Ms. Dilan Roe
Alameda County Environmental Health
1131 Harbor Parkway, Suite 250
Alameda, CA 94502-6577

Shell Oil Products US
DS Soil & Groundwater Focus Delivery Group
20945 S. Wilmington Avenue
Carson, CA 90810
Tel (714) 731 1050
Fax (714) 731 1038
Email Andrea.Wing@shell.com
Internet http://www.shell.com

RE: 2703 Martin Luther King Jr. Way, Oakland, California
PlaNet Site ID USF04645
PlaNet Project ID 27482
ACEH Case No. RO0000145

Dear Ms. Roe:

I am informed and believe that, based on a reasonably diligent inquiry undertaken by AECOM 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

AECOM
1333 Broadway
Suite 800
Oakland, CA 94612
www.aecom.com

510 893 3600 tel
510 874 3268 fax

February 12, 2016

Dilan Roe
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Fourth Quarter 2015 Groundwater Monitoring Report
Former Shell Service Station
2703 Martin Luther King Jr. Way, Oakland, California
Shell PlaNet Site ID: USF04645
Shell PlaNet Project ID: 27482
Agency No. RO0000145

Dear Ms. Roe:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, AECOM Technical Services, Inc. is pleased to submit this report for groundwater monitoring performed during the fourth quarter of 2015 at the Former Shell Service Station located at 2703 Martin Luther King Jr. Way in Oakland, California.

If you have any questions regarding this submittal, please contact Sara Heikkila at 213-996-2285 or Sara.Heikkila@aecom.com.

Sincerely,
AECOM

Casey Huff
Geologist

Aubrey Cool, P.G.
Portfolio Manager

PROFESSIONAL GEOLOGIST
AUBREY K. COOL
No. 7659
Exp. 12/31/17
STATE OF CALIFORNIA

Enclosures: Groundwater Monitoring Report

cc: Andrea Wing, Shell Oil Products US

Rodney & Janet Kwan, Auto Tech West (site owner)
2703 Martin Luther King Jr. Way, Oakland, CA 94612

Monique Oatis, 670 27th Street, Oakland CA (off-site property owner)

AECOM

Fourth Quarter 2015 Groundwater Monitoring Report

Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California

February 12, 2016

AECOM

Fourth Quarter 2015 Groundwater Monitoring Report

Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California

PlaNet Site ID USF04645
PlaNet Project ID 27482
Agency No. RO0000145

Submitted to:

Dilan Roe
Alameda County Environmental Health
1131 Harbor Bay Parkway Suite 250
Alameda, California 94502

Submitted by:

AECOM Technical Services, Inc.
1333 Broadway, Suite 800
Oakland, California 94612

On Behalf of

Shell Oil Products US

February 12, 2016

Table of Contents

List of Figures

List of Tables

List of Appendices

1 Introduction

AECOM Technical Services, Inc. (AECOM) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

1.1 Site Information

Site Name:	Former Shell Service Station
Site Address:	2703 Martin Luther King Jr. Way, Oakland, California
Shell Environmental Services Program Manager:	Andrea Wing
Consulting Company / Contact Person:	AECOM / Aubrey Cool
Primary Agency:	Alameda County Environmental Health (ACEH)

1.2 Site Summary

Frequency of Groundwater Monitoring:	Quarterly
Wells Water Level Gauged:	14
Wells Sampled:	11
Is there any Free Product Present in On-Site Monitoring Wells:	No
Current Remediation Activity:	None, pending submittal of revised corrective action plan (CAP)

2 Site Activities

2.1 Current Activities

On December 16, 2015, AECOM submitted a *Human Health Risk Assessment* (HHRA), which concluded that residual impacts do not pose unacceptable risks to current on- and off-site receptors though there is potential soil vapor intrusion risk to future on-site commercial receptors in some areas of the site. The report recommended resampling soil vapor probes VP-7 and VP-13 and preparing a revised CAP.

On December 18, 2015, Blaine Tech Services, Inc. (Blaine Tech) of San Jose, California gauged and sampled the wells according to the modified monitoring program for this site. TestAmerica Laboratories, Inc., of Irvine, California, a certified California laboratory, completed the analyses of the groundwater samples.

AECOM prepared a Site Vicinity Map (Figure 1), a Groundwater Contour and Chemical Concentration Map (Figure 2), and a Groundwater Data table (Table 1). Blaine Tech's field notes are presented in Appendix A, and the laboratory report is presented in Appendix B.

2.2 Current Findings

Groundwater Elevation:	14.52 to 20.15 feet above mean sea level
Groundwater Gradient (direction):	Northwest
Groundwater Gradient (magnitude):	0.03 feet per foot

2.3 Proposed Activities

ACEH issued a January 19, 2016 letter that concurred with the recommendations in the HHRA and requested that a revised CAP be submitted by April 26, 2016.

Blaine will gauge and sample wells according to the modified monitoring program for this site. This site is monitored quarterly. AECOM will issue groundwater monitoring reports quarterly following the sampling events.

3 Conclusions and Recommendations

During the December 18, 2015 sampling event, seven wells (MW-4 through MW-8, MW-14, and V-1) were analyzed for TPHg, benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), and tertiary amyl methyl ether (TAME). Four wells (MW-10, MW-11, MW-13, and V-2) were analyzed for TPHg and BTEX only.

- TPHg was detected in ten wells at concentrations ranging from 450 micrograms per liter (µg/L) (MW-10) to 93,000 µg/L (MW-5).

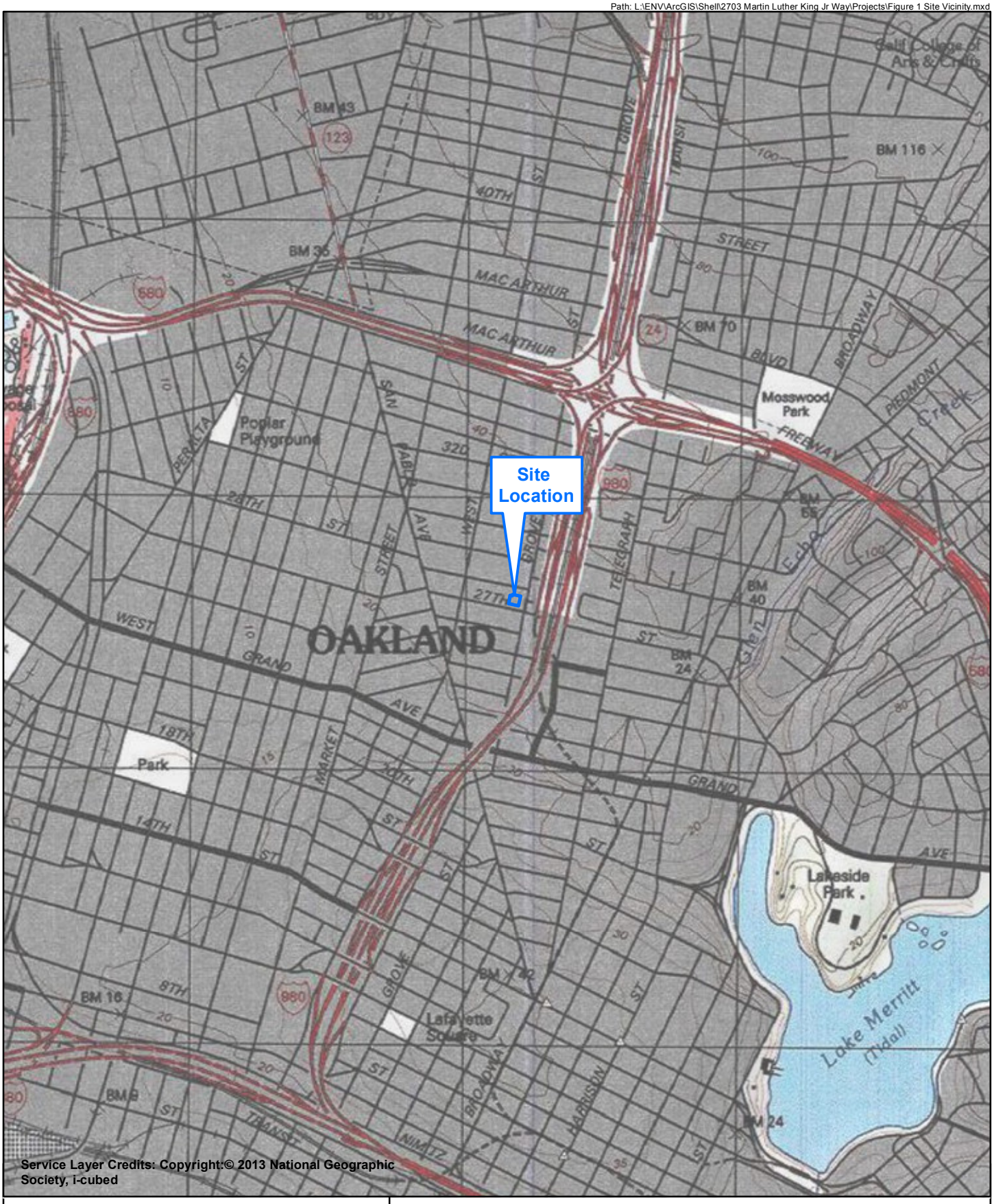
- Benzene was detected in ten wells at concentrations ranging from 1.2 µg/L (MW-10) to 6,200 µg/L (MW-5).
- Toluene was detected in six wells at concentrations ranging from 4.3 µg/L (MW-8) to 4,100 µg/L (MW-5).
- Ethylbenzene was detected in ten wells at concentrations ranging from 3.9 µg/L (MW-13) to 6,000 µg/L (MW-5).
- Total xylenes were detected in nine wells at concentrations ranging from 1.1 µg/L (MW-10) to 26,000 µg/L (MW-5).
- DIPE was detected in one well, MW-6, at a concentration of 1.9 µg/L.
- No MTBE, TBA, ETBE, or TAME were detected.

AECOM recommends continuing with the modified groundwater monitoring program at least until well MW-13 has been sampled quarterly for one year.

As discussed above, we will resample vapor probes VP-7 and VP-13 and will submit a revised CAP by April 26, 2016.

