	---	---	---	164.14	6.44	157.70	---	0.3	-17
MW-5	10/09/2003	<50	<0.50	<0.50	<0.50	<1.0	---	59	40	---	---	---	---	---	---	164.14	7.05	157.09	---	0.9	17
MW-5	01/14/2004	<50	<0.50	0.76	<0.50	<1.0	---	47	17	---	---	---	---	---	---	164.14	6.29	157.85	---	1.6	209
MW-5	04/28/2004	<50	<0.50	<0.50	<0.50	<1.0	---	31	11	---	---	---	---	---	---	164.14	6.84	157.30	---	0.4	136
MW-5	07/12/2004	<50	<0.50	<0.50	<0.50	<1.0	---	47	12	<2.0	<2.0	<2.0	---	---	<50	164.14	7.57	156.57	---	0.4	90
MW-5	10/25/2004	<50	<0.50	<0.50	<0.50	<1.0	---	41	13	---	---	---	---	---	---	164.14	6.50	157.64	---	1.74	-21
MW-5	01/17/2005	<50	<0.50	<0.50	<0.50	<1.0	---	41	12	---	---	---	---	---	---	164.14	5.83	158.31	---	0.1	-7
MW-5	04/06/2005	<50	<0.50	<0.50	<0.50	<1.0	---	12	<5.0	---	---	---	---	---	---	164.14	5.91	158.23	---	1.05	-62
MW-5	07/08/2005	<50	<0.50	<0.50	<0.50	<0.50	---	26	18	<0.50	<0.50	<0.50	---	---	<5.0	164.14	6.78	157.36	---	1.2	81
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 c,g	<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 h	<1.0	<1.0	<1.0	---	11	7.6 h	---	---	---	---	---	---	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	---	---	---

Groundwater Data
Former Shell Service Station
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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 (mg/L)	ORP Reading (mV)
MW-5	01/22/2009	<50	<0.50	<1.0	<1.0	<1.0	---	9.2	<10	---	---	---	---	---	---	164.14	6.30	157.84	---	---	---
MW-5	04/13/2009	<50	<0.50	<1.0	<1.0	<1.0	---	8.4	<10	---	---	---	---	---	---	164.14	6.42	157.72	---	---	---
MW-5	07/23/2009	<50	<0.50	<1.0	<1.0	<1.0	---	15	<10	<2.0	<2.0	<2.0	---	---	<100	164.14	7.60	156.54	---	---	---
MW-5	02/01/2010	<50	<0.50	<1.0	<1.0	<1.0	---	9.0	<10	---	---	---	---	---	---	164.14	5.80	158.34	---	---	---
MW-5	08/02/2010	<50	<0.50	<1.0	<1.0	<1.0	---	7.5	<10	---	---	---	---	---	---	164.14	7.00	157.14	---	---	---
MW-5	01/31/2011	<50	<0.50	<0.50	<0.50	<1.0	---	7.5	<10	---	---	---	<0.50	<0.50	---	164.14	5.79	158.35	---	---	---
MW-5	07/25/2011	Unable to locate		---	---	---	---	---	---	---	---	---	---	---	---	164.14	---	---	---	---	---
MW-5	01/23/2012	<50	<0.50	<0.50	<0.50	<1.0	---	5.7	<10	---	---	---	---	---	---	164.14	5.40	158.74	---	---	---
MW-5	07/24/2012	<50	<0.50	<0.50	<0.50	<1.0	---	9.0	<10	<0.50	<0.50	<0.50	---	---	---	164.14	6.45	157.69	---	---	---
MW-5	01/23/2013	<50	<0.50	<0.50	<0.50	<1.0	---	6.0	<10	---	---	---	---	---	---	164.14	6.32	157.82	---	---	---
MW-5	07/10/2013	<50	<0.50	<0.50	<0.50	<1.0	---	6.8	<10	<0.50	<0.50	<0.50	---	---	<150	164.14	6.68	157.46	---	---	---
MW-5	01/16/2014	<50	<0.50	<0.50	<0.50	<1.0	---	2.5	<10	---	---	---	---	---	---	164.14	7.86	156.28	---	---	---
MW-5	07/10/2014	<50	<0.50	<0.50	<0.50	<1.0	---	6.0	<10	<0.50	<0.50	<0.50	---	---	<150	164.14	7.66	156.48	---	---	---
MW-5	01/27/2015	<50	<0.50	<0.50	<0.50	<1.0	---	2.9	<10	---	---	---	---	---	---	164.14	6.47	157.67	---	---	---
MW-5	**07/21/2015**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**3.0**	**<10**	**<0.50**	**<0.50**	**<0.50**	**---**	**---**	**<150**	**164.14**	**7.94**	**156.20**	**---**	**---**	**---**
MW-6	06/26/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	169.89	10.25	159.64	---	---	---
MW-6	07/28/2006	19,200	1,290	41.7	141	245	---	777	8,340	3.37	<0.500	<0.500	---	---	<50.0	169.89	11.00	158.89	---	---	---
MW-6	10/27/2006	11,400	1,250	41.0	155	242	---	569	7,270	---	---	---	---	---	---	169.89	11.41	158.48	---	---	---
MW-6	01/10/2007	7,000	1,000	26	270	240	---	770	17,000	---	---	---	---	---	---	169.89	9.43	160.46	---	---	---
MW-6	04/13/2007	4,200 g	820	22	72	71	---	490	9,500	---	---	---	---	---	---	169.89	9.81	160.08	---	---	---
MW-6	07/09/2007	6,100 g	960	23	65	116	---	280	8,400	<40	<40	<40	---	---	<2,000	169.89	10.80	159.09	---	---	---
MW-6	10/08/2007	3,600 g	960	17 h	27	76 h	---	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 h	31	19 h	---	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-6	01/23/2012	2,100	300	5.3	5.1	13	---	61	3,100	---	---	---	---	---	---	169.89	8.18	161.71	---	---	---

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 (mg/L)	ORP Reading (mV)
MW-6	07/24/2012	3,400	510	8.8	5.8	14	---	110	5,100	<5.0	<5.0	<5.0	---	---	---	169.89	10.01	159.88	---	---	---
MW-6	01/23/2013	2,400	260	5.4	30	15	---	110	4,600	---	---	---	---	---	---	169.89	9.62	160.27	---	---	---
MW-6	07/10/2013	3,000	390	6.3	<5.0	12	---	110	4,300	<5.0	<5.0	<5.0	---	---	<1,500	169.89	9.94	159.95	---	---	---
MW-6	01/16/2014	3,500	500	9.3	9.0	14	---	64	3,900	---	---	---	---	---	---	169.89	11.10	158.79	---	---	---
MW-6	07/10/2014	3,300	400	9.4	8.7	26	---	150	5,200	<5.0	<5.0	<5.0	---	---	<1,500	169.89	11.11	158.78	---	---	---
MW-6	01/27/2015	3,300	400	8.4	9.7	15	---	67	3,600	---	---	---	---	---	---	169.89	9.91	159.98	---	---	---
MW-6	**07/21/2015**	**4,700**	**680**	**9.2**	**<5.0**	**14**	**---**	**73**	**4,400**	**<5.0**	**<5.0**	**<5.0**	**---**	**---**	**<1,500**	**169.89**	**11.03**	**158.86**	**---**	**---**	**---**
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 c,g	54	<20	18 h	23.5 h	---	2,500	3,800	---	---	---	---	---	---	170.87	8.25	162.62	---	---	---
MW-7	07/09/2007	1,100 g	41	<20	8.8 h	4.5 h	---	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 c	8.8	<2.5	3.8	5.8	---	500	480	<5.0	<5.0	<5.0	---	---	<750	170.87	8.11	162.76	---	---	---
MW-7	01/23/2012	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	170.87	---	---	---	---	---
MW-7	07/24/2012	610	9.2	<2.5	<2.5	6.6	---	540	600	<2.5	<2.5	<2.5	---	---	---	170.87	8.30	162.57	---	---	---
MW-7	01/23/2013	700	26	<5.0	<5.0	15	---	520	640	---	---	---	---	---	---	170.87	7.79	163.08	---	---	---
MW-7	07/10/2013	710	10	<5.0	<5.0	<10	---	550	520	<5.0	<5.0	<5.0	---	---	<1,500	170.87	8.37	162.50	---	---	---
MW-7	01/16/2014	<500	<5.0	<5.0	<5.0	<10	---	170	<100	---	---	---	---	---	---	170.87	9.13	161.74	---	---	---
MW-7	07/10/2014	590 i	11	<2.5	<2.5	5.4	---	500	490	<2.5	<2.5	<2.5	---	---	<750	170.87	8.82	162.05	---	---	---
MW-7	01/27/2015	510 i	9.6	<2.5	<2.5	<5.0	---	310	350	---	---	---	---	---	---	170.87	7.95	162.92	---	---	---
MW-7	**07/21/2015**	**260 i**	**3.2**	**<2.5**	**<2.5**	**<5.0**	**---**	**220**	**320**	**<2.5**	**<2.5**	**<2.5**	**---**	**---**	**<750**	**170.87**	**8.79**	**162.08**	**---**	**---**	**---**

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 (mg/L)	ORP Reading (mV)
MW-8	06/26/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	174.13	4.53	169.60	---	---	---
MW-8	07/28/2006	2,300	<0.500	<0.500	<0.500	<0.500	---	1,380	<10.0	<0.500	<0.500	0.950	---	---	<50.0	174.13	4.55	169.58	---	---	---
MW-8	10/27/2006	1,570	2.79 e	<0.500	<0.500	<0.500	---	1,280 e	<10.0	---	---	---	---	---	---	174.13	4.87	169.26	---	---	---
MW-8	01/10/2007	540	<2.5	<2.5	<2.5	<5.0	---	1,200 f	750	---	---	---	---	---	---	174.13	4.17	169.96	---	---	---
MW-8	04/13/2007	450 c,g	<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 c,g	<5.0	<10	<10	<10	---	1,200	<100	---	---	---	---	---	---	174.13	5.63	168.50	---	---	---
MW-8	01/09/2008	200 c,g	<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 c	<2.0	<2.0	<2.0	<4.0	---	350	<40	<4.0	<4.0	<4.0	---	---	<600	174.13	4.56	169.57	---	---	---
MW-8	01/23/2012	<250	<2.5	<2.5	<2.5	<5.0	---	320	98	---	---	---	---	---	---	174.13	4.49	169.64	---	---	---
MW-8	07/24/2012	350	<2.5	<2.5	<2.5	<5.0	---	330	<50	<2.5	<2.5	<2.5	---	---	---	174.13	4.85	169.28	---	---	---
MW-8	01/23/2013	290	<2.5	<2.5	<2.5	<5.0	---	270	100	---	---	---	---	---	---	174.13	4.25	169.88	---	---	---
MW-8	07/10/2013	290	<2.5	<2.5	<2.5	<5.0	---	250	<50	<2.5	<2.5	<2.5	---	---	<750	174.13	4.95	169.18	---	---	---
MW-8	01/16/2014	<250	<2.5	<2.5	<2.5	<5.0	---	230	<50	---	---	---	---	---	---	174.13	5.60	168.53	---	---	---
MW-8	07/10/2014	<250	<2.5	<2.5	<2.5	<5.0	---	210	<50	<2.5	<2.5	<2.5	---	---	<750	174.13	4.92	169.21	---	---	---
MW-8	01/27/2015	280 i	<2.5	<2.5	<2.5	<5.0	---	150	<50	---	---	---	---	---	---	174.13	4.45	169.68	---	---	---
MW-8	**07/21/2015**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**41**	**<10**	**<0.50**	**<0.50**	**<0.50**	**---**	**---**	**<150**	**174.13**	**5.15**	**168.98**	**---**	**---**	**---**
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 c,g	390	4.1 h	8.6 h	4.7 h	---	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 c,g	9.1 h	<25	<25	<25	---	2,500	<250	---	---	---	---	---	---	175.20	7.58	167.62	---	---	---
MW-9	01/09/2008	350 c,g	3.4 h	<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	---	---	---

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 (mg/L)	ORP Reading (mV)
MW-9	07/03/2008	2,600	70	<10	<10	<10	---	2,800	<100	<20	<20	<20	---	---	<1,000	175.20	7.00	168.20	---	---	---
MW-9	10/03/2008	2,600	160	<20	<20	<20	---	2,400	<200	---	---	---	---	---	---	175.20	7.39	167.81	---	---	---
MW-9	01/22/2009	2,900	130	<20	<20	30	---	1,900	<200	---	---	---	---	---	---	175.20	7.00	168.20	---	---	---
MW-9	04/13/2009	5,200	590	24	60	89	---	1,600	230	---	---	---	---	---	---	175.20	6.47	168.73	---	---	---
MW-9	07/23/2009	6,300	830	30	150	130	---	3,200	170	<20	<20	<20	---	---	<1000	175.20	7.05	168.15	---	---	---
MW-9	02/01/2010	18,000	1,900	130	770	1,200	---	2,400	430	---	---	---	---	---	---	175.20	5.70	169.50	---	---	---
MW-9	08/02/2010	2,200	270	<10	99	36	---	1,200	280	---	---	---	---	---	---	175.20	6.50	168.70	---	---	---
MW-9	01/31/2011	1,100	120	9.5	60	63	---	1,100	1,000	---	---	---	<5.0	<5.0	---	175.20	6.21	168.99	---	---	---
MW-9	07/25/2011	1,200	210	<5.0	67	15	---	710	480	<10	<10	<10	---	---	<1,500	175.20	6.53	168.67	---	---	---
MW-9	01/23/2012	390	9.9	<1.0	4.7	5.8	---	460	370	---	---	---	---	---	---	175.20	6.49	168.71	---	---	---
MW-9	07/24/2012	970	91	<5.0	15	<10	---	660	530	<5.0	<5.0	<5.0	---	---	---	175.20	6.95	168.25	---	---	---
MW-9	01/23/2013	940	84	<5.0	20	<10	---	640	540	---	---	---	---	---	---	175.20	6.24	168.96	---	---	---
MW-9	07/10/2013	540	10	<5.0	<5.0	<10	---	360	290	<5.0	<5.0	<5.0	---	---	<1,500	175.20	7.09	168.11	---	---	---
MW-9	01/16/2014	240 i	<1.3	<1.3	<1.3	<2.5	---	250	170	---	---	---	---	---	---	175.20	7.70	167.50	---	---	---
MW-9	07/10/2014	340 i	<1.0	<1.0	<1.0	<2.0	---	350	94	<1.0	<1.0	<1.0	---	---	<300	175.20	7.12	168.08	---	---	---
MW-9	01/27/2015	140 i	<1.0	<1.0	<1.0	<2.0	---	86	97	---	---	---	---	---	---	175.20	6.61	168.59	---	---	---
MW-9	**07/21/2015**	**310 i**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**---**	**300**	**52**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**<300**	**175.20**	**7.32**	**167.88**	**---**	**---**	**---**
TB-1	04/29/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6.00	---	---	3.8	-132
TB-1	11/01/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	12.65	---	---	0.2	-165
TB-1	01/17/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.72	---	---	0.8	-178
TB-1	04/17/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.65	---	---	0.5	-152
TB-1	07/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.13	---	---	1.0	-124
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

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 (mg/L)	ORP Reading (mV)
TB-2	01/17/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.79	---	---	0.7	-162
TB-2	04/17/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.75	---	---	0.9	-121
TB-2	07/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.73	---	---	0.9	-85
TB-2	10/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.05	---	---	0.6	-47
TB-2	01/15/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.87	---	---	0.7	-91
TB-2	04/09/2001	46,600	1,240	1,310	1,110	12,100	31,300	---	---	---	---	---	---	---	---	---	3.76	---	---	0.8	-24
TB-2	07/24/2001	11,000	630	<25	310	200	---	11,000	---	---	---	---	---	---	---	---	4.75	---	---	0.4	-51
TB-2	10/31/2001	7,500	530	1,500	100	500	---	2,500	---	---	---	---	---	---	---	---	4.24	---	---	0.6	-7
TB-2	01/10/2002	<5,000	480	47	34	110	---	12,000	---	---	---	---	---	---	---	---	6.26	---	---	1.3	-81
TB-2	04/25/2002	4,700	470	140	<20	80	---	7,400	---	---	---	---	---	---	---	---	11.78	---	---	0.9	-107
TB-2	07/18/2002	7,500	630	650	<25	390	---	44,000	---	---	---	---	---	---	---	---	12.34	---	---	0.9	-67
TB-2	10/07/2002	<10,000	580	<100	<100	180	---	30,000	---	---	---	---	---	---	---	---	11.62	---	---	1.0	-41
TB-2	01/06/2003	120	4.8	<0.50	<0.50	2.0	---	220	---	---	---	---	---	---	---	---	4.35	---	---	0.5	-515

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8015 unless otherwise noted.
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary-butyl ether analyzed by method as noted
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
Ethanol analyzed by EPA Method 8260B
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
mg/L = Milligrams per liter
mV = Millivolts
<x = Not detected at reporting limit x

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 (mg/L)	ORP Reading (mV)

--- = Not analyzed or not available
(D) = Duplicate sample

a = Groundwater surface had a sheen when sampled.
b = MTBE value is estimated by laboratory
c = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.
d = Secondary ion abundances were outside method requirements. Identification based on analytical judgment.
e = pH>2
f = Sample analyzed outside the EPA recommended holding time.
g = Analyzed by EPA Method 8015B (M).
h = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
i = TPHg concentration is due to the presence of a discrete peak of MTBE.

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

Table 2

Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station
4255 MacArthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	SPHs removed by bailer/ skimmer (ml)	SPHs removed by bailer/ skimmer (pounds)	SPHs removed by bailer/ skimmer (pounds)	Sock initial weight (pounds)	Sock final weight (pounds)	SPHs removed by socks (pounds)	Cumulative SPHs removed by socks (pounds)
MW-2	07/25/1995	---	---	0.52	1279	0	0.00	0.00	---	---	---	0.00
MW-2	08/10/1995	---	---	0.56	1378	2,000	3.28	3.28	---	---	---	0.00
MW-2	10/18/1995	---	---	0.13	320	0	0.00	3.28	---	---	---	0.00
MW-2	01/17/1996	---	---	0.17	418	1,000	1.64	4.93	---	---	---	0.00
MW-2	04/25/1996	---	---	0.03	74	400	0.66	5.58	---	---	---	0.00
MW-2	07/17/1996	---	---	0.48	1181	1,200	1.97	7.55	---	---	---	0.00
MW-2	10/01/1996	---	---	0.28	689	500	0.82	8.37	---	---	---	0.00
MW-2	01/22/1997	---	---	0.11	271	300	0.49	8.87	---	---	---	0.00
MW-2	04/08/1997	---	---	0.20	492	600	0.99	9.85	---	---	---	0.00
MW-2	07/08/1997	---	---	0.19	467	600	0.99	10.84	---	---	---	0.00
MW-2	10/08/1997	---	---	0.05	123	500	0.82	11.66	---	---	---	0.00
MW-2	01/08/1998	---	---	0.08	197	800	1.31	12.97	---	---	---	0.00
MW-2	04/13/1998	---	10	0.00	0	10	0.02	12.99	---	---	---	0.00
MW-2	07/17/1998	---	---	0.10	246	500	0.82	13.81	---	---	---	0.00
MW-2	10/02/1998	---	---	0.11	271	500	0.82	14.63	---	---	---	0.00
MW-2	02/03/1999	---	---	0.08	197	150	0.25	14.88	---	---	---	0.00
MW-2	04/29/1999	---	---	0.05	123	200	0.33	15.21	---	---	---	0.00
MW-2	07/23/1999	---	---	0.00	0	0	0.00	15.21	---	---	---	0.00
MW-2	11/01/1999	---	20	0.03	74	35	0.06	15.26	---	---	---	0.00
MW-2	01/17/2000	---	200	0.00	0	200	0.33	15.59	---	---	---	0.00
MW-2	04/17/2000	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	07/26/2000	---	0	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	10/12/2000	---	0	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	01/15/2001	---	0	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	04/09/2001	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	07/24/2001	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	10/31/2001	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	01/10/2002	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	04/25/2002	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	10/07/2002	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	01/06/2003	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00