Figures

Path: L:\ENV\ArcGIS\Shell\2703 Martin Luther King Jr Way\Projects\Figure 1 Site Vicinity.mxd



N

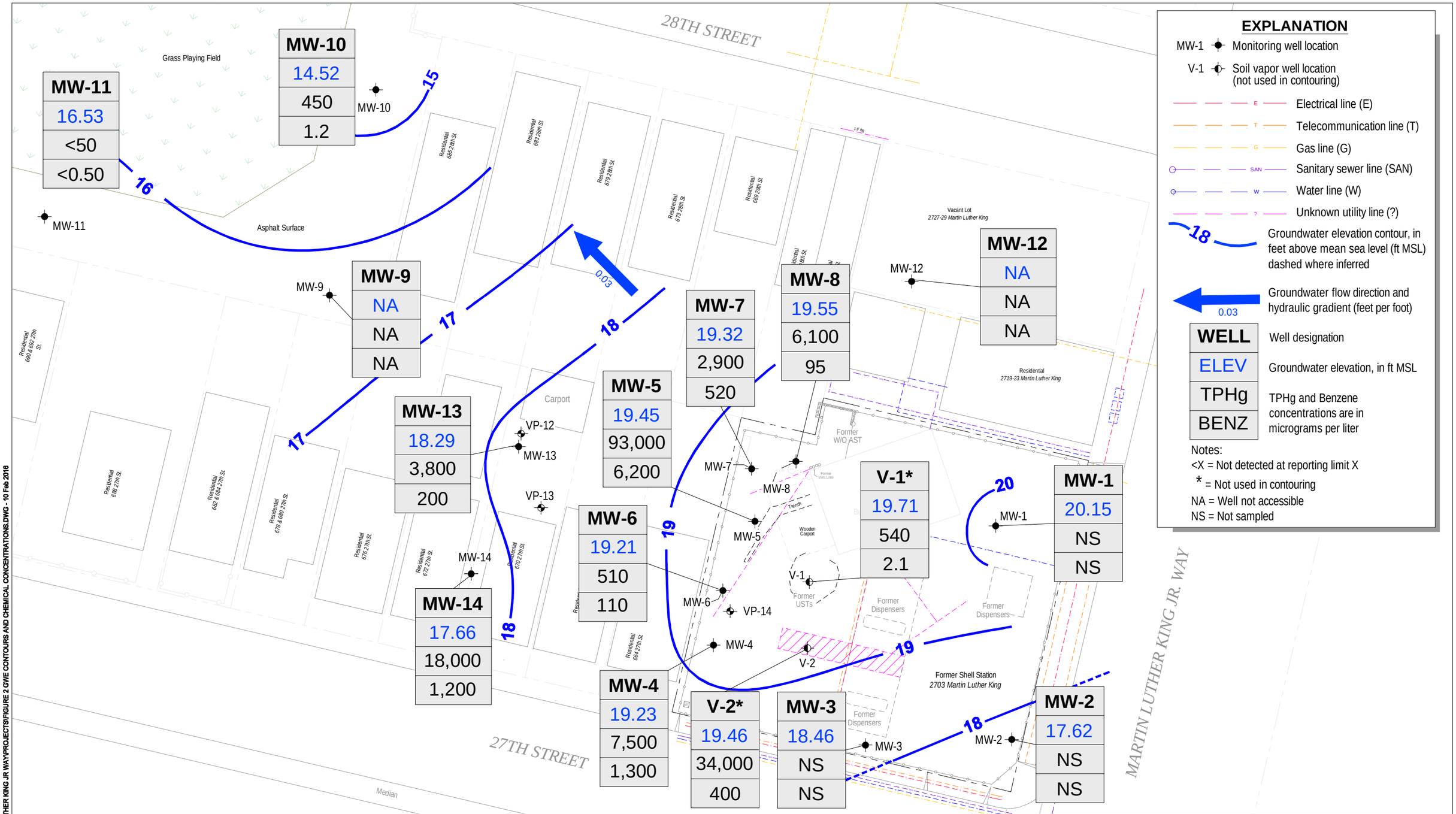
0 2,000 4,000

Feet

Figure 1
Site Vicinity Map

AECOM

Former Shell Service Station
2703 Martin Luther King Jr. Way, Oakland, California



EXPLANATION

- MW-1 — Monitoring well location
- V-1 — Soil vapor well location (not used in contouring)
- Electrical line (E)
- Telecommunication line (T)
- Gas line (G)
- Sanitary sewer line (SAN)
- Water line (W)
- Unknown utility line (?)
- 18 — Groundwater elevation contour, in feet above mean sea level (ft MSL) dashed where inferred
- 0.03 — Groundwater flow direction and hydraulic gradient (feet per foot)

WELL	
ELEV	Groundwater elevation, in ft MSL
TPHg	TPHg and Benzene concentrations are in micrograms per liter
BENZ	

Notes:
<X = Not detected at reporting limit X
* = Not used in contouring
NA = Well not accessible
NS = Not sampled

N

0 15 30
Feet

SOURCE: GHD BASEMAP AND WELL PLACEMENT
SITE WELLS SURVEYED JUNE 14, 2001 BY VIRGIL CHAVEZ LAND SURVEYING.
SITE WELLS SURVEYED AUGUST 13, 2002 BY VIRGIL CHAVEZ LAND SURVEYING.
WELLS MW-1 THROUGH MW-8, V-1, AND V-2 SURVEYED ON FEBRUARY 14, 2006 BY VIRGIL CHAVEZ LAND SURVEYING. WELLS MW-12 AND MW-14 SURVEYED ON APRIL 19, 2006 BY VIRGIL CHAVEZ LAND SURVEYING. WELLS MW-9, MW-10, AND MW-11 SURVEYED ON AUGUST 18, 2010 BY VIRGIL CHAVEZ LAND SURVEYING.

Figure 2
Groundwater Contour and Chemical Concentration Map
December 18, 2015

Former Shell Service Station
AECOM **2703 Martin Luther King Jr. Way, Oakland, California**

L:\ENV\ARCGIS\SHELL\2703 MARTIN LUTHER KING JR WAY\PROJECTS\FIGURE 2 GWE CONTOURS AND CHEMICAL CONCENTRATIONS.DWG - 10 Feb 2016

Tables

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-1	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	8.76	14.77	---
MW-1 (D)	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	---	---	---
MW-1	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	9.88	13.65	---
MW-1	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	6.82	16.71	---
MW-1	04/07/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	7.89	15.64	---
MW-1	07/02/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	8.71	14.82	---
MW-1	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	9.26	14.27	---
MW-1	01/09/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	7.94	15.59	---
MW-1	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	7.21	16.32	---
MW-1	07/14/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	7.78	15.75	---
MW-1	10/01/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	8.39	15.14	---
MW-1	01/18/1999	<50.0	<0.500	0.785	<0.500	<0.500	2.36	---	---	---	---	---	23.53	8.28	15.25	---
MW-1	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.53	8.41	15.12	---
MW-1	08/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	23.53	8.17	15.36	---
MW-1	10/06/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	23.53	9.37	14.16	---
MW-1	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	23.53	7.52	16.01	---
MW-1	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	23.53	7.66	15.87	---
MW-1	07/19/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	23.53	7.81	15.72	---
MW-1	10/24/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	23.53	8.33	15.20	---
MW-1	01/04/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	23.53	8.33	15.20	---
MW-1	05/03/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	23.53	7.83	15.70	---
MW-1	07/09/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	23.53	8.60	14.93	---
MW-1	10/18/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	23.53	9.01	14.52	0.2
MW-1	01/24/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	23.53	7.68	15.85	2.1
MW-1	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	23.53	7.38	16.15	1.1
MW-1	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	23.53	7.75	15.78	2.2
MW-1	10/21/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	29.53	8.10	21.43	1.6
MW-1	01/21/2003	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	29.53	7.82	21.71	0.6
MW-1	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<5.0	---	---	---	---	29.53	7.76	21.77	1.7
MW-1	07/22/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	29.53	7.87	21.66	1.5
MW-1	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	29.53	8.67	20.86	0.8

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-1	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	29.53	8.28	21.25	---
MW-1	01/22/2004	---	---	---	---	---	---	---	---	---	---	---	29.53	8.50	21.03	1.1
MW-1	04/01/2004	---	---	---	---	---	---	---	---	---	---	---	29.53	7.98	21.55	---
MW-1	07/13/2004	---	---	---	---	---	---	---	---	---	---	---	29.53	8.30	21.23	---
MW-1	10/26/2004	---	---	---	---	---	---	---	---	---	---	---	29.53	8.27	21.26	---
MW-1	01/13/2005	---	---	---	---	---	---	---	---	---	---	---	29.53	6.92	22.61	---
MW-1	04/28/2005	---	---	---	---	---	---	---	---	---	---	---	29.53	7.18	22.35	---
MW-1	08/01/2005	---	---	---	---	---	---	---	---	---	---	---	29.53	7.43	22.10	---
MW-1	10/05/2005	---	---	---	---	---	---	---	---	---	---	---	29.53	7.55	21.98	---
MW-1	01/11/2006	---	---	---	---	---	---	---	---	---	---	---	29.54	5.35	24.19	---
MW-1	05/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<10.0	<0.500	<0.500	<0.500	29.54	6.81	22.73	0.78
MW-1	08/30/2006	---	---	---	---	---	---	---	---	---	---	---	29.54	7.77	21.77	---
MW-1	11/08/2006	---	---	---	---	---	---	---	---	---	---	---	29.54	8.39	21.15	---
MW-1	02/22/2007	---	---	---	---	---	---	---	---	---	---	---	29.54	7.11	22.43	---
MW-1	05/29/2007	---	---	---	---	---	---	---	---	---	---	---	29.54	7.20	22.34	---
MW-1	08/27/2007	---	---	---	---	---	---	---	---	---	---	---	29.54	7.86	21.68	---
MW-1	11/08/2007	---	---	---	---	---	---	---	---	---	---	---	29.54	7.89	21.65	---
MW-1	02/20/2008	---	---	---	---	---	---	---	---	---	---	---	29.54	7.38	22.16	---
MW-1	05/01/2008	---	---	---	---	---	---	---	---	---	---	---	29.54	7.58	21.96	---
MW-1	08/12/2008	---	---	---	---	---	---	---	---	---	---	---	29.54	8.85	20.69	---
MW-1	11/26/2008	---	---	---	---	---	---	---	---	---	---	---	29.54	8.90	20.64	---
MW-1	02/03/2009	---	---	---	---	---	---	---	---	---	---	---	29.54	8.51	21.03	---
MW-1	06/02/2009	---	---	---	---	---	---	---	---	---	---	---	29.54	8.45	21.09	---
MW-1	11/10/2009	---	---	---	---	---	---	---	---	---	---	---	29.54	8.89	20.65	---
MW-1	05/10/2010	---	---	---	---	---	---	---	---	---	---	---	29.54	7.22	22.32	---
MW-1	09/09/2010	---	---	---	---	---	---	---	---	---	---	---	29.54	7.88	21.66	---
MW-1	12/03/2010	---	---	---	---	---	---	---	---	---	---	---	29.54	7.98	21.56	---
MW-1	03/02/2011	---	---	---	---	---	---	---	---	---	---	---	29.54	7.52	22.02	---
MW-1	05/31/2011	---	---	---	---	---	---	---	---	---	---	---	29.54	7.28	22.26	---
MW-1	12/13/2011	---	---	---	---	---	---	---	---	---	---	---	29.54	7.64	21.90	---
MW-1	06/13/2012	---	---	---	---	---	---	---	---	---	---	---	29.54	7.56	21.98	---

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-1	11/19/2012	---	---	---	---	---	---	---	---	---	---	---	29.54	8.48	21.06	---
MW-1	05/30/2013	---	---	---	---	---	---	---	---	---	---	---	29.54	7.32	22.22	---
MW-1	11/18/2013	---	---	---	---	---	---	---	---	---	---	---	29.54	9.11	20.43	---
MW-1	06/06/2014	---	---	---	---	---	---	---	---	---	---	---	29.54	8.40	21.14	---
MW-1	12/01/2014	---	---	---	---	---	---	---	---	---	---	---	29.54	9.37	20.17	---
MW-1	05/22/2015	---	---	---	---	---	---	---	---	---	---	---	29.54	7.45	22.09	---
MW-1	**12/18/2015**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**29.54**	**9.39**	**20.15**	**---**
MW-2	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	22.47	8.35	14.12	---
MW-2	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	22.47	9.32	13.15	---
MW-2 (D)	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	22.47	---	---	---
MW-2	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	22.47	6.80	15.67	---
MW-2 (D)	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	22.47	---	---	---
MW-2	04/07/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	22.47	7.81	14.66	---
MW-2	07/02/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	22.47	8.27	14.20	---
MW-2	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	22.47	9.12	13.35	---
MW-2	01/09/1998	<50	<0.50	<0.50	<0.50	<0.50	6.3	---	---	---	---	---	22.47	7.41	15.06	---
MW-2	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	22.47	6.59	15.88	---
MW-2	07/14/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	22.47	7.49	14.98	---
MW-2	10/01/1998	<50	<0.50	<0.50	<0.50	0.59	<2.5	---	---	---	---	---	22.47	8.58	13.89	---
MW-2	01/18/1999	<50.0	<0.500	0.971	<0.500	<0.500	2.47	---	---	---	---	---	22.47	8.68	13.79	---
MW-2	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	22.47	8.62	13.85	---
MW-2	08/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	22.47	7.43	15.04	---
MW-2	10/06/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	22.47	9.00	13.47	---
MW-2	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	22.47	8.15	14.32	---
MW-2	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	22.47	7.04	15.43	---
MW-2	07/19/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	22.47	7.13	15.34	---
MW-2	10/24/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	22.47	8.78	13.69	---
MW-2	01/04/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	22.47	8.33	14.14	---
MW-2	05/03/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.47	7.24	15.23	---
MW-2	07/09/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.47	8.55	13.92	---