Table 2

Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station
4255 MacArthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	SPHs removed by bailer/ skimmer (ml)	SPHs removed by bailer/ skimmer (pounds)	SPHs removed by bailer/ skimmer (pounds)	Sock initial weight (pounds)	Sock final weight (pounds)	SPHs removed by socks (pounds)	Cumulative SPHs removed by socks (pounds)
MW-2	04/07/2003	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	07/07/2003	---	---	0.00	0	0	0.00	15.59	---	---	---	0.00
MW-2	10/09/2003	---	---	0.03	74	0	0.00	15.59	---	---	---	0.00
MW-2	10/20/2003	---	---	0.04	98	100	0.16	15.76	---	---	---	0.00
MW-2	01/14/2004	---	---	0.01	25	25	0.04	15.80	---	---	---	0.00
MW-2	04/28/2004	---	---	0.00	0	0	0.00	15.80	---	---	---	0.00
MW-2	07/12/2004	---	---	0.03	74	73	0.12	15.92	---	---	---	0.00
MW-2	10/25/2004	---	---	0.01	25	15	0.02	15.94	---	---	---	0.00
MW-2	01/17/2005	---	---	0.00	0	0	0.00	15.94	---	---	---	0.00
MW-2	04/06/2005	---	---	0.00	0	0	0.00	15.94	---	---	---	0.00
MW-2	07/08/2005	---	---	0.02	49	49	0.08	16.02	---	---	---	0.00
MW-2	10/07/2005	---	---	0.02	49	250	0.41	16.43	---	---	---	0.00
MW-2	01/27/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	03/16/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	04/28/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	05/15/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	07/28/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	08/31/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	09/26/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	10/27/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	11/22/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	12/26/2006	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	01/10/2007	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	02/19/2007	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	03/16/2007	---	---	0.00	0	0	0.00	16.43	---	---	---	0.00
MW-2	04/13/2007	---	---	0.02	49	49	0.08	16.51	---	---	---	0.00
MW-2	07/09/2007	---	---	0.11	271	271	0.45	16.96	---	---	---	0.00
MW-2	10/08/2007	---	---	0.19	467	467	0.77	17.72	---	---	---	0.00
MW-2	01/09/2008	Well inaccessible		---	---	0	0.00	17.72	---	---	---	0.00
MW-2	02/21/2008	---	---	0.00	0	0	0.00	17.72	---	---	---	0.00
MW-2	03/20/2008	---	---	0.02	49	49	0.08	17.81	---	---	---	0.00

Table 2

Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station
4255 MacArthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	SPHs removed by bailer/ skimmer (ml)	SPHs removed by bailer/ skimmer (pounds)	SPHs removed by bailer/ skimmer (pounds)	Sock initial weight (pounds)	Sock final weight (pounds)	SPHs removed by socks (pounds)	Cumulative SPHs removed by socks (pounds)
MW-2	04/04/2008	Well inaccessible		---	---	0	0.00	17.81	---	---	---	0.00
MW-2	05/27/2008	---	---	0.03	74	73	0.12	17.92	---	---	---	0.00
MW-2	06/11/2008	---	---	0.09	221	221	0.36	18.29	---	---	---	0.00
MW-2	07/03/2008	---	---	0.14	344	344	0.56	18.85	---	---	---	0.00
MW-2	08/04/2008	---	---	0.06	148	150	0.25	19.10	---	---	---	0.00
MW-2	09/17/2008	Well inaccessible		---	---	0	0.00	19.10	---	---	---	0.00
MW-2	10/03/2008	---	---	0.26	640	640	1.05	20.15	---	---	---	0.00
MW-2	11/26/2008	Well inaccessible		---	---	0	0.00	20.15	---	---	---	0.00
MW-2	12/30/2008	Well inaccessible		---	---	0	0.00	20.15	---	---	---	0.00
MW-2	01/22/2009	---	---	0.00	0	0	0.00	20.15	---	---	---	0.00
MW-2	02/27/2009	Well inaccessible		---	---	0	0.00	20.15	---	---	---	0.00
MW-2	04/13/2009	---	---	0.01	25	0	0.00	20.15	---	---	---	0.00
MW-2	07/23/2009	---	---	0.20	492	492	0.81	20.96	---	---	---	0.00
MW-2	11/10/2009	---	---	0.04	98	242	0.40	21.36	---	---	---	0.00
MW-2	02/01/2010	Well inaccessible		---	---	0	0.00	21.36	---	---	---	0.00
MW-2	02/09/2010	Well inaccessible		---	---	0	0.00	21.36	---	---	---	0.00
MW-2	06/29/2010	0.00	0.0	0.00	0	0	0.00	21.36	---	---	---	0.00
MW-2	07/06/2010	0.00	0.0	0.01	25	0	0.00	21.36	---	---	---	0.00
MW-2	07/13/2010	0.01	6.2	0.02	49	0.51	0.00	21.36	---	---	---	0.00
MW-2	07/20/2010	0.125	6.4	0.01	25	77	0.13	21.48	---	---	---	0.00
MW-2	07/27/2010	0.02	1.0	0.03	74	1.0	0.00	21.48	---	---	---	0.00
MW-2	08/02/2010	0.04	50	0.04	98	148	0.24	21.73	---	---	---	0.00
MW-2	08/10/2010	0.51	26	0.04	98	26	0.04	21.77	---	---	---	0.00
MW-2	08/24/2010	0.02	1.0	0.07	172	1	0.00	21.77	---	---	---	0.00
MW-2	09/07/2010	0.02	1.0	0.06	148	30	0.05	21.82	---	---	---	0.00
MW-2	10/05/2010	0.02	1.0	0.07	172	145	0.24	22.06	---	---	---	0.00
MW-2	11/02/2010	0.02	1.0	0.17	418	80	0.13	22.19	---	---	---	0.00
MW-2	12/07/2010	0.03	1.5	0.01	25	28	0.05	22.24	---	---	---	0.00
MW-2	01/31/2011	---	---	0.00	0	0	0.00	22.24	---	---	---	0.00
MW-2	02/17/2011	---	---	0.01	25	0	0.00	22.24	---	---	---	0.00
MW-2	04/26/2011	---	---	0.00	0	0	0.00	22.24	0.68	1.19	0.51	0.51

Table 2

Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station
4255 MacArthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	SPHs removed by bailer/ skimmer (ml)	SPHs removed by bailer/ skimmer (pounds)	SPHs removed by bailer/ skimmer (pounds)	Sock initial weight (pounds)	Sock final weight (pounds)	SPHs removed by socks (pounds)	Cumulative SPHs removed by socks (pounds)
MW-2	07/25/2011	---	---	0.00	0	0	0.00	22.24	0.64	1.01	0.37	0.88
MW-2	10/13/2011	---	---	0.00	0	0	0.00	22.24	0.66	1.56	0.90	1.78
MW-2	01/23/2012	---	---	0.00	0	0	0.00	22.24	0.62	0.86	0.24	2.02
MW-2	04/23/2012	---	---	0.00	0	0	0.00	22.24	0.33	1.60	1.27	3.29
MW-2	07/24/2012	---	---	0.00	0	0	0.00	22.24	0.54	1.22	0.68	3.97
MW-2	11/07/2012	---	---	0.00	0	0	0.00	22.24	0.68	1.60	0.92	4.89
MW-2	01/23/2013	---	---	0.00	0	0	0.00	22.24	0.66	1.88	1.22	6.11
MW-2	04/01/2013	---	---	0.00	0	0	0.00	22.24	0.64	1.14	0.50	6.61
MW-2	07/10/2013	---	---	0.00	0	0	0.00	22.24	0.60	1.28	0.68	7.29
MW-2	10/01/2013	---	---	0.00	0	0	0.00	22.24	0.66	1.28	0.62	7.91
MW-2	01/16/2014	---	---	0.00	0	0	0.00	22.24	0.88	1.42	0.54	8.45
MW-2	04/29/2014	---	---	0.00	0	0	0.00	22.24	0.72	2.14	1.42	9.87
MW-2	07/10/2014	---	---	0.00	0	0	0.00	22.24	0.74	1.03	0.29	10.16
MW-2	10/14/2014	Well inaccessible		---	---	0	0.00	22.24	---	---	0.00	10.16
MW-2	01/27/2015	---	---	0.02	49	0	0.00	22.24	0.74	2.44	1.70	11.86
MW-2	**07/21/2015**	**---**	**---**	**0.07**	**200**	**200**	**0.33**	**22.56**	**0.80**	**---**	**---**	**11.86**
MW-3	07/07/1994	---	---	0.02	49	250	0.41	0.41	---	---	---	0.00
MW-3	10/27/1994	---	---	0.05	123	400	0.66	1.07	---	---	---	0.00
MW-3	01/13/1995	---	15	---	---	15	0.02	1.09	---	---	---	0.00
MW-3	04/12/1995	---	---	---	---	0	0.00	1.09	---	---	---	0.00
MW-3	07/25/1995	---	---	0.06	148	0	0.00	1.09	---	---	---	0.00
MW-3	08/10/1995	---	---	0.05	123	50	0.08	1.17	---	---	---	0.00
MW-3	10/18/1995	---	---	0.05	123	0	0.00	1.17	---	---	---	0.00
MW-3	01/17/1996	---	---	0.24	590	1500	2.46	3.64	---	---	---	0.00
MW-3	04/25/1996	---	---	0.02	49	200	0.33	3.97	---	---	---	0.00
MW-3	07/17/1996	---	---	0.03	74	400	0.66	4.62	---	---	---	0.00
MW-3	10/01/1996	---	---	0.00	0	0	0.00	4.62	---	---	---	0.00
MW-3	01/22/1997	---	---	0.00	0	0	0.00	4.62	---	---	---	0.00
MW-3	04/08/1997	---	---	0.03	74	100	0.16	4.79	---	---	---	0.00
MW-3	07/08/1997	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00

Table 2

Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station
4255 MacArthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	SPHs removed by bailer/ skimmer (ml)	SPHs removed by bailer/ skimmer (pounds)	SPHs removed by bailer/ skimmer (pounds)	Sock initial weight (pounds)	Sock final weight (pounds)	SPHs removed by socks (pounds)	Cumulative SPHs removed by socks (pounds)
MW-3	10/08/1997	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	01/08/1998	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	04/13/1998	---	0	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/17/1998	---	0	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/17/1998	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	02/03/1999	---	0	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	04/29/1999	---	0	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/23/1999	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	11/01/1999	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	01/17/2000	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	04/17/2000	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/26/2000	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	10/12/2000	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	01/15/2001	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	04/09/2001	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/24/2001	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	10/31/2001	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	01/10/2002	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	04/25/2002	---	---	0.00	0	0	0.00	4.79	---	---	---	0.00
MW-3	07/18/2002	---	---	0.03	74	50	0.08	4.87	---	---	---	0.00
MW-3	10/07/2002	---	---	0.20	492	0	0.00	4.87	---	---	---	0.00
MW-3	01/06/2003	---	---	0.02	49	0	0.00	4.87	---	---	---	0.00
MW-3	04/07/2003	---	---	0.00	0	0	0.00	4.87	---	---	---	0.00
MW-3	07/07/2003	---	---	0.00	0	0	0.00	4.87	---	---	---	0.00
MW-3	10/20/2003	---	---	0.08	197	0	0.00	4.87	---	---	---	0.00
MW-3	10/20/2003	---	---	0.07	172	150	0.25	5.12	---	---	---	0.00
MW-3	01/14/2004	---	---	0.02	49	50	0.08	5.20	---	---	---	0.00
MW-3	04/28/2004	---	---	0.00	0	0	0.00	5.20	---	---	---	0.00
MW-3	07/12/2004	---	---	0.03	74	98	0.16	5.36	---	---	---	0.00
MW-3	10/25/2004	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	01/17/2005	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00

Table 2

Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station
4255 MacArthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	SPHs removed by bailer/ skimmer (ml)	SPHs removed by bailer/ skimmer (pounds)	SPHs removed by bailer/ skimmer (pounds)	Sock initial weight (pounds)	Sock final weight (pounds)	SPHs removed by socks (pounds)	Cumulative SPHs removed by socks (pounds)
MW-3	04/06/2005	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	07/08/2005	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	08/31/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	10/07/2005	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	01/27/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	03/16/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	04/28/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	05/15/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	07/28/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	09/26/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	10/27/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	12/26/2006	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	01/10/2007	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	02/19/2007	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	03/16/2007	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	04/13/2007	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	07/09/2007	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	10/08/2007	---	---	0.01	25	0	0.00	5.36	---	---	---	0.00
MW-3	01/09/2008	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	02/21/2008	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	03/20/2008	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	04/04/2008	---	---	0.00	0	0	0.00	5.36	---	---	---	0.00
MW-3	05/27/2008	---	---	0.01	25	24	0.04	5.40	---	---	---	0.00
MW-3	06/11/2008	---	---	0.01	25	25	0.04	5.44	---	---	---	0.00
MW-3	07/03/2008	---	---	0.01	25	25	0.04	5.48	---	---	---	0.00
MW-3	08/04/2008	---	---	0.00	0	0	0.00	5.48	---	---	---	0.00
MW-3	09/17/2008	---	---	0.01	24	24	0.04	5.52	---	---	---	0.00
MW-3	10/03/2008	---	---	0.01	25	0	0.00	5.52	---	---	---	0.00
MW-3	11/26/2008	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	12/30/2008	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	01/22/2009	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00

Table 2

Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station
4255 MacArthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	SPHs removed by bailer/ skimmer (ml)	SPHs removed by bailer/ skimmer (pounds)	SPHs removed by bailer/ skimmer (pounds)	Sock initial weight (pounds)	Sock final weight (pounds)	SPHs removed by socks (pounds)	Cumulative SPHs removed by socks (pounds)
MW-3	11/10/2009	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	02/01/2010	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	08/02/2010	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	01/31/2011	---	---	0.00	0	0	0.00	5.52	---	---	---	0.00
MW-3	02/17/2011	---	---	0.01	25	0	0.00	5.52	---	---	---	0.00
MW-3	04/26/2011	---	---	0.00	0	0	0.00	5.52	0.70	1.12	0.42	0.42
MW-3	07/25/2011	---	---	0.00	0	0	0.00	5.52	0.66	0.74	0.08	0.50
MW-3	10/13/2011	---	---	0.00	0	0	0.00	5.52	0.00	0.00	0.00	0.50
MW-3	01/23/2012	---	---	0.00	0	0	0.00	5.52	0.64	0.64	0.00	0.50
MW-3	04/23/2012	---	---	0.00	0	0	0.00	5.52	0.34	1.50	1.16	1.66
MW-3	07/24/2012	---	---	0.01	25	0	0.00	5.52	0.52	1.04	0.52	2.18
MW-3	11/07/2012	---	---	0.00	0	0	0.00	5.52	0.68	2.30	1.62	3.80
MW-3	01/23/2013	---	---	0.00	0	0	0.00	5.52	0.66	1.70	1.04	4.84
MW-3	04/01/2013	---	---	0.00	0	0	0.00	5.52	0.64	1.80	1.16	6.00
MW-3	07/10/2013	---	---	0.00	0	0	0.00	5.52	0.60	1.00	0.40	6.40
MW-3	10/01/2013	---	---	0.00	0	0	0.00	5.52	0.72	1.41	0.69	7.09
MW-3	01/16/2014	---	---	0.00	0	0	0.00	5.52	0.84	2.36	1.52	8.61
MW-3	04/29/2014	---	---	0.00	0	0	0.00	5.52	0.75	0.92	0.17	8.78
MW-3	07/10/2014	---	---	0.00	0	0	0.00	5.52	0.74	0.92	0.18	8.96
MW-3	10/14/2014	---	---	0.00	0	0	0.00	5.52	0.74	2.23	1.49	10.45
MW-3	01/27/2015	---	---	0.00	0	0	0.00	5.52	0.74	1.74	1.00	11.45
MW-4	08/02/2010	---	---	0.12	73	72	0.12	0.12	---	---	---	0.00
MW-4	08/24/2010	---	---	0.10	61	0	0.00	0.12	---	---	---	0.00
MW-4	09/07/2010	---	---	0.13	79	30	0.05	0.17	---	---	---	0.00
MW-4	10/05/2010	---	---	0.19	115	40	0.07	0.23	---	---	---	0.00
MW-4	11/02/2010	---	---	0.03	18	20	0.03	0.27	---	---	---	0.00
MW-4	12/07/2010	---	---	0.01	6.1	2	0.00	0.27	---	---	---	0.00
MW-4	01/31/2011	---	---	0.00	0	0	0.00	0.27	---	---	---	0.00
MW-4	04/26/2011	---	---	0.00	0	0	0.00	0.27	---	---	---	0.00
MW-4	07/25/2011	---	---	0.00	0	0	0.00	0.27	0.31	0.62	0.31	0.31

Table 2

Separate-Phase Hydrocarbon Removal Data
Former Shell Service Station
4255 MacArthur Boulevard, Oakland, California

Well ID	Date	SPHs observed in 2" bailer (feet)	SPHs observed in 2" bailer/ skimmer (ml)	SPHs measured with interface probe (feet)	SPH calculated volume (ml)	SPHs removed by bailer/ skimmer (ml)	SPHs removed by bailer/ skimmer (pounds)	SPHs removed by bailer/ skimmer (pounds)	Sock initial weight (pounds)	Sock final weight (pounds)	SPHs removed by socks (pounds)	Cumulative SPHs removed by socks (pounds)
MW-4	10/13/2011	---	---	0.00	0	0	0.00	0.27	0.34	0.90	0.56	0.87
MW-4	01/23/2012	---	---	0.00	0	0	0.00	0.27	0.28	0.56	0.28	1.15
MW-4	04/23/2012	---	---	0.00	0	0	0.00	0.27	0.32	0.60	0.28	1.43
MW-4	07/24/2012	---	---	0.00	0	0	0.00	0.27	0.36	0.36	0.00	1.43
MW-4	11/07/2012	---	---	0.00	0	0	0.00	0.27	0.34	1.20	0.86	2.29
MW-4	01/23/2013	---	---	0.00	0	0	0.00	0.27	0.34	0.31	-0.03	2.26
MW-4	04/01/2013	---	---	0.00	0	0	0.00	0.27	0.74	0.64	-0.10	2.16
MW-4	07/10/2013	---	---	0.00	0	0	0.00	0.27	0.30	0.38	0.08	2.24
MW-4	10/01/2013	---	---	0.00	0	0	0.00	0.27	0.35	0.38	0.03	2.27
MW-4	01/16/2014	---	---	0.00	0	0	0.00	0.27	0.35	1.08	0.73	3.00
MW-4	04/29/2014	---	---	0.00	0	0	0.00	0.27	0.64	0.60	-0.04	2.96
MW-4	07/10/2014	---	---	0.00	0	0	0.00	0.27	0.37	0.42	0.05	3.01
MW-4	10/14/2014	---	---	0.00	0	0	0.00	0.27	0.37	0.41	0.04	3.05
MW-4	01/27/2015	---	---	0.00	0	0	0.00	0.27	0.38	0.86	0.48	3.53

SPHs removed by bailer/skimmer this period:	0.33	***SPHs removed by socks this period:***	0.00
Cumulative SPHs removed by bailer/skimmer:	28.35	***Cumulative SPHs removed by Socks:***	26.84

Total SPHs removed this event (pounds):	0.33
Total SPHs removed (pounds):	55.19

Notes:
SPH = Separate-phase hydrocarbon
Sock = SPH-absorbent sock
ml = Milliliters

Appendix A
Blaine Tech Services – Field Notes

WELL GAUGING DATA

Project # 150724MM1 Date 7/21/15 Client Shell

Site 4255 Macarthur Blvd. Oakland CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
MW-1	1012	4					8.34	23.31		
MW-2	1034	4		11.71	0.07	200	11.78	—		
MW-3	1030	4					14.61	21.85		
MW-4	1039	2		—			8.03	30.56		
MW-5	1000	2					7.94	19.78		
MW-6	1024	2					11.03	23.60		
MW-7	1008	4					8.79	29.03		
MW-8	1004	4					5.15	29.80		
MW-9	1019	4					7.32	29.63		

BLAINE TECH SERVICES, INC. SAN JOSE

SHELL WELL MONITORING DATA SHEET

BTS #: 150721-MM1	Site: 4255 Macarthur Blvd. Oakland, CA
Sampler: MM, DS	Date: 7/21/15
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 23.31	Depth to Water (DTW): 8.34
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]: 11.33	

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: _____

9.7 (Gals.) X	3	=	29.1 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1159	69.6	7.03	988	7	10	clear, odor
	WELL DEWATERED AT 13 GAL					
1425	70.7	7.13	980	20	GRAB	

Did well dewater? (Yes) No Gallons actually evacuated: 13

Sampling Date: 7/21/15 Sampling Time: 1425 Depth to Water: 14.00 (> 2 hours)

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 #: 150721-MM1	Site: 4255 Macarthur Blvd. Oakland
Sampler: MM, DS	Date: 7/21/15
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 11.76
Depth to Free Product: 11.71	Thickness of Free Product (feet): 0.07
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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
-	Detected	SPH w/ Interface Probe				
-	Removed	~ 200 mL SPH	& 1 GAL OF	WATER		
NEW SOCK INSTALLED		WEIGHT :	0.18Kg	(0.4016)		
	NO SAMPLE	TAKEN				