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-2	10/18/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.47	9.42	13.05	---
MW-2	01/24/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.47	7.23	15.24	---
MW-2	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.47	6.90	15.57	---
MW-2	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.47	7.97	14.50	---
MW-2	10/21/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	28.47	8.62	19.85	---
MW-2	01/21/2003	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	28.47	7.08	21.39	---
MW-2	04/17/2003	<50	<0.50	<0.50	0.98	2.5	---	<5.0	---	---	---	---	28.47	6.94	21.53	---
MW-2	07/22/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	28.47	8.10	20.37	---
MW-2	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	28.47	9.09	19.38	---
MW-2	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	28.47	7.28	21.19	---
MW-2	01/22/2004	---	---	---	---	---	---	---	---	---	---	---	28.47	8.99	19.48	2.8
MW-2	04/01/2004	---	---	---	---	---	---	---	---	---	---	---	28.47	6.88	21.59	---
MW-2	07/13/2004	---	---	---	---	---	---	---	---	---	---	---	28.47	8.28	20.19	---
MW-2	10/26/2004	---	---	---	---	---	---	---	---	---	---	---	28.47	8.43	20.04	---
MW-2	01/13/2005	---	---	---	---	---	---	---	---	---	---	---	28.47	6.52	21.95	---
MW-2	04/28/2005	---	---	---	---	---	---	---	---	---	---	---	28.47	6.38	22.09	---
MW-2	08/01/2005	---	---	---	---	---	---	---	---	---	---	---	28.47	7.73	20.74	---
MW-2	10/05/2005	---	---	---	---	---	---	---	---	---	---	---	28.47	8.47	20.00	---
MW-2	01/11/2006	---	---	---	---	---	---	---	---	---	---	---	28.48	6.30	22.18	---
MW-2	05/26/2006	59.9	<0.500	<0.500	<0.500	<0.500	---	<0.500	<10.0	<0.500	<0.500	<0.500	28.48	6.84	21.64	3.02
MW-2	08/30/2006	---	---	---	---	---	---	---	---	---	---	---	28.48	8.11	20.37	---
MW-2	11/08/2006	---	---	---	---	---	---	---	---	---	---	---	28.48	8.61	19.87	---
MW-2	02/22/2007	---	---	---	---	---	---	---	---	---	---	---	28.48	6.92	21.56	---
MW-2	05/29/2007	---	---	---	---	---	---	---	---	---	---	---	28.48	7.32	21.16	---
MW-2	08/27/2007	---	---	---	---	---	---	---	---	---	---	---	28.48	8.38	20.10	---
MW-2	11/08/2007	---	---	---	---	---	---	---	---	---	---	---	28.48	8.58	19.90	---
MW-2	02/20/2008	---	---	---	---	---	---	---	---	---	---	---	28.48	6.48	22.00	---
MW-2	05/01/2008	---	---	---	---	---	---	---	---	---	---	---	28.48	19.00	9.48	---
MW-2	08/12/2008	---	---	---	---	---	---	---	---	---	---	---	28.48	8.53	19.95	---
MW-2	11/26/2008	---	---	---	---	---	---	---	---	---	---	---	28.48	8.88	19.60	---
MW-2	02/03/2009	---	---	---	---	---	---	---	---	---	---	---	28.48	8.20	20.28	---

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-2	06/02/2009	---	---	---	---	---	---	---	---	---	---	---	28.48	7.50	20.98	---
MW-2	11/10/2009	---	---	---	---	---	---	---	---	---	---	---	28.48	8.69	19.79	---
MW-2	05/10/2010	---	---	---	---	---	---	---	---	---	---	---	28.48	7.09	21.39	---
MW-2	09/09/2010	---	---	---	---	---	---	---	---	---	---	---	28.48	8.70	19.78	---
MW-2	12/03/2010	---	---	---	---	---	---	---	---	---	---	---	28.48	8.22	20.26	---
MW-2	03/02/2011	---	---	---	---	---	---	---	---	---	---	---	28.48	6.40	22.08	---
MW-2	05/31/2011	---	---	---	---	---	---	---	---	---	---	---	28.48	7.46	21.02	---
MW-2	12/13/2011	---	---	---	---	---	---	---	---	---	---	---	28.48	8.28	20.20	---
MW-2	06/13/2012	---	---	---	---	---	---	---	---	---	---	---	28.48	7.51	20.97	---
MW-2	11/19/2012	---	---	---	---	---	---	---	---	---	---	---	28.48	8.85	19.63	---
MW-2	05/30/2013	---	---	---	---	---	---	---	---	---	---	---	28.48	7.82	20.66	---
MW-2	11/18/2013	---	---	---	---	---	---	---	---	---	---	---	28.48	9.55	18.93	---
MW-2	06/06/2014	---	---	---	---	---	---	---	---	---	---	---	28.48	7.99	20.49	---
MW-2	12/01/2014	---	---	---	---	---	---	---	---	---	---	---	28.48	9.52	18.96	---
MW-2	05/22/2015	---	---	---	---	---	---	---	---	---	---	---	28.48	8.30	20.18	---
MW-2	**12/18/2015**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**28.48**	**10.86**	**17.62**	**---**
MW-3	04/25/2001	---	---	---	---	---	---	---	---	---	---	---	22.30	7.16	15.14	---
MW-3	05/03/2001	<100	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.30	7.28	15.02	---
MW-3	07/09/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.30	8.45	13.85	---
MW-3	10/18/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.30	9.44	12.86	---
MW-3	01/24/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.30	5.88	16.42	---
MW-3	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.30	6.68	15.62	---
MW-3	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	22.30	7.63	14.67	---
MW-3	10/21/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	28.30	8.56	19.74	---
MW-3	01/21/2003	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	28.30	6.95	21.35	---
MW-3	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<5.0	---	---	---	---	28.30	6.77	21.53	---
MW-3	07/22/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	28.30	7.92	20.38	---
MW-3	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	28.30	9.12	19.18	---
MW-3	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	28.30	7.21	21.09	---
MW-3	01/22/2004	---	---	---	---	---	---	---	---	---	---	---	28.30	9.00	19.30	0.6

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-3	04/01/2004	---	---	---	---	---	---	---	---	---	---	---	28.30	6.65	21.65	---
MW-3	07/13/2004	---	---	---	---	---	---	---	---	---	---	---	28.30	8.24	20.06	---
MW-3	10/26/2004	---	---	---	---	---	---	---	---	---	---	---	28.30	8.50	19.80	---
MW-3	01/13/2005	---	---	---	---	---	---	---	---	---	---	---	28.30	6.32	21.98	---
MW-3	04/28/2005	---	---	---	---	---	---	---	---	---	---	---	28.30	6.05	22.25	---
MW-3	08/01/2005	---	---	---	---	---	---	---	---	---	---	---	28.30	7.65	20.65	---
MW-3	10/05/2005	---	---	---	---	---	---	---	---	---	---	---	28.30	8.31	19.99	---
MW-3	01/11/2006	---	---	---	---	---	---	---	---	---	---	---	28.30	6.10	22.20	---
MW-3	05/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<10.0	2.87	<0.500	<0.500	28.30	6.72	21.58	1.46
MW-3	08/30/2006	---	---	---	---	---	---	---	---	---	---	---	28.30	8.12	20.18	---
MW-3	11/08/2006	---	---	---	---	---	---	---	---	---	---	---	28.30	8.71	19.59	---
MW-3	02/22/2007	---	---	---	---	---	---	---	---	---	---	---	28.30	6.78	21.52	---
MW-3	05/29/2007	---	---	---	---	---	---	---	---	---	---	---	28.30	7.20	21.10	---
MW-3	08/27/2007	---	---	---	---	---	---	---	---	---	---	---	28.30	8.18	20.12	---
MW-3	11/08/2007	---	---	---	---	---	---	---	---	---	---	---	28.30	8.41	19.89	---
MW-3	02/20/2008	---	---	---	---	---	---	---	---	---	---	---	28.30	6.31	21.99	---
MW-3	05/01/2008	---	---	---	---	---	---	---	---	---	---	---	28.30	7.52	20.78	---
MW-3	08/12/2008	---	---	---	---	---	---	---	---	---	---	---	28.30	8.32	19.98	---
MW-3	11/26/2008	---	---	---	---	---	---	---	---	---	---	---	28.30	8.71	19.59	---
MW-3	02/03/2009	---	---	---	---	---	---	---	---	---	---	---	28.30	8.08	20.22	---
MW-3	06/02/2009	---	---	---	---	---	---	---	---	---	---	---	28.30	7.28	21.02	---
MW-3	11/10/2009	---	---	---	---	---	---	---	---	---	---	---	28.30	8.72	19.58	---
MW-3	05/10/2010	---	---	---	---	---	---	---	---	---	---	---	28.30	6.71	21.59	---
MW-3	09/09/2010	---	---	---	---	---	---	---	---	---	---	---	28.30	8.59	19.71	---
MW-3	12/03/2010	---	---	---	---	---	---	---	---	---	---	---	28.30	8.26	20.04	---
MW-3	03/02/2011	---	---	---	---	---	---	---	---	---	---	---	28.30	6.12	22.18	---
MW-3	05/31/2011	---	---	---	---	---	---	---	---	---	---	---	28.30	7.32	20.98	---
MW-3	12/13/2011	---	---	---	---	---	---	---	---	---	---	---	28.30	8.19	20.11	---
MW-3	06/13/2012	---	---	---	---	---	---	---	---	---	---	---	28.30	7.40	20.90	---
MW-3	11/19/2012	---	---	---	---	---	---	---	---	---	---	---	28.30	8.71	19.59	---
MW-3	05/30/2013	---	---	---	---	---	---	---	---	---	---	---	28.30	7.52	20.78	---

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-3	11/18/2013	---	---	---	---	---	---	---	---	---	---	---	28.30	9.33	18.97	---
MW-3	06/06/2014	---	---	---	---	---	---	---	---	---	---	---	28.30	7.68	20.62	---
MW-3	12/01/2014	---	---	---	---	---	---	---	---	---	---	---	28.30	9.41	18.89	---
MW-3	05/22/2015	---	---	---	---	---	---	---	---	---	---	---	28.30	8.07	20.23	---
MW-3	**12/18/2015**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**28.30**	**9.84**	**18.46**	**---**
MW-4	04/25/2001	---	---	---	---	---	---	---	---	---	---	---	22.51	7.05	15.46	---
MW-4	05/03/2001	8,000	3,500	24	37	350	---	<200	---	---	---	---	22.51	6.66	15.85	---
MW-4	07/09/2001	16,000	4,100	32	890	790	---	<200	---	---	---	---	22.51	8.28	14.23	---
MW-4	10/18/2001	12,000	3,300	<20	430	220	---	<200	---	---	---	---	22.51	9.40	13.11	---
MW-4	01/24/2002	5,500	1,200	<5.0	280	240	---	<50	---	---	---	---	22.51	5.73	16.78	---
MW-4	04/04/2002	2,000	350	1.4	13	7.8	---	<10	---	---	---	---	22.51	5.62	16.89	---
MW-4	07/18/2002	3,400	440	1.3	200	98	---	<5.0	---	---	---	---	22.51	6.94	15.57	---
MW-4	10/21/2002	16,000	3,100	11	1,200	970	---	<5.0	---	---	---	---	28.51	8.04	20.47	---
MW-4	01/21/2003	3,600	720	3.9	110	58	---	<25	---	---	---	---	28.51	6.10	22.41	---
MW-4	04/17/2003	3,700	810	<5.0	140	17	---	<50	---	---	---	---	28.51	5.97	22.54	---
MW-4	07/22/2003	3,700	450	<2.5	110	7.9	---	<2.5	---	---	---	---	28.51	6.37	22.14	---
MW-4	10/20/2003	11,000 b	2,500	<20	550	95	---	<20	---	---	---	---	28.51	8.99	19.52	---
MW-4	01/13/2004	6,600	1,500	<10	41	37	---	<10	---	---	---	---	28.51	6.67	21.84	---
MW-4	01/22/2004	---	---	---	---	---	---	---	---	---	---	---	28.51	8.80	19.71	0.3
MW-4	04/01/2004	9,500	2,100	12	170	30	---	---	---	---	---	---	28.51	6.28	22.23	0.1
MW-4	07/13/2004	12,000	3,600	39	160	58	---	<25	<250	<100	<100	<100	28.51	8.20	20.31	0.1
MW-4	10/26/2004	11,000	2,800	<25	100	<50	---	---	---	---	---	---	28.51	8.00	20.51	0.6
MW-4	01/13/2005	12,000	2,200	14	110	43	---	---	---	---	---	---	28.51	6.03	22.48	0.1
MW-4	04/28/2005	8,600	2,300	27	200	49	---	---	---	---	---	---	28.51	5.93	22.58	3.71
MW-4	08/01/2005	11,000	3,900	57	180	47	---	<10	<100	<40	<40	<40	28.51	6.20	22.31	---
MW-4	10/05/2005	9,400	3,300	45	88	33	---	---	---	---	---	---	28.51	8.22	20.29	2.76
MW-4	01/11/2006	3,900 a	1,700 a	14	95	78	---	<0.50	32	7.4	<0.50	<0.50	28.51	4.25	24.26	0.6
MW-4	05/26/2006	6,730	455	1.90	56.7	44.8	---	<0.500	<10.0	4.36	<0.500	<0.500	28.51	5.90	22.61	0.54
MW-4	08/30/2006	29,600	2,740	30.0	448	237	---	<0.500	<10.0	<0.500	<0.500	<0.500	28.51	7.98	20.53	0.44/0.46
MW-4	11/08/2006	6,300	1,500	13	130	67	---	---	---	---	---	---	28.51	8.52	19.99	0.05/0.22

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-4	02/22/2007	11,000	2,200	18	620	310	---	---	---	---	---	---	28.51	5.63	22.88	2.96/2.98
MW-4	05/29/2007	14,000 b, f	3,200	27	640	249.0	---	---	---	---	---	---	28.51	6.60	21.91	0.19/0.11
MW-4	08/27/2007	12,000 f	1,900	19 g	250	80.9 g	---	<25	<250	<50	<50	<50	28.51	8.50	20.01	0.85/1.71
MW-4	11/08/2007	6,400 f	1,400	11 g	70	37.9 g	---	---	---	---	---	---	28.51	8.21	20.30	1.09/2.63
MW-4	02/20/2008	12,000 f	2,700	<20	690	396	---	---	---	---	---	---	28.51	4.86	23.65	0.46/0.12
MW-4	05/01/2008	8,500	2,000	<20	260	62	---	---	---	---	---	---	28.51	7.00	21.51	0.2/0.2
MW-4	08/12/2008	8,400	1,800	22	<20	24	---	<20	<200	<40	<40	<40	28.51	8.31	20.20	0.21/0.68
MW-4	11/26/2008	6,900	1,800	<20	120	<20	---	---	---	---	---	---	28.51	8.94	19.57	0.88/2.18
MW-4	02/03/2009	8,800	1,800	<20	160	96	---	---	---	---	---	---	28.51	7.64	20.87	0.15/0.26
MW-4	06/02/2009	15,000	3,000	58	340	55	---	---	---	---	---	---	28.51	6.82	21.69	0.26/0.65
MW-4	11/10/2009	13,000	2,200	37	180	91	---	<20	<200	<40	<40	<40	28.51	8.38	20.13	0.61/0.57
MW-4	05/10/2010	12,000	3,100	37	570	140	---	---	---	---	---	---	28.51	5.42	23.09	0.26/2.84
MW-4	09/09/2010	---	---	---	---	---	---	---	---	---	---	---	28.51	8.31	20.20	---
MW-4	12/03/2010	6,400	1,600	21	96	68	---	<20	<200	<40	<40	<40	28.51	7.75	20.76	0.52/0.45
MW-4	03/02/2011	---	---	---	---	---	---	---	---	---	---	---	28.51	4.25	24.26	---
MW-4	05/31/2011	11,000	3,200	61	520	68	---	---	---	---	---	---	28.51	6.34	22.17	1.46/2.63
MW-4	12/13/2011	4,000	1,120	31.1	83.0	30.3	---	<0.500	<10.0	4.64	<0.500	<0.500	28.51	7.90	20.61	0.59/0.19
MW-4	06/13/2012	12,000	3,500	47	270	<50	---	---	---	---	---	---	28.51	6.90	21.61	1.03/0.96
MW-4	11/19/2012	8,300	1,800	88	120	310	---	<25	<500	<25	<25	<25	28.51	8.34	20.17	0.88/1.02
MW-4	05/30/2013	11,000	3,400	68	220	40	---	---	---	---	---	---	28.51	7.38	21.13	0.10/0.07
MW-4	11/18/2013	10,000	2,400	33	43	<40	---	<20	<400	<20	<20	<20	28.51	9.13	19.38	0.27/0.24
MW-4	06/06/2014	8,900	1,800	<25	110	55	---	---	---	---	---	---	28.51	7.28	21.23	0.46/0.50
MW-4	12/01/2014	8,500 i	1,400	17	33	91	---	<10	<200	<10	<10	<10	28.51	8.80	19.71	0.48/1.17
MW-4	05/22/2015	7,100	1,500	48	54	<40	---	---	---	---	---	---	28.51	7.50	21.01	1.01/0.73
MW-4	**12/18/2015**	**7,500**	**1,300**	**72**	**75**	**290**	**---**	**<10**	**<200**	**<10**	**<10**	**<10**	**28.51**	**9.28**	**19.23**	**1.58/2.35**
MW-5	04/25/2001	---	---	---	---	---	---	---	---	---	---	---	23.54	7.36	16.18	---
MW-5	05/03/2001	160,000	12,000	20,000	3,600	23,000	---	<500	---	---	---	---	23.54	7.77	15.77	---
MW-5	07/09/2001	130,000	11,000	19,000	4,500	22,000	---	<500	---	---	---	---	23.54	9.32	14.22	---
MW-5	10/18/2001	120,000	12,000	23,000	4,200	21,000	---	<500	---	---	---	---	23.54	9.39	14.15	0.5
MW-5	01/24/2002	34,000	3,300	3,300	960	6,000	---	<100	---	---	---	---	23.54	7.05	16.49	4.0

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-5	04/04/2002	32,000	2,100	2,800	730	6,400	---	<200	---	---	---	---	23.54	6.89	16.65	1.0
MW-5	07/18/2002	75,000	7,500	4,700	2,700	15,000	---	<500	---	---	---	---	23.54	8.48	15.06	1.2
MW-5	10/21/2002	140,000	13,000	18,000	4,000	26,000	---	<500	---	---	---	---	29.54	9.21	20.33	1.1
MW-5	01/21/2003	47,000	6,400	3,500	370	8,300	---	<500	---	---	---	---	29.54	7.23	22.31	0.8
MW-5	04/17/2003	93,000	9,700	16,000	3,200	20,000	---	<500	---	---	---	---	29.54	6.61	22.93	0.8
MW-5	07/22/2003	110,000	9,500	15,000	560	23,000	---	<50	---	---	---	---	29.54	8.68	20.86	1.2
MW-5	10/20/2003	88,000	6,600	12,000	1,900	16,000	---	<50	---	---	---	---	29.54	9.71	19.83	0.1
MW-5	01/13/2004	4,600	460	140	<10	930	---	<10	---	---	---	---	29.54	7.30	22.24	---
MW-5	01/22/2004	---	---	---	---	---	---	---	---	---	---	---	29.54	9.51	20.03	0.3
MW-5	04/01/2004	70,000	7,900	11,000	2,100	17,000	---	---	---	---	---	---	29.54	6.80	22.74	0.1
MW-5	07/13/2004	66,000	5,900	10,000	1,900	16,000	---	<50	<500	<200	<200	<200	29.54	9.28	20.26	0.1
MW-5	10/26/2004	6,600	670	110	7.4	2,000	---	---	---	---	---	---	29.54	8.75	20.79	0.8
MW-5	01/13/2005	9,500	1,300	950	360	1,900	---	---	---	---	---	---	29.54	5.87	23.67	6.3
MW-5	04/28/2005	17,000	2,400	1,200	320	3,400	---	---	---	---	---	---	29.54	6.32	23.22	3.54
MW-5	08/01/2005	70,000	6,600	11,000	3,400	17,000	---	<50	<500	<200	<200	<200	29.54	8.27	21.27	---
MW-5	10/05/2005	93,000	8,600	15,000	4,500	23,000	---	---	---	---	---	---	29.54	9.12	20.42	1.43
MW-5	01/11/2006	12,000	1,900	550	2,400	3,800	---	<25	<250	<25	<25	<25	29.61	5.52	24.09	0.6
MW-5	05/26/2006	112,000	6,600	11,100	3,870	19,900 e	---	<0.500	<10.0	5.37	<0.500	<0.500	29.61	7.02	22.59	0.45
MW-5	08/30/2006	281,000	8,050	15,400	4,770	26,800	---	<0.500	<10.0	<0.500	<0.500	60.6	29.61	8.93	20.68	0.55/0.51
MW-5	11/08/2006	83,000	7,000	7,400	3,200	16,000	---	---	---	---	---	---	29.61	9.40	20.21	0.08/0.05
MW-5	02/22/2007	35,000	9,500	13,000	5,300	23,000	---	---	---	---	---	---	29.61	6.87	22.74	1.17/3.17
MW-5	05/29/2007	94,000 f	6,400	9,900	4,300	22,000	---	---	---	---	---	---	29.61	7.85	21.76	0.08/0.19
MW-5	08/27/2007	110,000 f	6,900	11,000	4,300	22,000	---	<100	<1000	<200	<200	<200	29.61	9.13	20.48	0.08/0.22
MW-5	11/08/2007	61,000 f	7,500	5,300	4,700	20,400	---	---	---	---	---	---	29.61	9.27	20.34	2.15/0.65
MW-5	02/20/2008	92,000 f	14,000	14,000	5,900	30,800	---	---	---	---	---	---	29.61	6.02	23.59	0.17/0.18
MW-5	05/01/2008	130,000	8,200	12,000	4,600	24,900	---	---	---	---	---	---	29.61	8.20	21.41	0.2/0.1
MW-5	08/12/2008	150,000	7,600	12,000	8,900	24,800	---	<100	<1,000	<200	<200	<200	29.61	9.42	20.19	0.14/0.51
MW-5	11/26/2008	110,000	7,900	12,000	4,500	27,500	---	---	---	---	---	---	29.61	9.86	19.75	1.26/0.95
MW-5	02/03/2009	130,000	8,500	10,000	4,400	24,000	---	---	---	---	---	---	29.61	8.67	20.94	0.30/0.23
MW-5	06/02/2009	150,000	7,000	10,000	4,600	25,000	---	---	---	---	---	---	29.61	8.02	21.59	0.28/0.28
MW-5	11/10/2009	150,000	6,900	10,000	4,600	26,000	---	<100	<1000	<200	<200	<200	29.61	9.41	20.20	0.48/0.49