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 #: 150721-MM1	Site: 4255 Macarthur Blvd. Oakland, CA
Sampler: MM, DS	Date: 7/21/15
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 21.85	Depth to Water (DTW): 14.61
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]: 16.05	

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: ____

4.7 (Gals.) X 3 = 14.1 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1320	69.0	6.70	1186	28	5	odor, clear
	WELL	DEWATERED	AT	6 GAL		
1445	68.7	6.67	1150	17	GRAB	
NEW SOCK	INSTALLED	IN WELL	WEIGHT:	0.18 Kg	(0.40 lb)	

Did well dewater? (Yes) No Gallons actually evacuated: 6

Sampling Date: 7/21/15 Sampling Time: 1445 Depth to Water: 15.91

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): @ 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 #: 150721-MM1	Site: 4255 MacArthur Blvd. Oakland
Sampler: MM, DS	Date: 7/21/15
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 30.56	Depth to Water (DTW): 8.03
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.53	

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: ___

3.6 (Gals.) X	3	=	10.8 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1338	69.4	7.05	1100	72	4	odor, sheen
1342	68.9	6.92	1120	61	8	odor, sheen
1346	69.0	6.81	1115	48	12	odor, sheen
NEW SOCK INSTALLED WEIGHT (0.16 kg) (0.36 lb)						

Did well dewater? Yes (No) Gallons actually evacuated: 12

Sampling Date: 7/21/15 Sampling Time: 1355 Depth to Water: 12.29

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

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 150721-MM1	Site: 4255 MacArthur Blvd. Oakland, CA
Sampler: MM, DS	Date: 7/21/15
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 19.78	Depth to Water (DTW): 7.94
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]: 10.30	

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: _____

1.89 (Gals.) X	3	=	5.67 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1047	64.5	6.10	850	228	2	cloudy, brown
1049	64.7	6.13	811	292	4	↓
1051	64.4	6.28	752	329	6	↓

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Date: 7/21/15 Sampling Time: 1105 Depth to Water: 10.18

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 #: 150721-MM1	Site: 4255 Macarthur Blvd. Oakland
Sampler: MM, DS	Date: 7/21/15
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 23.60	Depth to Water (DTW): 11.03
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]: 13.54	

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: _____

2 (Gals.) X	3	=	6 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1300	72.3	7.35	821	606	2	gray, odor
1301	69.3	6.69	1080	71000	4	↓
1303	68.6	6.60	1136	422	6	↓

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Date: 7/21/15 Sampling Time: 1305 Depth to Water: 12.25

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 #: 150721-MM1	Site: 4255 Macarthur Blvd. Oakland, CA
Sampler: MM, DS	Date: 7/21/15
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.03	Depth to Water (DTW): 8.79
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.83	

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:_____

13.2 (Gals.) X 3 = 39.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1137	68.9	7.34	887	7	13.5	clear, odor
1141	69.4	7.06	878	8	27	clear, odor
1144	68.5	7.33	877	8	40.5	clear, odor DTW: 22.15

Did well dewater? Yes (No) Gallons actually evacuated: 40.5

Sampling Date: 7/21/15 Sampling Time: 1415 Depth to Water: 22.03 (2HR)

Sample I.D.: MW-7 Laboratory: (Test America) Other_____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 150721-MM1	Site: 4255 Macarthur Blvd. Oakland, CA
Sampler: MM, DS	Date: 7/21/15
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.80	Depth to Water (DTW): 5.15
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]: 10.08	

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 (Gals.) X 3 = 48 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1116	68.9	6.92	1001	14	16	clear
1120	69.9	6.85	996	4	32	
1124	69.0	6.90	1007	5	48	↓ DTW: 26.68

Did well dewater? Yes (No) Gallons actually evacuated: 48

Sampling Date: 7/21/15 Sampling Time: 1405 Depth to Water: 6.79

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 #: 150721-MM1	Site: 4255 MacArthur Blvd. Oakland, CA
Sampler: MM, DS	Date: 7/21/15
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.63	Depth to Water (DTW): 7.32
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]: 11.78	

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: _____

14.5 (Gals.) X	3	=	43.5 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1213	70.0	7.28	841	13	14.5	clear, slight odor
1217	69.4	6.94	849	8	29.0	clear, slight odor
1221	69.3	6.95	826	10	43.5	↓ ↓

Did well dewater? Yes (No) Gallons actually evacuated: 43.5

Sampling Date: 7/21/15 Sampling Time: 1435 Depth to Water: 16.98 (72 hours)

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

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 98995758

ADDRESS 4255 Macarthur Blvd.

DATE: 7/21/15

CITY & STATE Oakland CA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-1	Standpipe	Flush	G	P	Size (inch) 8	Y	N	G	R	G	R	NL	G	P	1/2 tabs broken 1/2 bolts missing	Y	N	
MW-2	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P	2/2 tabs stripped	Y	N	
MW-3	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-4	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-5	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-6	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-7	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-8	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-9	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
TOTAL # CAPS REPLACED =								0		0		= TOTAL # OF LOCKS REPLACED						

Condition of Soil Boring Patches or Abandoned Monitoring Wells:	G	P	N/A	If POOR, Borings/Well IDs or Location Description:	Y	N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	✓	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
1	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

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

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

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

Mark McCabe Blaine Tech Services

Print or type Name of Field Personnel & Consultant Company

Appendix B
TestAmerica Laboratories, Inc. – Analytical Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-116148-1
Client Project/Site: 4255 MacArthur Blvd., Oakland, CA

For:
GHD Services Inc.
19449 Riverside Drive, Suite 230
Sonoma, California 95476

Attn: Peter Schaefer

Heather Clark

Authorized for release by:
7/31/2015 10:36:33 AM

Heather Clark, Project Manager I
(949)261-1022
heather.clark@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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

Table of Contents

Sample Summary

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

TestAmerica Job ID: 440-116148-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-116148-1	MW-1	Ground Water	07/21/15 14:25	07/24/15 10:00
440-116148-2	MW-3	Ground Water	07/21/15 14:45	07/24/15 10:00
440-116148-3	MW-4	Ground Water	07/21/15 13:55	07/24/15 10:00
440-116148-4	MW-5	Ground Water	07/21/15 11:05	07/24/15 10:00
440-116148-5	MW-6	Ground Water	07/21/15 13:05	07/24/15 10:00
440-116148-6	MW-7	Ground Water	07/21/15 14:15	07/24/15 10:00
440-116148-7	MW-8	Ground Water	07/21/15 14:05	07/24/15 10:00
440-116148-8	MW-9	Ground Water	07/21/15 14:35	07/24/15 10:00

Job ID: 440-116148-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-116148-1

Comments
No additional comments.

Receipt
The samples were received on 7/24/2015 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º C.

GC/MS VOA
Method(s) 8260B/CA_LUFTMS: The Gasoline Range Organics (GRO) concentration reported for the following samples is due to the presence of discrete peaks: MW-1 (440-116148-1) and MW-9 (440-116148-8). Methyl tert-butyl ether.

Method(s) 8260B/CA_LUFTMS: The Gasoline Range Organics (GRO) concentration reported for the following sample is due to the presence of discrete peaks: MW-7 (440-116148-6). Methyl tert-butyl ether.

Method(s) 8260B: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, pH of 6 was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-5 (440-116148-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: MW-1

Date Collected: 07/21/15 14:25
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-1

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**1100**		1000		ug/L			07/27/15 16:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*07/27/15 16:47*	*20*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/27/15 16:47*	*20*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/27/15 16:47*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10		ug/L			07/27/15 16:47	20
Isopropyl Ether (DIPE)	ND		10		ug/L			07/27/15 16:47	20
Ethyl-t-butyl ether (ETBE)	ND		10		ug/L			07/27/15 16:47	20
Ethylbenzene	ND		10		ug/L			07/27/15 16:47	20
Methyl-t-Butyl Ether (MTBE)	**950**		10		ug/L			07/27/15 16:47	20
Tert-amyl-methyl ether (TAME)	ND		10		ug/L			07/27/15 16:47	20
tert-Butyl alcohol (TBA)	**510**		200		ug/L			07/27/15 16:47	20
Toluene	ND		10		ug/L			07/27/15 16:47	20
Xylenes, Total	ND		20		ug/L			07/27/15 16:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/27/15 16:47*	*20*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*07/27/15 16:47*	*20*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/27/15 16:47*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		3000		ug/L			07/28/15 13:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/28/15 13:48*	*20*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*07/28/15 13:48*	*20*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/28/15 13:48*	*20*

Client Sample ID: MW-3

Date Collected: 07/21/15 14:45
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-2

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**13000**		1300		ug/L			07/27/15 17:17	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*07/27/15 17:17*	*25*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/27/15 17:17*	*25*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/27/15 17:17*	*25*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2000**		13		ug/L			07/27/15 17:17	25
Isopropyl Ether (DIPE)	ND		13		ug/L			07/27/15 17:17	25

Client Sample ID: MW-3

Date Collected: 07/21/15 14:45
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-2

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		13		ug/L			07/27/15 17:17	25
Ethylbenzene	**98**		13		ug/L			07/27/15 17:17	25
Methyl-t-Butyl Ether (MTBE)	**700**		13		ug/L			07/27/15 17:17	25
Tert-amyl-methyl ether (TAME)	ND		13		ug/L			07/27/15 17:17	25
tert-Butyl alcohol (TBA)	**1000**		250		ug/L			07/27/15 17:17	25
Toluene	**18**		13		ug/L			07/27/15 17:17	25
Xylenes, Total	**110**		25		ug/L			07/27/15 17:17	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/27/15 17:17*	*25*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*07/27/15 17:17*	*25*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/27/15 17:17*	*25*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		3800		ug/L			07/28/15 14:16	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/28/15 14:16*	*25*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*07/28/15 14:16*	*25*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/28/15 14:16*	*25*

Client Sample ID: MW-4

Date Collected: 07/21/15 13:55
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-3