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-5	05/10/2010	80,000	5,700	7,100	4,000	22,000	---	---	---	---	---	---	29.61	6.72	22.89	0.22/0.29
MW-5	09/09/2010	---	---	---	---	---	---	---	---	---	---	---	29.61	9.51	20.10	---
MW-5	12/03/2010	73,000	5,400	8,500	4,100	21,000	---	<100	<1,000	<200	<200	<200	29.61	8.70	20.91	0.39/0.38
MW-5	03/02/2011	---	---	---	---	---	---	---	---	---	---	---	29.61	5.04	24.57	---
MW-5	05/31/2011	72,000	5,800	7,000	4,400	23,000	---	---	---	---	---	---	29.61	7.52	22.09	0.92/1.21
MW-5	12/13/2011	130,000	9,070	10,900	7,200	38,000	---	<0.500	<10.0	<0.500	<0.500	<0.500	29.61	8.85	20.76	0.66/0.47
MW-5	06/13/2012	110,000	5,400	7,400	5,700	29,000	---	---	---	---	---	---	29.61	7.97	21.64	1.10/1.15
MW-5	11/19/2012	98,000	6,100	7,600	5,500	30,000	---	<50	<1,000	<50	<50	<50	29.61	9.30	20.31	1.45/1.27
MW-5	05/30/2013	96,000	6,000	7,200	5,700	30,000	---	---	---	---	---	---	29.61	8.43	21.18	0.07/0.10
MW-5	11/18/2013	74,000	5,000	5,300	4,400	24,000	---	<50	<1,000	<50	<50	<50	29.61	10.36	19.25	0.34/0.30
MW-5	06/06/2014	95,000 h	6,200	5,800	5,900	31,000	---	---	---	---	---	---	29.61	8.46	21.15	0.61/0.69
MW-5	12/01/2014	85,000	4,900	4,400	4,700	22,000	---	<50	<1,000	<50	<50	<50	29.61	9.84	19.77	0.47/0.29
MW-5	05/22/2015	99,000	5,300	4,100	5,000	27,000	---	---	---	---	---	---	29.61	8.64	20.97	0.33/0.29
MW-5	**12/18/2015**	**93,000**	**6,200**	**4,100**	**6,000**	**26,000**	**---**	**<100**	**<2,000**	**<100**	**<100**	**<100**	**29.61**	**10.16**	**19.45**	**0.70/0.55**
MW-6	01/09/2006	---	---	---	---	---	---	---	---	---	---	---	28.60	4.18	24.42	---
MW-6	01/11/2006	150,000	9,300	1,600	5,100	24,000	---	<2.5 a	51 a	17 a	<2.5 a	<2.5 a	28.60	4.50	24.10	3.6
MW-6	05/26/2006	67,300	6,930	870	2,440	7,590 e	---	<5.00	<100	10.1	<5.00	<5.00	28.60	6.10	22.50	0.49
MW-6	08/30/2006	7,060	6,090	1,180	2,040	7,200	---	<0.500	<10.0	<0.500	<0.500	<0.500	28.60	8.05	20.55	0.39/0.56
MW-6	11/08/2006	8,200	1,900	200	350	890	---	---	---	---	---	---	28.60	8.53	20.07	0.12/0.95
MW-6	02/22/2007	49,000	7,300	2,300	3,600	9,500	---	---	---	---	---	---	28.60	5.94	22.66	1.54/2.03
MW-6	05/29/2007	30,000 b, f	4,100	1,000	1,600	4,900	---	---	---	---	---	---	28.60	6.87	21.73	0.11/0.51
MW-6	08/27/2007	36,000 f	2,000	440	1,000	3,400	---	<25	<250	15 g	<50	<50	28.60	8.22	20.38	0.08/0.15
MW-6	11/08/2007	7,000 f	850	130	270	880	---	---	---	---	---	---	28.60	8.32	20.28	0.94/2.48
MW-6	02/20/2008	28,000 f	6,900	1,300	1,900	7,000	---	---	---	---	---	---	28.60	5.03	23.57	0.14/0.09
MW-6	05/01/2008	24,000	4,400	940	1,000	3,500	---	---	---	---	---	---	28.60	7.15	21.45	0.05/0.04
MW-6	08/12/2008	30,000	1,900	380	1,300	3,600	---	<50	<500	<100	<100	<100	28.60	8.49	20.11	0.49/0.99
MW-6	11/26/2008	15,000	2,400	320	590	2,120	---	---	---	---	---	---	28.60	8.93	19.67	0.79/2.30
MW-6	02/03/2009	25,000	3,000	330	790	3,000	---	---	---	---	---	---	28.60	7.69	20.91	0.24/0.09
MW-6	06/02/2009	Well inaccessible		---	---	---	---	---	---	---	---	---	28.60	---	---	---
MW-6	11/10/2009	19,000	2,500	490	620	2,200	---	<25	<250	<50	<50	<50	28.60	8.47	20.13	2.82/1.98

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-6	05/10/2010	15,000	4,100	700	790	2,300	---	---	---	---	---	---	28.60	5.64	22.96	0.21/0.35
MW-6	09/09/2010	---	---	---	---	---	---	---	---	---	---	---	28.60	8.54	20.06	---
MW-6	12/03/2010	5,700	1,800	240	250	870	---	<25	<250	<50	<50	<50	28.60	7.88	20.72	0.38/0.53
MW-6	03/02/2011	---	---	---	---	---	---	---	---	---	---	---	28.60	4.08	24.52	---
MW-6	05/31/2011	33,000	6,200	1,900	1,700	5,800	---	---	---	---	---	---	28.60	6.25	22.35	0.80/2.21
MW-6	12/13/2011	12,000	2,700	556	548	1,880	---	<0.500	<10.0	9.68	<0.500	<0.500	28.60	8.01	20.59	0.81/0.99
MW-6	06/13/2012	30,000	6,200	1,400	1,700	6,300	---	---	---	---	---	---	28.60	7.14	21.46	1.00/1.41
MW-6	11/19/2012	3,000	450	67	76	600	---	<2.5	<50	<2.5	<2.5	<2.5	28.60	8.34	20.26	2.04/2.90
MW-6	05/30/2013	<10,000	350	<100	<100	<200	---	---	---	---	---	---	28.60	7.59	21.01	0.38/2.76
MW-6	11/18/2013	3,500	460	15	150	130	---	<5.0	<100	<5.0	<5.0	<5.0	28.60	9.42	19.18	0.22/0.19
MW-6	06/06/2014	2,000	400	53	97	350	---	---	---	---	---	---	28.60	7.44	21.16	0.61/0.58
MW-6	12/01/2014	520 i	110	5.8	7.2	46	---	<1.0	<20	2.3	<1.0	<1.0	28.60	8.54	20.06	0.62/0.71
MW-6	05/22/2015	1,600	360	39	60	240	---	---	---	---	---	---	28.60	7.63	20.97	2.38/3.10
MW-6	**12/18/2015**	**510**	**110**	**5.5**	**11**	**64**	**---**	**<1.3**	**<25**	**1.9**	**<1.3**	**<1.3**	**28.60**	**9.39**	**19.21**	**1.72/3.35**
MW-7	01/09/2006	---	---	---	---	---	---	---	---	---	---	---	29.71	5.50	24.21	---
MW-7	01/11/2006	79,000	9,800	1,800	1,900	20,000	---	<5.0 a	64 a	28 a	<5.0 a	<5.0 a	29.71	5.70	24.01	1.0
MW-7	05/26/2006	98,200	9,620	1,150	3,490	13,400 e	---	<5.00	885	30.8	<5.00	<5.00	29.71	7.24	22.47	0.30
MW-7	08/30/2006	146,000	8,740	980	3,440	15,400	---	<0.500	<10.0	22.7	<0.500	<0.500	29.71	9.03	20.68	0.51/0.46
MW-7	11/08/2006	61,000	6,600	880	2,800	12,000	---	---	---	---	---	---	29.71	9.49	20.22	0.02/0.13
MW-7	02/22/2007	50,000	3,400	910	2,200	13,000	---	---	---	---	---	---	29.71	7.00	22.71	0.96/2.57
MW-7	05/29/2007	26,000 b, f	2,700	320	850	3,590	---	---	---	---	---	---	29.71	8.01	21.70	0.09/0.15
MW-7	08/27/2007	37,000 f	3,300	240	1,300	4,060	---	<25	<250	20 g	<50	<50	29.71	9.30	20.41	1.23/1.64
MW-7	11/08/2007	26,000 f	3,000	120	1,000	2,810	---	---	---	---	---	---	29.71	9.39	20.32	0.80/1.39
MW-7	02/20/2008	20,000 f	1,400	210	600	4,800	---	---	---	---	---	---	29.71	3.33	26.38	3.72/0.58
MW-7	05/01/2008	16,000	1,700	66	85	1,380	---	---	---	---	---	---	29.71	8.28	21.43	0.2/0.1
MW-7	08/12/2008	27,000	1,700	73	1,100	2,490	---	<20	<200	<40	<40	<40	29.71	9.61	20.10	1.49/1.93
MW-7	11/26/2008	25,000	2,300	61	62	1,400	---	---	---	---	---	---	29.71	9.94	19.77	0.85/1.10
MW-7	02/03/2009	54,000	2,900	170	520	5,800	---	---	---	---	---	---	29.71	8.80	20.91	0.17/0.62
MW-7	06/02/2009	14,000	1,100	43	23	810	---	---	---	---	---	---	29.71	8.16	21.55	0.21/0.18
MW-7	11/10/2009	17,000	900	42	63	1,400	---	<10	<100	<20	<20	<20	29.71	9.56	20.15	0.54/0.33

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-7	05/10/2010	6,900	650	24	24	610	---	---	---	---	---	---	29.71	6.86	22.85	0.37/0.19
MW-7	09/09/2010	---	---	---	---	---	---	---	---	---	---	---	29.71	9.70	20.01	---
MW-7	12/03/2010	8,100	550	16	20	520	---	<5.0	<50	<10	<10	<10	29.71	8.95	20.76	0.41/0.37
MW-7	03/02/2011	---	---	---	---	---	---	---	---	---	---	---	29.71	4.67	25.04	---
MW-7	05/31/2011	6,200	530	16	8.5	320	---	---	---	---	---	---	29.71	7.54	22.17	0.63/0.87
MW-7	12/13/2011	8,800	689	8.85	9.68	200	---	<0.500	<10.0	1.99	<0.500	<0.500	29.71	8.93	20.78	0.38/0.35
MW-7	06/13/2012	2,300	330	<5.0	<5.0	86	---	---	---	---	---	---	29.71	8.26	21.45	1.35/1.08
MW-7	11/19/2012	5,800	860	14	7.8	300	---	<5.0	<100	<5.0	<5.0	<5.0	29.71	9.51	20.20	0.96/1.10
MW-7	05/30/2013	3,200	420	11	<5.0	140	---	---	---	---	---	---	29.71	8.55	21.16	0.35/0.24
MW-7	11/18/2013	3,700	620	5.4	7.8	130	---	<5.0	<100	<5.0	<5.0	<5.0	29.71	10.41	19.30	0.19/0.17
MW-7	06/06/2014	2,000	140	<2.0	<2.0	16	---	---	---	---	---	---	29.71	8.52	21.19	0.41/0.44
MW-7	12/01/2014	2,900	490	7.1	<5.0	140	---	<5.0	<100	<5.0	<5.0	<5.0	29.71	10.12	19.59	0.41/0.78
MW-7	05/22/2015	2,100	210	3.0	<2.5	48	---	---	---	---	---	---	29.71	8.65	21.06	1.09/1.24
MW-7	**12/18/2015**	**2,900**	**520**	**7.1**	**5.8**	**110**	**---**	**<5.0**	**<100**	**<5.0**	**<5.0**	**<5.0**	**29.71**	**10.39**	**19.32**	**1.12/1.03**
MW-8	01/09/2006	---	---	---	---	---	---	---	---	---	---	---	29.54	5.56	23.98	---
MW-8	01/11/2006	32,000	2,400	180	66	5,500	---	<0.50 a	35 a	15 a	<0.50 a	<0.50 a	29.54	5.53	24.01	0.8
MW-8	05/26/2006	24,800	423	73.0	166	2,820 e	---	<0.500	<10.0	2.18	<0.500	<0.500	29.54	7.02	22.52	0.35
MW-8	08/30/2006	72,100	1,770	114	324	3,140	---	<0.500	<10.0	23.3	<0.500	<0.500	29.54	8.81	20.73	0.51/0.50
MW-8	11/08/2006	24,000	2,000	90	190	3,400	---	---	---	---	---	---	29.54	9.25	20.29	0.11/0.40
MW-8	02/22/2007	26,000	2,100	110	180	4,400	---	---	---	---	---	---	29.54	7.08	22.46	1.37/1.71
MW-8	05/29/2007	31,000 f	2,600	99	250	3,140	---	---	---	---	---	---	29.54	7.81	21.73	0.05/0.49
MW-8	08/27/2007	41,000 f	3,400	110	260	3,880	---	<20	<200	32 g	<40	<40	29.54	9.04	20.50	0.07/0.27
MW-8	11/08/2007	42,000 f	4,900	140	440	4,000	---	---	---	---	---	---	29.54	9.14	20.40	3.20/0.10
MW-8	02/20/2008	19,000 f	760	38	52	1,930	---	---	---	---	---	---	29.54	9.00	20.54	1.72/0.13
MW-8	05/01/2008	18,000	1,000	35	42	1,520	---	---	---	---	---	---	29.54	8.10	21.44	1.10/0.19
MW-8	08/12/2008	33,000	1,600	69	1,100	2,730	---	<10	<100	<20	<20	<20	29.54	9.41	20.13	0.15/0.29
MW-8	11/26/2008	27,000	2,600	77	100	2,930	---	---	---	---	---	---	29.54	9.68	19.86	2.60/0.66
MW-8	02/03/2009	32,000	2,400	70	81	2,700	---	---	---	---	---	---	29.54	8.57	20.97	0.10/0.23
MW-8	06/02/2009	22,000	1,100	39	56	1,600	---	---	---	---	---	---	29.54	8.00	21.54	0.22/0.38
MW-8	11/10/2009	22,000	1,600	46	52	1,600	---	<25	<250	<50	<50	<50	29.54	9.32	20.22	0.45/0.29

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-8	05/10/2010	9,800	340	15	21	700	---	---	---	---	---	---	29.54	6.74	22.80	0.28/0.54
MW-8	09/09/2010	---	---	---	---	---	---	---	---	---	---	---	29.54	9.52	20.02	---
MW-8	12/03/2010	13,000	720	26	29	870	---	<5.0	<50	<10	<10	<10	29.54	8.67	20.87	0.90/0.27
MW-8	03/02/2011	---	---	---	---	---	---	---	---	---	---	---	29.54	4.97	24.57	---
MW-8	05/31/2011	10,000	260	7.6	9.6	390	---	---	---	---	---	---	29.54	7.51	22.03	0.78/0.81
MW-8	12/13/2011	14,000	703	15.4	25.2	467	---	<0.500	<10.0	4.95	<0.500	<0.500	29.54	8.73	20.81	0.69/0.32
MW-8	06/13/2012	8,200	290	7.9	14	430	---	---	---	---	---	---	29.54	8.01	21.53	1.48/0.94
MW-8	11/19/2012	7,000	180	7.0	13	510	---	<2.5	<50	<2.5	<2.5	<2.5	29.54	9.28	20.26	0.79/0.70
MW-8	05/30/2013	7,900	190	5.7	8.7	270	---	---	---	---	---	---	29.54	8.37	21.17	0.17/0.07
MW-8	11/18/2013	11,000	240	8.2	11	630	---	<2.0	<40	<2.0	<2.0	<2.0	29.54	10.40	19.14	0.26/0.22
MW-8	06/06/2014	7,000	120	2.5	4.6	170	---	---	---	---	---	---	29.54	8.55	20.99	0.36/0.39
MW-8	12/01/2014	6,600	92	3.2	2.9	180	---	<2.5	<50	<2.5	<2.5	<2.5	29.54	9.69	19.85	0.36/0.42
MW-8	05/22/2015	6,800	80	2.6	4.3	140	---	---	---	---	---	---	29.54	8.59	20.95	0.69/0.50
MW-8	**12/18/2015**	**6,100**	**95**	**4.3**	**5.8**	**220**	**---**	**<1.3**	**<25**	**<1.3**	**<1.3**	**<1.3**	**29.54**	**9.99**	**19.55**	**1.52/1.43**
MW-9	08/27/2010	---	---	---	---	---	---	---	---	---	---	---	28.52	10.33	18.19	---
MW-9	09/09/2010	13,000	32	13	880	610	---	---	---	---	---	---	28.52	10.60	17.92	0.51/0.73
MW-9	12/03/2010	6,400	33	9.5	540	280	---	---	---	---	---	---	28.52	10.42	18.10	0.22/0.33
MW-9	03/02/2011	11,000	74	11	840	170	---	---	---	---	---	---	28.52	6.45	22.07	0.53/0.48
MW-9	05/31/2011	12,000	49	6.7	570	100	---	---	---	---	---	---	28.52	8.80	19.72	0.19/0.27
MW-9	12/13/2011	13,000	35.8	5.60	470	97.2	---	---	---	---	---	---	28.52	10.24	18.28	0.54/0.51
MW-9	06/13/2012	9,700	49	6.1	420	59	---	---	---	---	---	---	28.52	9.27	19.25	0.68/0.72
MW-9	11/19/2012	9,300	26	<5.0	340	68	---	---	---	---	---	---	28.52	10.55	17.97	1.35/0.76
MW-9	05/30/2013	7,200	19	3.4	160	36	---	---	---	---	---	---	28.52	9.32	19.20	0.41/0.59
MW-9	11/18/2013	760	<5.0	<5.0	19	<10	---	---	---	---	---	---	28.52	10.93	17.59	0.37/0.31
MW-9	06/06/2014	7,600	23	<5.0	190	31	---	---	---	---	---	---	28.52	9.60	18.92	0.16/0.20
MW-9	12/01/2014	7,700	17	<5.0	110	17	---	---	---	---	---	---	28.52	10.96	17.56	0.15/0.19
MW-9	05/22/2015	Well inaccessible		---	---	---	---	---	---	---	---	---	28.52	---	---	---
MW-9	**12/18/2015**	**Well inaccessible**		**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**28.52**	**---**	**---**	**---**
MW-10	08/27/2010	---	---	---	---	---	---	---	---	---	---	---	28.70	10.21	18.49	---

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-10	09/09/2010	2,600	1.9	1.3	40	170	---	---	---	---	---	---	28.70	10.70	18.00	1.43/1.67
MW-10	12/03/2010	1,600	2.0	<1.0	25	18	---	---	---	---	---	---	28.70	10.06	18.64	0.17/0.30
MW-10	03/02/2011	1,600	2.6	0.55	41	13	---	---	---	---	---	---	28.70	6.85	21.85	0.41/0.40
MW-10	05/31/2011	2,400	2.0	0.51	60	45	---	---	---	---	---	---	28.70	7.23	21.47	0.22/0.43
MW-10	12/13/2011	2,700	2.43	<0.500	20.2	2.70	---	---	---	---	---	---	28.70	9.50	19.20	0.69/0.62
MW-10	06/13/2012	2,200	2.5	0.53	48	46	---	---	---	---	---	---	28.70	10.41	18.29	0.81/0.92
MW-10	11/19/2012	980	1.6	<0.50	8.8	1.1	---	---	---	---	---	---	28.70	10.12	18.58	1.20/0.66
MW-10	05/30/2013	1,300	2.0	<0.50	34	5.1	---	---	---	---	---	---	28.70	9.02	19.68	1.38/0.44
MW-10	11/18/2013	5,400	9.8	<5.0	150	19	---	---	---	---	---	---	28.70	10.42	18.28	0.50/0.52
MW-10	06/06/2014	1,000	1.7	<0.50	21	2.3	---	---	---	---	---	---	28.70	8.93	19.77	0.18/0.25
MW-10	12/01/2014	890	1.3	<0.50	8.8	<1.0	---	---	---	---	---	---	28.70	11.15	17.55	0.19/0.35
MW-10	05/22/2015	Well inaccessible		---	---	---	---	---	---	---	---	---	28.70	---	---	---
MW-10	**12/18/2015**	**450**	**1.2**	**<0.50**	**4.1**	**1.1**	**---**	**---**	**---**	**---**	**---**	**---**	**28.70**	**14.18**	**14.52**	**1.10/1.35**
MW-11	08/27/2010	---	---	---	---	---	---	---	---	---	---	---	27.46	9.98	17.48	---
MW-11	09/09/2010	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	27.46	10.32	17.14	1.64/1.69
MW-11	12/03/2010	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	27.46	9.84	17.62	0.29/0.47
MW-11	03/02/2011	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	27.46	6.13	21.33	1.08/0.88
MW-11	05/31/2011	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	27.46	8.42	19.04	0.17/0.30
MW-11	12/13/2011	<50	<0.500	<0.500	<0.500	<0.500	---	---	---	---	---	---	27.46	9.93	17.53	0.36/0.52
MW-11	06/13/2012	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	27.46	9.98	17.48	0.54/0.91
MW-11	11/19/2012	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	27.46	10.16	17.30	0.60/0.88
MW-11	05/30/2013	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	27.46	8.74	18.72	0.74/0.59
MW-11	11/18/2013	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	27.46	10.32	17.14	0.90/0.45
MW-11	06/06/2014	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	27.46	9.25	18.21	0.47/0.27
MW-11	12/01/2014	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	27.46	10.63	16.83	0.45/0.30
MW-11	05/22/2015	Well inaccessible		---	---	---	---	---	---	---	---	---	27.46	---	---	---
MW-11	**12/18/2015**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**---**	**---**	**---**	**---**	**---**	**27.46**	**10.93**	**16.53**	**1.58/2.88**
MW-12	05/19/2006	---	---	---	---	---	---	---	---	---	---	---	31.16	8.42	22.74	---
MW-12	05/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<10.0	<0.500	<0.500	<0.500	31.16	8.44	22.72	3.88