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**12000**		500		ug/L			07/27/15 15:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*07/27/15 15:19*	*10*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/27/15 15:19*	*10*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/27/15 15:19*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**37**		5.0		ug/L			07/27/15 15:19	10
Isopropyl Ether (DIPE)	ND		5.0		ug/L			07/27/15 15:19	10
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			07/27/15 15:19	10
Ethylbenzene	**280**		5.0		ug/L			07/27/15 15:19	10
Methyl-t-Butyl Ether (MTBE)	**31**		5.0		ug/L			07/27/15 15:19	10
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			07/27/15 15:19	10
tert-Butyl alcohol (TBA)	ND		100		ug/L			07/27/15 15:19	10
Toluene	**19**		5.0		ug/L			07/27/15 15:19	10
Xylenes, Total	**820**		10		ug/L			07/27/15 15:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/27/15 15:19*	*10*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*07/27/15 15:19*	*10*

Client Sample ID: MW-4

Date Collected: 07/21/15 13:55
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-3
Matrix: Ground Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/27/15 15:19*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		1500		ug/L			07/28/15 12:51	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/28/15 12:51*	*10*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*07/28/15 12:51*	*10*
Toluene-d8 (Surr)	*111*		*80 - 128*		*07/28/15 12:51*	*10*

Client Sample ID: MW-5

Date Collected: 07/21/15 11:05
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-4
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			07/27/15 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*07/27/15 13:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/27/15 13:51*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/27/15 13:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/27/15 13:51	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/27/15 13:51	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/27/15 13:51	1
Ethylbenzene	ND		0.50		ug/L			07/27/15 13:51	1
Methyl-t-Butyl Ether (MTBE)	**3.0**		0.50		ug/L			07/27/15 13:51	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/27/15 13:51	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/27/15 13:51	1
Toluene	ND		0.50		ug/L			07/27/15 13:51	1
Xylenes, Total	ND		1.0		ug/L			07/27/15 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/27/15 13:51*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*07/27/15 13:51*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/27/15 13:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		150		ug/L			07/28/15 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/28/15 11:53*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*07/28/15 11:53*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/28/15 11:53*	*1*

Client Sample ID: MW-6

Date Collected: 07/21/15 13:05
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-5

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**4700**		500		ug/L			07/27/15 15:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*07/27/15 15:49*	*10*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/27/15 15:49*	*10*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/27/15 15:49*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**680**		5.0		ug/L			07/27/15 15:49	10
Isopropyl Ether (DIPE)	ND		5.0		ug/L			07/27/15 15:49	10
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			07/27/15 15:49	10
Ethylbenzene	ND		5.0		ug/L			07/27/15 15:49	10
Methyl-t-Butyl Ether (MTBE)	**73**		5.0		ug/L			07/27/15 15:49	10
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			07/27/15 15:49	10
tert-Butyl alcohol (TBA)	**4400**		100		ug/L			07/27/15 15:49	10
Toluene	**9.2**		5.0		ug/L			07/27/15 15:49	10
Xylenes, Total	**14**		10		ug/L			07/27/15 15:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/27/15 15:49*	*10*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*07/27/15 15:49*	*10*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/27/15 15:49*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		1500		ug/L			07/28/15 13:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/28/15 13:19*	*10*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*07/28/15 13:19*	*10*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/28/15 13:19*	*10*

Client Sample ID: MW-7

Date Collected: 07/21/15 14:15
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**260**		250		ug/L			07/28/15 03:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*07/28/15 03:24*	*5*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/28/15 03:24*	*5*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/28/15 03:24*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.2**		2.5		ug/L			07/28/15 03:24	5
Isopropyl Ether (DIPE)	ND		2.5		ug/L			07/28/15 03:24	5

Client Sample ID: MW-7

Date Collected: 07/21/15 14:15
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-6
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		750		ug/L			07/28/15 03:24	5
Ethyl-t-butyl ether (ETBE)	ND		2.5		ug/L			07/28/15 03:24	5
Ethylbenzene	ND		2.5		ug/L			07/28/15 03:24	5
Methyl-t-Butyl Ether (MTBE)	**220**		2.5		ug/L			07/28/15 03:24	5
Tert-amyl-methyl ether (TAME)	ND		2.5		ug/L			07/28/15 03:24	5
tert-Butyl alcohol (TBA)	**320**		50		ug/L			07/28/15 03:24	5
Toluene	ND		2.5		ug/L			07/28/15 03:24	5
Xylenes, Total	ND		5.0		ug/L			07/28/15 03:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/28/15 03:24*	*5*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*07/28/15 03:24*	*5*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/28/15 03:24*	*5*

Client Sample ID: MW-8

Date Collected: 07/21/15 14:05
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-7
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			07/28/15 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*07/28/15 02:53*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/28/15 02:53*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/28/15 02:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/28/15 02:53	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/28/15 02:53	1
Ethanol	ND		150		ug/L			07/28/15 02:53	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/28/15 02:53	1
Ethylbenzene	ND		0.50		ug/L			07/28/15 02:53	1
Methyl-t-Butyl Ether (MTBE)	**41**		0.50		ug/L			07/28/15 02:53	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/28/15 02:53	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/28/15 02:53	1
Toluene	ND		0.50		ug/L			07/28/15 02:53	1
Xylenes, Total	ND		1.0		ug/L			07/28/15 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/28/15 02:53*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*07/28/15 02:53*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/28/15 02:53*	*1*

Client Sample ID: MW-9

Date Collected: 07/21/15 14:35
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-8

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**310**		100		ug/L			07/27/15 14:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*07/27/15 14:21*	*2*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/27/15 14:21*	*2*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/27/15 14:21*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/27/15 14:21	2
Isopropyl Ether (DIPE)	ND		1.0		ug/L			07/27/15 14:21	2
Ethyl-t-butyl ether (ETBE)	ND		1.0		ug/L			07/27/15 14:21	2
Ethylbenzene	ND		1.0		ug/L			07/27/15 14:21	2
Methyl-t-Butyl Ether (MTBE)	**300**		1.0		ug/L			07/27/15 14:21	2
Tert-amyl-methyl ether (TAME)	ND		1.0		ug/L			07/27/15 14:21	2
tert-Butyl alcohol (TBA)	**52**		20		ug/L			07/27/15 14:21	2
Toluene	ND		1.0		ug/L			07/27/15 14:21	2
Xylenes, Total	ND		2.0		ug/L			07/27/15 14:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/27/15 14:21*	*2*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*07/27/15 14:21*	*2*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/27/15 14:21*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		300		ug/L			07/28/15 12:22	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/28/15 12:22*	*2*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*07/28/15 12:22*	*2*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/28/15 12:22*	*2*

Method Summary

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

TestAmerica Job ID: 440-116148-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

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

TestAmerica Job ID: 440-116148-1

Client Sample ID: MW-1
Date Collected: 07/21/15 14:25
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	20	10 mL	10 mL	269514	07/28/15 13:48	SS	TAL IRV
Total/NA	Analysis	8260B		20	10 mL	10 mL	269278	07/27/15 16:47	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		20	10 mL	10 mL	269279	07/27/15 16:47	HR	TAL IRV

Client Sample ID: MW-3
Date Collected: 07/21/15 14:45
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	25	10 mL	10 mL	269514	07/28/15 14:16	SS	TAL IRV
Total/NA	Analysis	8260B		25	10 mL	10 mL	269278	07/27/15 17:17	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		25	10 mL	10 mL	269279	07/27/15 17:17	HR	TAL IRV

Client Sample ID: MW-4
Date Collected: 07/21/15 13:55
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	10	10 mL	10 mL	269514	07/28/15 12:51	SS	TAL IRV
Total/NA	Analysis	8260B		10	10 mL	10 mL	269278	07/27/15 15:19	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		10	10 mL	10 mL	269279	07/27/15 15:19	HR	TAL IRV

Client Sample ID: MW-5
Date Collected: 07/21/15 11:05
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	269514	07/28/15 11:53	SS	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	269278	07/27/15 13:51	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	269279	07/27/15 13:51	HR	TAL IRV

Client Sample ID: MW-6
Date Collected: 07/21/15 13:05
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	10	10 mL	10 mL	269514	07/28/15 13:19	SS	TAL IRV
Total/NA	Analysis	8260B		10	10 mL	10 mL	269278	07/27/15 15:49	HR	TAL IRV

Lab Chronicle

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

TestAmerica Job ID: 440-116148-1

Client Sample ID: MW-6
Date Collected: 07/21/15 13:05
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	10 mL	10 mL	269279	07/27/15 15:49	HR	TAL IRV

Client Sample ID: MW-7
Date Collected: 07/21/15 14:15
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	269395	07/28/15 03:24	WK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		5	10 mL	10 mL	269396	07/28/15 03:24	WK	TAL IRV

Client Sample ID: MW-8
Date Collected: 07/21/15 14:05
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	269395	07/28/15 02:53	WK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	269396	07/28/15 02:53	WK	TAL IRV

Client Sample ID: MW-9
Date Collected: 07/21/15 14:35
Date Received: 07/24/15 10:00

Lab Sample ID: 440-116148-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	2	10 mL	10 mL	269514	07/28/15 12:22	SS	TAL IRV
Total/NA	Analysis	8260B		2	10 mL	10 mL	269278	07/27/15 14:21	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		2	10 mL	10 mL	269279	07/27/15 14:21	HR	TAL IRV

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

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

Lab Sample ID: MB 440-269278/4
Matrix: Water
Analysis Batch: 269278

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/27/15 08:18	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/27/15 08:18	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/27/15 08:18	1
Ethylbenzene	ND		0.50		ug/L			07/27/15 08:18	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			07/27/15 08:18	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/27/15 08:18	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/27/15 08:18	1
Toluene	ND		0.50		ug/L			07/27/15 08:18	1
Xylenes, Total	ND		1.0		ug/L			07/27/15 08:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/27/15 08:18*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*07/27/15 08:18*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/27/15 08:18*	*1*

Lab Sample ID: LCS 440-269278/5
Matrix: Water
Analysis Batch: 269278

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.5		ug/L		98	68 - 130
Isopropyl Ether (DIPE)	25.0	27.1		ug/L		108	58 - 139
Ethyl-t-butyl ether (ETBE)	25.0	27.9		ug/L		112	60 - 136
Ethylbenzene	25.0	24.3		ug/L		97	70 - 130
m,p-Xylene	25.0	26.4		ug/L		106	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	25.0		ug/L		100	63 - 131
o-Xylene	25.0	25.6		ug/L		102	70 - 130
Tert-amyl-methyl ether (TAME)	25.0	25.8		ug/L		103	57 - 139
tert-Butyl alcohol (TBA)	250	279		ug/L		112	70 - 130
Toluene	25.0	24.1		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: 440-116170-B-1 MS
Matrix: Water
Analysis Batch: 269278