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-12	08/30/2006	746	<0.500	<0.500	<0.500	<0.500	---	---	---	---	---	---	31.16	9.54	21.62	1.75/1.81
MW-12	11/08/2006	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	31.16	8.67	22.49	2.26/3.60
MW-12	02/22/2007	<50	<0.50	<1.0	<0.50	<1.0	---	---	---	---	---	---	31.16	7.72	23.44	1.60/2.91
MW-12	05/29/2007	<50 f	0.49 g	<1.0	0.14 g	0.48 g	---	---	---	---	---	---	31.16	9.00	22.16	0.60/0.61
MW-12	08/27/2007	<50 f	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	31.16	9.90	21.26	0.47/0.24
MW-12	11/08/2007	<50 f	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	31.16	9.90	21.26	3.8/3.1
MW-12	02/20/2008	<50 f	5.4	1.7	3.4	12.4	---	---	---	---	---	---	31.16	7.40	23.76	3.43/1.91
MW-12	05/01/2008	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	31.16	9.20	21.96	0.09/0.13
MW-12	08/12/2008	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	31.16	10.40	20.76	3.6/3.2
MW-12	11/26/2008	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	31.16	10.59	20.57	1.80/1.32
MW-12	02/03/2009	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	31.16	9.39	21.77	1.72/1.75
MW-12	06/02/2009	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	31.16	9.20	21.96	0.77/1.41
MW-12	11/10/2009	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	31.16	10.12	21.04	2.70/1.52
MW-12	05/10/2010	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	31.16	8.41	22.75	2.65/1.42
MW-12	09/09/2010	Unable to locate		---	---	---	---	---	---	---	---	---	31.16	---	---	---
MW-12	12/03/2010	<50	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	31.16	9.32	21.84	0.74/1.29
MW-12	03/02/2011	Unable to locate		---	---	---	---	---	---	---	---	---	31.16	---	---	---
MW-12	05/31/2011	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	31.16	8.80	22.36	0.59/0.91
MW-12	12/13/2011	<50	<0.500	<0.500	<0.500	<0.500	---	---	---	---	---	---	31.16	9.64	21.52	0.75/2.07
MW-12	06/13/2012	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	31.16	9.31	21.85	0.61/1.79
MW-12	11/19/2012	Well inaccessible		---	---	---	---	---	---	---	---	---	31.16	---	---	---
MW-12	05/30/2013	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	31.16	9.40	21.76	0.68/0.72
MW-12	11/18/2013	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	31.16	11.83	19.33	0.29/0.66
MW-12	06/06/2014	Well inaccessible		---	---	---	---	---	---	---	---	---	31.16	---	---	---
MW-12	12/01/2014	Well inaccessible		---	---	---	---	---	---	---	---	---	31.16	---	---	---
MW-12	05/22/2015	Well inaccessible		---	---	---	---	---	---	---	---	---	31.16	---	---	---
MW-12	**12/18/2015**	**Well inaccessible**		**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**31.16**	**---**	**---**	**---**
MW-13	04/16/2015	---	---	---	---	---	---	---	---	---	---	---	29.70	9.31	20.39	---
MW-13	05/22/2015	4,100	430	5.9	16	<10	---	---	---	---	---	---	29.70	10.12	19.58	0.86/0.59
MW-13	08/14/2015	5,000	550	<5.0	8.5	<10	---	---	---	---	---	---	29.70	11.55	18.15	0.56/0.32

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-13	**12/18/2015**	**3,800**	**200**	**<2.5**	**3.9**	**<5.0**	**---**	**---**	**---**	**---**	**---**	**---**	**29.70**	**11.41**	**18.29**	**1.62/1.97**
MW-14	05/19/2006	---	---	---	---	---	---	---	---	---	---	---	28.09	6.95	21.14	---
MW-14	05/26/2006	103,000	5,280	76.7	3,930	4,800 e	---	<5.00	895	49.7	<5.00	<5.00	28.09	7.05	21.04	3.60
MW-14	08/30/2006	10,200	1,260	12.5	1,310	1,330	---	<0.500	<10.0	<0.500	<0.500	<0.500	28.09	9.19	18.90	3.33/3.49
MW-14	11/08/2006	29,000	4,400 a	34	2,000	1,600	---	---	---	---	---	---	28.09	9.80	18.29	1.16/1.40
MW-14	02/22/2007	31,000	2,600	42	2,200	1,600	---	---	---	---	---	---	28.09	6.70	21.39	0.59/1.11
MW-14	05/29/2007	35,000 f	1,100	14	1,800	767	---	---	---	---	---	---	28.09	7.89	20.20	0.08/0.08
MW-14	08/27/2007	Well inaccessfble			---	---	---	---	---	---	---	---	---	---	---	---
MW-14	08/29/2007	45,000 f	1,000	11	870	367.8 g	---	<10	<100	20	<20	<20	28.09	9.25	18.84	0.09/0.16
MW-14	11/08/2007	32,000 f	1,600	22	1,500	889	---	---	---	---	---	---	28.09	9.21	18.88	0.04/0.35
MW-14	02/20/2008	23,000 f	1,800	32	1,600	1,021	---	---	---	---	---	---	28.09	6.34	21.75	0.09/0.08
MW-14	05/01/2008	16,000	830	15	870	452	---	---	---	---	---	---	28.09	7.95	20.14	0.12/0.09
MW-14	08/12/2008	34,000	1,400	26	550	1,151	---	<10	<100	<20	<20	<20	28.09	14.10	13.99	0.03/0.38
MW-14	11/26/2008	Well inaccessible			---	---	---	---	---	---	---	---	28.09	---	---	---
MW-14	02/03/2009	39,000	1,800	27	1,700	1,400	---	---	---	---	---	---	28.09	8.66	19.43	0.16/0.19
MW-14	06/02/2009	34,000	1,100	<25	1,200	710	---	---	---	---	---	---	28.09	8.21	19.88	0.16/0.26
MW-14	11/10/2009	39,000	2,300	35	2,100	1,200	---	<25	<250	<50	<50	<50	28.09	9.69	18.40	0.45/1.56
MW-14	05/10/2010	5,900	150	2.1	170	54	---	---	---	---	---	---	28.09	6.64	21.45	0.49/1.38
MW-14	09/09/2010	Well inaccessible			---	---	---	---	---	---	---	---	28.09	---	---	---
MW-14	12/03/2010	84,000	1,800	39	1,900	1,100	---	<5.0	<50	27	<10	<10	28.09	9.10	18.99	0.50/0.67
MW-14	03/02/2011	---	---	---	---	---	---	---	---	---	---	---	28.09	5.60	22.49	---
MW-14	05/31/2011	21,000	460	10	930	460	---	---	---	---	---	---	28.09	8.85	19.24	0.47/0.77
MW-14	12/13/2011	30,000	1,370	23.8	1,590	871	---	<0.500	<10.0	17.8	<0.500	<0.500	28.09	9.35	18.74	0.67/0.65
MW-14	06/13/2012	26,000	1,100	13	1,400	630	---	---	---	---	---	---	28.09	8.34	19.75	0.54/0.75
MW-14	11/19/2012	27,000	1,700	30	2,800	1,200	---	<5.0	<100	23	<5.0	<5.0	28.09	9.78	18.31	2.84/3.10
MW-14	05/30/2013	34,000	1,300	23	2,100	920	---	---	---	---	---	---	28.09	8.78	19.31	0.97/1.02
MW-14	11/18/2013	33,000	1,200	23	2,700	950	---	<10	<200	16	<10	<10	28.09	10.41	17.68	0.21/0.33
MW-14	06/06/2014	68,000	900	<50	2,800	680	---	---	---	---	---	---	28.09	8.77	19.32	0.20/0.27
MW-14	12/01/2014	36,000	1,600	24	2,700	700	---	<20	<400	<20	<20	<20	28.09	9.50	18.59	0.18/0.25
MW-14	05/22/2015	5,200	320	<10	490	120	---	---	---	---	---	---	28.09	9.08	19.01	1.04/0.96

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-14	**12/18/2015**	**18,000**	**1,200**	**<20**	**2,000**	**450**	**---**	**<20**	**<400**	**<20**	**<20**	**<20**	**28.09**	**10.43**	**17.66**	**2.83/3.17**
V-1	08/02/1996	---	---	---	---	---	---	---	---	---	---	---	23.26	---	---	---
V-1	08/05/1996	---	---	---	---	---	---	---	---	---	---	---	23.26	8.58	14.68	---
V-1	10/17/1996	---	---	---	---	---	---	---	---	---	---	---	23.26	10.02	13.24	---
V-1	01/16/1997	9,500	1,200	250	280	880	<50	---	---	---	---	---	23.26	5.55	17.71	---
V-1	04/07/1997	2,200	42	<5.0	130	15	<25	---	---	---	---	---	23.26	7.40	15.86	---
V-1	07/02/1997	2,600	340	5.8	49	12	74	<4.0	---	---	---	---	23.26	8.94	14.32	---
V-1	10/24/1997	57,000	5,200	2,300	3,600	16,000	1,900	<200	---	---	---	---	23.26	9.43	13.83	---
V-1	01/09/1998	23,000	2,400	1,700	1,300	2,300	310	---	---	---	---	---	23.26	6.81	16.45	---
V-1 (D)	01/09/1998	24,000	2,500	1,800	1,400	2,400	450	---	---	---	---	---	23.26	---	---	---
V-1	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.26	4.58	18.68	---
V-1 (D)	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.26	---	---	---
V-1	07/14/1998	160	1.9	<0.50	4.2	<0.50	6.1	---	---	---	---	---	23.26	7.51	15.75	---
V-1	10/01/1998	440	18	<0.50	11	0.80	7.9	---	---	---	---	---	23.26	8.49	14.77	---
V-1	01/18/1999	697	55.7	0.839	28.2	<0.500	9.35	---	---	---	---	---	23.26	8.59	14.67	---
V-1	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	23.26	8.69	14.57	---
V-1	08/23/1999	457	33.4	3.59	16.3	<0.500	13.9	---	---	---	---	---	23.26	8.99	14.27	---
V-1	10/06/1999	714	53.7	0.740	8.69	<0.500	9.83	---	---	---	---	---	23.26	9.55	13.71	---
V-1	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	23.26	7.19	16.07	---
V-1	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	23.26	7.67	15.59	---
V-1	07/19/2000	255	21.7	<0.500	10.2	<0.500	7.33	<1.00 a	---	---	---	---	23.26	7.53	15.73	---
V-1	10/24/2000	200	4.05	0.566	<0.500	<0.500	7.82	---	---	---	---	---	23.26	7.38	15.88	---
V-1	01/04/2001	128	1.77	<0.500	<0.500	<0.500	6.40	<10.0	---	---	---	---	23.26	8.41	14.85	---
V-1	05/03/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	23.26	7.20	16.06	---
V-1	07/09/2001	110	4.4	<0.50	0.88	1.7	---	<5.0	---	---	---	---	23.26	9.22	14.04	---
V-1	10/18/2001	1,500	180	12	43	46	---	<5.0	---	---	---	---	23.26	10.08	13.18	0.8
V-1	01/24/2002	210	7.1	15	4.6	32	---	<5.0	---	---	---	---	23.26	6.44	16.82	3.5
V-1	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	23.26	6.18	17.08	1.0
V-1	07/18/2002	100	1.6	1.2	1.2	6.1	---	<5.0	---	---	---	---	23.26	8.08	15.18	1.7
V-1	10/21/2002	210	1.4	<0.50	1.0	1.3	---	<5.0	---	---	---	---	29.26	8.94	20.32	1.2