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	26.1		ug/L		104	66 - 130
Isopropyl Ether (DIPE)	ND		25.0	29.0		ug/L		116	64 - 138
Ethyl-t-butyl ether (ETBE)	ND		25.0	29.7		ug/L		119	70 - 130
Ethylbenzene	ND		25.0	24.9		ug/L		100	70 - 130
m,p-Xylene	ND		25.0	27.2		ug/L		109	70 - 133
Methyl-t-Butyl Ether (MTBE)	0.96		25.0	27.7		ug/L		107	70 - 130

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

Lab Sample ID: 440-116170-B-1 MS
Matrix: Water
Analysis Batch: 269278

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	ND		25.0	26.3		ug/L		105	70 - 133
Tert-amyl-methyl ether (TAME)	ND		25.0	27.6		ug/L		110	68 - 133
tert-Butyl alcohol (TBA)	ND		250	269		ug/L		107	70 - 130
Toluene	ND		25.0	25.2		ug/L		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: 440-116170-B-1 MSD
Matrix: Water
Analysis Batch: 269278

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	24.8		ug/L		99	66 - 130	5	20
Isopropyl Ether (DIPE)	ND		25.0	27.1		ug/L		108	64 - 138	7	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	27.8		ug/L		111	70 - 130	7	25
Ethylbenzene	ND		25.0	23.8		ug/L		95	70 - 130	5	20
m,p-Xylene	ND		25.0	25.8		ug/L		103	70 - 133	5	25
Methyl-t-Butyl Ether (MTBE)	0.96		25.0	25.6		ug/L		99	70 - 130	8	25
o-Xylene	ND		25.0	24.9		ug/L		100	70 - 133	5	20
Tert-amyl-methyl ether (TAME)	ND		25.0	25.8		ug/L		103	68 - 133	7	30
tert-Butyl alcohol (TBA)	ND		250	279		ug/L		112	70 - 130	4	25
Toluene	ND		25.0	23.7		ug/L		95	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: MB 440-269395/4
Matrix: Water
Analysis Batch: 269395

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/27/15 19:53	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			07/27/15 19:53	1
Ethanol	ND		150		ug/L			07/27/15 19:53	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			07/27/15 19:53	1
Ethylbenzene	ND		0.50		ug/L			07/27/15 19:53	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			07/27/15 19:53	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			07/27/15 19:53	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/27/15 19:53	1
Toluene	ND		0.50		ug/L			07/27/15 19:53	1
Xylenes, Total	ND		1.0		ug/L			07/27/15 19:53	1

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

Lab Sample ID: MB 440-269395/4
Matrix: Water
Analysis Batch: 269395

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		80 - 120		07/27/15 19:53	1
Dibromofluoromethane (Surr)	101		76 - 132		07/27/15 19:53	1
Toluene-d8 (Surr)	109		80 - 128		07/27/15 19:53	1

Lab Sample ID: LCS 440-269395/5
Matrix: Water
Analysis Batch: 269395

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.7		ug/L		95	68 - 130
Isopropyl Ether (DIPE)	25.0	26.6		ug/L		106	58 - 139
Ethanol	1250	1430		ug/L		115	50 - 149
Ethyl-t-butyl ether (ETBE)	25.0	26.0		ug/L		104	60 - 136
Ethylbenzene	25.0	24.1		ug/L		97	70 - 130
m,p-Xylene	25.0	24.6		ug/L		98	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	24.6		ug/L		99	63 - 131
o-Xylene	25.0	23.3		ug/L		93	70 - 130
Tert-amyl-methyl ether (TAME)	25.0	25.0		ug/L		100	57 - 139
tert-Butyl alcohol (TBA)	250	279		ug/L		112	70 - 130
Toluene	25.0	23.0		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	101		76 - 132
Toluene-d8 (Surr)	107		80 - 128

Lab Sample ID: 440-115688-A-1 MS
Matrix: Water
Analysis Batch: 269395

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	24.0		ug/L		96	66 - 130
Isopropyl Ether (DIPE)	ND		25.0	26.5		ug/L		106	64 - 138
Ethanol	ND		1250	1520		ug/L		122	54 - 150
Ethyl-t-butyl ether (ETBE)	ND		25.0	25.8		ug/L		103	70 - 130
Ethylbenzene	ND		25.0	24.4		ug/L		98	70 - 130
m,p-Xylene	ND		25.0	24.8		ug/L		99	70 - 133
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.6		ug/L		99	70 - 130
o-Xylene	ND		25.0	23.8		ug/L		95	70 - 133
Tert-amyl-methyl ether (TAME)	ND		25.0	24.7		ug/L		99	68 - 133
tert-Butyl alcohol (TBA)	ND		250	284		ug/L		114	70 - 130
Toluene	ND		25.0	23.1		ug/L		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	102		76 - 132
Toluene-d8 (Surr)	105		80 - 128

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

Lab Sample ID: 440-115688-A-1 MSD
Matrix: Water
Analysis Batch: 269395

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	23.5		ug/L		94	66 - 130	2	20
Isopropyl Ether (DIPE)	ND		25.0	25.9		ug/L		104	64 - 138	2	25
Ethanol	ND		1250	1550		ug/L		124	54 - 150	2	30
Ethyl-t-butyl ether (ETBE)	ND		25.0	24.6		ug/L		98	70 - 130	5	25
Ethylbenzene	ND		25.0	24.4		ug/L		98	70 - 130	0	20
m,p-Xylene	ND		25.0	24.8		ug/L		99	70 - 133	0	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	23.2		ug/L		93	70 - 130	6	25
o-Xylene	ND		25.0	24.1		ug/L		96	70 - 133	1	20
Tert-amyl-methyl ether (TAME)	ND		25.0	23.8		ug/L		95	68 - 133	4	30
tert-Butyl alcohol (TBA)	ND		250	284		ug/L		114	70 - 130	0	25
Toluene	ND		25.0	23.0		ug/L		92	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
Toluene-d8 (Surr)	*108*		*80 - 128*

Lab Sample ID: MB 440-269514/3
Matrix: Water
Analysis Batch: 269514

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		150		ug/L			07/28/15 07:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/28/15 07:26*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*07/28/15 07:26*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*07/28/15 07:26*	*1*

Lab Sample ID: LCS 440-269514/4
Matrix: Water
Analysis Batch: 269514

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethanol			1250	1360		ug/L		109	50 - 149		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: 440-116196-A-1 MS
Matrix: Water
Analysis Batch: 269514

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethanol	ND		1250	1410		ug/L		113	54 - 150		

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

Lab Sample ID: 440-116196-A-1 MS
Matrix: Water
Analysis Batch: 269514

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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	103		76 - 132
Toluene-d8 (Surr)	104		80 - 128

Lab Sample ID: 440-116196-A-1 MSD
Matrix: Water
Analysis Batch: 269514

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethanol	ND		1250	1480		ug/L		118	54 - 150	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	103		76 - 132
Toluene-d8 (Surr)	106		80 - 128

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

Lab Sample ID: MB 440-269279/4
Matrix: Water
Analysis Batch: 269279

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			07/27/15 08:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		76 - 132		07/27/15 08:18	1
4-Bromofluorobenzene (Surr)	101		80 - 120		07/27/15 08:18	1
Toluene-d8 (Surr)	110		80 - 128		07/27/15 08:18	1

Lab Sample ID: LCS 440-269279/6
Matrix: Water
Analysis Batch: 269279

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Volatile Fuel Hydrocarbons (C4-C12)			500	442		ug/L		88	55 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	104		76 - 132
4-Bromofluorobenzene (Surr)	100		80 - 120
Toluene-d8 (Surr)	107		80 - 128

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

Lab Sample ID: 440-116170-B-1 MS
Matrix: Water
Analysis Batch: 269279

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	670		1730	2540		ug/L		108	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: 440-116170-B-1 MSD
Matrix: Water
Analysis Batch: 269279

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	670		1730	2300		ug/L		95	50 - 145	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: MB 440-269396/4
Matrix: Water
Analysis Batch: 269396

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			07/27/15 19:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*07/27/15 19:53*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*07/27/15 19:53*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/27/15 19:53*	*1*

Lab Sample ID: LCS 440-269396/6
Matrix: Water
Analysis Batch: 269396

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	415		ug/L		83	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*110*		*80 - 128*

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

Lab Sample ID: 440-115688-A-1 MS
Matrix: Water
Analysis Batch: 269396

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1990		ug/L		115	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 128*

Lab Sample ID: 440-115688-A-1 MSD
Matrix: Water
Analysis Batch: 269396

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1910		ug/L		111	50 - 145	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*108*		*80 - 128*

GC/MS VOA

Analysis Batch: 269278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116148-1	MW-1	Total/NA	Ground Water	8260B	
440-116148-2	MW-3	Total/NA	Ground Water	8260B	
440-116148-3	MW-4	Total/NA	Ground Water	8260B	
440-116148-4	MW-5	Total/NA	Ground Water	8260B	
440-116148-5	MW-6	Total/NA	Ground Water	8260B	
440-116148-8	MW-9	Total/NA	Ground Water	8260B	
440-116170-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-116170-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-269278/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-269278/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 269279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116148-1	MW-1	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-116148-2	MW-3	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-116148-3	MW-4	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-116148-4	MW-5	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-116148-5	MW-6	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-116148-8	MW-9	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-116170-B-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-116170-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-269279/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-269279/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 269395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115688-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-115688-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-116148-6	MW-7	Total/NA	Ground Water	8260B	
440-116148-7	MW-8	Total/NA	Ground Water	8260B	
LCS 440-269395/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-269395/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 269396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115688-A-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-115688-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
440-116148-6	MW-7	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-116148-7	MW-8	Total/NA	Ground Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 269396 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-269396/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-269396/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 269514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116148-1 - RA	MW-1	Total/NA	Ground Water	8260B	
440-116148-2 - RA	MW-3	Total/NA	Ground Water	8260B	
440-116148-3 - RA	MW-4	Total/NA	Ground Water	8260B	
440-116148-4 - RA	MW-5	Total/NA	Ground Water	8260B	
440-116148-5 - RA	MW-6	Total/NA	Ground Water	8260B	
440-116148-8 - RA	MW-9	Total/NA	Ground Water	8260B	
440-116196-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-116196-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-269514/4	Lab Control Sample	Total/NA	Water	8260B	
MB 440-269514/3	Method Blank	Total/NA	Water	8260B	

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

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

TestAmerica Job ID: 440-116148-1

Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16

* Certification renewal pending - certification considered valid.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
☐ CALSCIENCE (_____)
☐ GPL Houston (_____)
☐ KENCO (_____)
☑ TEST AMERICA (IRVINE)
☐ OTHER (_____)

Please Check Appropriate Box:
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: 240524 Peter Schaefer
PO #:
INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 5 8
SAP #: 1 3 5 7 0 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 7/21/15
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services
LOG CODE: BTSS
ADDRESS: 1680 Rogers Avenue, San Jose, CA
PROJECT CONTACT (Hardcopy or PDF Report to): Bart Gebbie
TELEPHONE: (310) 885-4455 x 103
FAX: (310) 637-5802
E-MAIL: bgebbie@blainetech.com

SITE ADDRESS: Street and City: 4255 MacArthur Blvd., Oakland
State: CA
GLOBAL ID NO.: T0600101261
EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville, CA
PHONE NO: 510-420-3335
E-MAIL: ShellEDF@CRAWorld.com; Shell-US-LabDataManagement@CRAworld.co
CONSULTANT PROJECT NO.: 240524-95-12.01
SAMPLER NAME(S) (Print): Mark McCulloch
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:
1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabedduplod.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.
Copy final report to Shell.Lab.Billing@craworld.com, ShellEDF@craworld.com,Shell-US-LabDataManagement@CRAworld.com, and pschaefer@CRAWorld.com
Email invoice to Shell.Lab.Billing@craworld.com

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

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

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID: PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	PRESERVATIVE: HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH-GRO, Purgeable (8260B)	TPH-DRO, Extractable (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	VOCs Full list (8260B)	Single Compound: _____ (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015B)	Container PID Readings or Laboratory Notes
	WG 150721-MM1	072115	MM	MW-1	1425	WG	X					3	X				X	X					X		
	"	"	MM	MW-2																					
	"	"	"	MW-3	1445	WG	X					3	X					X					X		
	"	"	"	MW-4	1355		X					3	X					X					X		
	"	"	"	MW-5	1105		X					3	X					X					X		
	"	"	"	MW-6	1305		X					3	X					X					X		
	"	"	"	MW-7	1415		X					3	X					X					X		
	"	"	"	MW-8	1405		X					3	X					X					X		
	"	"	"	MW-9	1435		X					3	X					X					X		
	"	"	"																						

TEMPERATURE ON RECEIPT: 3.1°C

440-116148 Chain of Custody

Relinquished by: (Signature)	1730	Received by: (Signature) (Sample Custodian)	Date: 7/21/15 Time: 1730
Relinquished by: (Signature)	1615	Received by: (Signature) Victor Ramo	Date: 7/22/15 Time: 1615
Relinquished by: (Signature) Victor Ramo		Received by: (Signature)	Date: 7/22/15 Time: 1714

7/23/15 1430

Rec by: 07/24/15 10:00 1.0/1.2 IR-24 (T)
Fed-EX#: 6425 6882 0603

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7/31/2015

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL Houston (_____)
- ☐ KENCO (_____)
- ☑ TEST AMERICA (IRVINE)
- ☐ OTHER (_____)

Please Check Appropriate Box:
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: 240524 Peter Schaefer
INCIDENT # (ENV SERVICES): ☐ CHECK IF NO INCIDENT # APPLIES
PO #
SAP #: 1 3 5 7 0 1
DATE: 7/21/15
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): Anni Kreml, CRA, Emeryville, CA
PHONE NO.: 510-420-3335
E-MAIL: ShellEDF@CRAWorld.com; Shell-US-LabDataManagement@CRAworld.co
CONSULTANT PROJECT NO.: 240524-95-12.01
PROJECT CONTACT (Hardcopy or PDF Report to): Bart Gebbie
SAMPLER NAME(S) (Print): Mark McCulloch
LAB USE ONLY
TELEPHONE: (310) 885-4455 x 103
FAX: (310) 637-5802
E-MAIL: bgebbie@blainetech.com

TURNAROUND TIME (CALENDAR DAYS):
☒ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:
1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabedduploadcraworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.
Copy final report to Shell.Lab.Billing@craworld.com, ShellEDF@craworld.com,Shell-US-LabDataManagement@CRAworld.com, and pschaefer@CRAWorld.com
Email invoice to Shell.Lab.Billing@craworld.com

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

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

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	PRESERVATIVE: HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH-GRO, Purgeable (8260B)	TPH-DRO, Extractable (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	VOCs Full list (8260B)	Single Compound: _____ (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015B)	Container PID Readings or Laboratory Notes
	WG	15072-MM1	07211S	MM	MW-1	1425	WG	X					3	X				X	X					X		
	"	"	"	MM	MW-2																					
	"	"	"	"	MW-3	1445	WG	X					3	X					X					X		
	"	"	"	"	MW-4	1355		X					3	X					X					X		
	"	"	"	"	MW-5	1105		X					3	X					X					X		
	"	"	"	"	MW-6	1305		X					3	X					X					X		
	"	"	"	"	MW-7	1415		X					3	X					X					X		
	"	"	"	"	MW-8	1405		X					3	X					X					X		
	"	"	"	"	MW-9	1435		X					3	X					X					X		
	"	"	"	"																						

TEMPERATURE ON RECEIPT: 3.1C

440-116148 Chain of Custody

Relinquished by: (Signature)	1730	Received by: (Signature) (sample Custodian)	Date: 7/21/15 Time: 1730
Relinquished by: (Signature)	1615	Received by: (Signature) Victor Ramo	Date: 7/22/15 Time: 1615
Relinquished by: (Signature) Victor Ramo		Received by: (Signature)	Date: 7/22/15 Time: 1714

7/23/15 1430

Rec by: 07/24/15 10:00 1.0/1.2C IR-24

Fed-Ex #: 6425 6882 0603

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7/31/2015

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 440-116148-1

Login Number: 116148
List Number: 1
Creator: Kim, Guerry

List Source: TestAmerica Irvine

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

Appendix C
AECOM – Data Tables for 76 Service Station No. 1156

Table 2
Current Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-1B	7/21/2015	174.06	7.64	0	166.42	--	--	--	--	--	--	--	Sampled Q1 only
MW-2B	7/21/2015	173.55	10.35	0	163.20	--	--	--	--	--	--	--	Sampled Q1 only
MW-3B	7/21/2015	177.77	7.28	0	170.49	--	280	4,200	210	100	570	220	
MW-4B	7/21/2015	179.07	7.26	0	171.81	--	--	--	--	--	--	--	Sampled Q1 only
MW-5	7/21/2015	169.18	2.58	0	166.60	--	--	--	--	--	--	--	Sampled Q1 only
MW-7	7/21/2015	172.11	7.48	0	164.63	--	--	--	--	--	--	--	Sampled Q1 only
MW-9A	7/21/2015	173.01	5.87	0	167.14	--	170	7,100	2,700	22	190	23	
MW-9B	7/21/2015	172.78	6.01	0	166.77	--	--	--	--	--	--	--	Sampled Q1 only
MW-10A	7/21/2015	174.48	7.32	0	167.16	--	530	22,000	15,000	190	1,000	960	
MW-10B	7/21/2015	174.62	7.58	0	167.04	--	46	2,600	780	27	100	130	
MW-10S	7/21/2015	175.57	5.92	0	169.65	ND<5,000	ND<40	ND<50	1.6	ND<0.30	6.2	ND<0.60	
MW-11A	7/21/2015	175.37	5.39	0	169.98	--	700	56,000	11,000	6,900	1,800	12,000	
MW-11B	7/21/2015	174.65	5.37	0	169.28	--	430	23,000	10,000	770	960	1,200	
MW-11S	7/21/2015	176.09	6.13	0	169.96	ND<5,000	280	5,100	670	18	420	240	
QA	7/21/2015	--	--	--	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

NOTES:

* TOC and GWE are in feet above mean sea level
Oil and grease analyzed by Environmental Protection Agency (EPA) Method 1664A HEM
TPH-DRO with SGC analyzed by EPA Method 8015B/TPHd
TPH-GRO analyzed by EPA Method 8015B
BTEX analyzed by EPA Method 8260B
µg/L = Micrograms per liter
-- = Not available/not sampled
B = Benzene
DTW = Depth to water below TOC
E = Ethylbenzene
ft = Feet
GWE = Groundwater elevation
ID = Identification
LNAPL = Light non-aqueous phase liquid
ND<# = Analyte not detected at or above indicated practical quantitation limit
QA = Trip blank
T = Toluene
TOC = Top of casing
TPH-DRO W/SGC= Total petroleum hydrocarbons-diesel range organics with silica gel cleanup
TPH-GRO = Total petroleum hydrocarbons-gasoline range organics
X = Total xylenes

Table 3
Current Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	EDB (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-1B	7/21/2015	--	--	--	--	--	--	--	--
MW-2B	7/21/2015	--	--	--	--	--	--	--	--
MW-3B	7/21/2015	23	ND<100	ND<2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-4B	7/21/2015	--	--	--	--	--	--	--	--
MW-5	7/21/2015	--	--	--	--	--	--	--	--
MW-7	7/21/2015	--	--	--	--	--	--	--	--
MW-9A	7/21/2015	ND<5.0	ND<100	ND<2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-9B	7/21/2015	--	--	--	--	--	--	--	--
MW-10A	7/21/2015	420	ND<100	ND<2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-10B	7/21/2015	96	ND<100	ND<2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-10S	7/21/2015	10	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-11A	7/21/2015	2,600	ND<500	ND<12,000	ND<25	ND<25	ND<25	ND<25	ND<25
MW-11B	7/21/2015	1,900	ND<500	ND<12,000	ND<25	ND<25	ND<25	ND<25	ND<25
MW-11S	7/21/2015	190	ND<100	ND<2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
QA	7/21/2015	ND<0.50	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

NOTES:

Oxygenate compounds analyzed by Environmental Protection Agency Method 8260B
µg/L = Micrograms per liter
-- = Not sampled
DIPE = Diisopropyl ether
EDB = 1,2-dibromoethane
EDC = 1,2-dichloroethane
ETBE = Ethyl t-butyl ether
ID = Identification
MTBE = Methyl t-butyl ether
ND<# = Analyte not detected at or above indicated practical quantitation limit
QA = Trip blank
TAME = t-amyl methyl ether
TBA = t-butyl alcohol