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
V-1	01/21/2003	61	5.2	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	29.26	6.62	22.64	0.6
V-1	04/17/2003	<50	<0.50	<0.50	<0.50	1.2	---	<5.0	---	---	---	---	29.26	6.00	23.26	1.3
V-1	07/22/2003	Well inaccessible		---	---	---	---	---	---	---	---	---	29.26	---	---	---
V-1	10/20/2003	540	11	1.6	6.0	8.9	---	<0.50	---	---	---	---	29.26	9.53	19.73	0.1
V-1	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	29.26	6.62	22.64	---
V-1	01/22/2004	---	---	---	---	---	---	---	---	---	---	---	29.26	9.08	20.18	0.1
V-1	04/01/2004	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	29.26	6.24	23.02	0.1
V-1	07/13/2004	120	1.8	<0.50	<0.50	<1.0	---	<0.50	<5.0	<2.0	<2.0	<2.0	29.26	8.78	20.48	0.1
V-1	10/26/2004	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	29.26	8.09	21.17	0.6
V-1	01/13/2005	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	29.26	4.30	24.96	0.1
V-1	04/28/2005	<50	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	29.26	5.27	23.99	3.34
V-1	08/01/2005	54	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	<2.0	<2.0	<2.0	29.26	7.77	21.49	---
V-1	10/05/2005	120 c	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	29.26	8.72	20.54	1.67
V-1	01/11/2006	<50	<0.50	<0.50	<0.50	<0.50	---	<0.50	<5.0	<0.50	<0.50	<0.50	29.24	4.78	24.46	0.3
V-1	05/26/2006	<50.0	<0.500	<0.500	<0.500	1.02 e	---	<0.500	<10.0	<0.500	<0.500	<0.500	29.24	6.61	22.63	1.94
V-1	08/30/2006	5,660	6.81	1.39	27.3	21.0	---	<0.500	<10.0	<0.500	<0.500	<0.500	29.24	8.46	20.78	0.33/0.33
V-1	11/08/2006	1,300	3.7	1.5	5.1	6.9	---	---	---	---	---	---	29.24	8.95	20.29	0.05/0.11
V-1	02/22/2007	<50	<0.50	<1.0	<0.50	<1.0	---	---	---	---	---	---	29.24	6.17	23.07	0.76/0.99
V-1	05/29/2007	650 f	0.64	<1.0	1.2	0.95 g	---	---	---	---	---	---	29.24	7.21	22.03	0.69/0.74
V-1	08/27/2007	510 b, f	0.24	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	29.24	8.78	20.46	0.12/0.57
V-1 d	11/08/2007	2,000 f	19	2.9	23	18.5	---	---	---	---	---	---	29.24	8.41	20.83	0.61/1.54
V-1	02/20/2008	54 f	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	29.24	5.11	24.13	0.13/0.22
V-1	05/01/2008	280	0.57	<1.0	<1.0	<1.0	---	---	---	---	---	---	29.24	7.60	21.64	0.08/0.08
V-1	08/12/2008	390	0.80	<1.0	<1.0	1.1	---	<1.0	<10	<2.0	<2.0	<2.0	29.24	9.00	20.24	0.81/1.51
V-1	11/26/2008	3,300	46	8.3	62	44.2	---	---	---	---	---	---	29.24	9.50	19.74	0.76/1.28
V-1	02/03/2009	450	0.98	<1.0	1.7	<1.0	---	---	---	---	---	---	29.24	8.18	21.06	0.13/0.39
V-1	06/02/2009	230	<0.50	<1.0	1.3	<1.0	---	---	---	---	---	---	29.24	7.45	21.79	0.25/0.31
V-1	11/10/2009	900	3.1	<1.0	6.5	2.0	---	<1.0	<10	<2.0	<2.0	<2.0	29.24	8.91	20.33	0.84/0.56
V-1	05/10/2010	81	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	29.24	5.94	23.30	0.17/0.43
V-1	09/09/2010	---	---	---	---	---	---	---	---	---	---	---	29.24	8.95	20.29	---
V-1	12/03/2010	560	1.1	<1.0	3.2	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	29.24	8.25	20.99	0.47/0.95

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
V-1	03/02/2011	---	---	---	---	---	---	---	---	---	---	---	29.24	4.18	25.06	---
V-1	05/31/2011	160	<0.50	<0.50	0.57	<1.0	---	---	---	---	---	---	29.24	6.82	22.42	0.69/1.26
V-1	12/13/2011	1,300	1.09	<0.500	5.63	0.980	---	<0.500	<10.0	<0.500	<0.500	<0.500	29.24	8.37	20.87	0.94/0.81
V-1	06/13/2012	410	0.63	<0.50	3.9	<1.0	---	---	---	---	---	---	29.24	7.52	21.72	1.65/1.73
V-1	11/19/2012	57	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	29.24	8.35	20.89	1.48/1.37
V-1	05/30/2013	710	1.8	<0.50	9.3	<1.0	---	---	---	---	---	---	29.24	7.93	21.31	0.44/0.85
V-1	11/18/2013	610	1.7	<0.50	1.5	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	29.24	9.33	19.91	0.14/0.13
V-1	06/06/2014	410	1.7	<0.50	5.1	<1.0	---	---	---	---	---	---	29.24	7.85	21.39	0.11/0.65
V-1	12/01/2014	50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	29.24	8.45	20.79	0.10/0.60
V-1	05/22/2015	500	1.1	<0.50	2.3	<1.0	---	---	---	---	---	---	29.24	8.10	21.14	0.15/0.61
V-1	**12/18/2015**	**540**	**2.1**	**<0.50**	**9.2**	**6.9**	**---**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**29.24**	**9.53**	**19.71**	**1.22/3.49**
V-2	08/02/1996	---	---	---	---	---	---	---	---	---	---	---	22.80	---	---	---
V-2	08/05/1996	---	---	---	---	---	---	---	---	---	---	---	22.80	7.94	14.86	---
V-2	10/17/1996	---	---	---	---	---	---	---	---	---	---	---	22.80	9.30	13.50	---
V-2	01/08/1997	69,000	4,800	2,800	2,700	13,000	750	---	---	---	---	---	22.80	5.82	16.98	---
V-2	04/07/1997	90,000	4,400	1,900	3,300	14,000	<500	---	---	---	---	---	22.80	7.10	15.70	---
V-2 (D)	04/07/1997	77,000	4,400	2,000	3,200	14,000	<250	---	---	---	---	---	22.80	---	---	---
V-2	07/02/1997	82,000	5,500	2,700	3,500	16,000	530	<100	---	---	---	---	22.80	8.35	14.45	---
V-2 (D)	07/02/1997	85,000	5,600	2,800	3,600	17,000	520	<100	---	---	---	---	22.80	---	---	---
V-2	10/24/1997	7,300	1,100	97	230	180	91	<12	---	---	---	---	22.80	10.03	12.77	---
V-2 (D)	10/24/1997	12,000	1,700	340	650	630	120	<20	---	---	---	---	22.80	---	---	---
V-2	01/09/1998	40,000	4,100	1,500	2,500	9,000	280	---	---	---	---	---	22.80	6.94	15.86	---
V-2	04/02/1998	62,000	6,800	2,400	3,400	14,000	<250	---	---	---	---	---	22.80	5.35	17.45	---
V-2	07/14/1998	43,000	4,700	1,100	2,500	6,600	<250	---	---	---	---	---	22.80	6.48	16.32	---
V-2 (D)	07/14/1998	48,000	5,100	1,300	2,600	8,100	<250	---	---	---	---	---	22.80	---	---	---
V-2	10/01/1998	53,000	5,200	1,800	3,200	10,000	83	---	---	---	---	---	22.80	8.41	14.39	---
V-2 (D)	10/01/1998	55,000	5,300	1,900	3,300	11,000	65	---	---	---	---	---	22.80	---	---	---
V-2	01/18/1999	47,100	5,800	1,960	3,450	10,200	<100	---	---	---	---	---	22.80	8.29	14.51	---
V-2	04/29/1999	65,000	6,100	2,800	3,200	12,000	540	---	---	---	---	---	22.80	8.19	14.61	---
V-2	08/23/1999	59,600	6,240	2,190	3,900	14,700	390	---	---	---	---	---	22.80	8.44	14.36	---

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
V-2	10/06/1999	63,800	4,820	1,860	2,840	11,100	<1000	---	---	---	---	---	22.80	8.96	13.84	---
V-2	01/27/2000	59,600	10,200	2,840	3,450	12,100	<500	---	---	---	---	---	22.80	7.57	15.23	---
V-2	04/18/2000	45,000	6,050	2,700	3,340	12,200	<250	---	---	---	---	---	22.80	8.14	14.66	---
V-2	07/19/2000	31,800	4,440	1,270	2,390	6,820	<500	---	---	---	---	---	22.80	8.21	14.59	---
V-2	10/24/2000	40,100	4,810	1,730	2,960	8,650	734	<10.0	---	---	---	---	22.80	8.53	14.27	---
V-2	01/04/2001	37,500	4,510	1,390	2,710	6,880	375	---	---	---	---	---	22.80	8.03	14.77	---
V-2	05/03/2001	51,000	4,000	1,900	2,800	8,200	---	<200	---	---	---	---	22.80	6.63	16.17	---
V-2	07/09/2001	9,600	710	190	180	1,400	---	<25	---	---	---	---	22.80	8.75	14.05	---
V-2	10/18/2001	20,000	2,000	540	560	6,000	---	<50	---	---	---	---	22.80	9.60	13.20	0.4
V-2	01/24/2002	36,000	2,900	870	1,700	5,900	---	<100	---	---	---	---	22.80	5.93	16.87	4.0
V-2	04/04/2002	49,000	3,900	1,500	2,900	9,300	---	<200	---	---	---	---	22.80	5.78	17.02	0.9
V-2	07/18/2002	50,000	3,600	1,300	2,800	9,300	---	<200	---	---	---	---	22.80	7.58	15.22	1.3
V-2	10/21/2002	86,000	6,000	1,900	4,200	20,000	---	<250	---	---	---	---	28.80	8.40	20.40	1.3
V-2	01/21/2003	13,000	630	200	300	2,400	---	<25	---	---	---	---	28.80	6.52	22.28	1.2
V-2	04/17/2003	26,000	2,000	570	750	6,000	---	<100	---	---	---	---	28.80	5.93	22.87	1.1
V-2	07/22/2003	6,800	130	34	150	440	---	<2.5	---	---	---	---	28.80	7.96	20.84	1.4
V-2	10/20/2003	14,000	660	160	260	2,400	---	<10	---	---	---	---	28.80	9.21	19.59	0.7
V-2	01/13/2004	20,000	1,400	410	700	4,200	---	<13	---	---	---	---	28.80	6.90	21.90	---
V-2	01/22/2004	---	---	---	---	---	---	---	---	---	---	---	28.80	8.50	20.30	0.1
V-2	04/01/2004	28,000	2,000	520	650	8,700	---	---	---	---	---	---	28.80	6.84	21.96	0.2
V-2	07/13/2004	21,000	1,900	460	1,000	4,300	---	---	---	---	---	---	28.80	8.28	20.52	0.1
V-2	10/26/2004	43,000	2,700	880	2,300	12,000	---	---	---	---	---	---	28.80	8.43	20.37	0.8
V-2	01/13/2005	23,000	1,400	330	1,800	5,800	---	---	---	---	---	---	28.80	6.67	22.13	0.6
V-2	04/28/2005	16,000	970	230	620	3,800	---	---	---	---	---	---	28.80	5.69	23.11	4.55
V-2	08/01/2005	14,000	610	190	450	3,600	---	---	---	---	---	---	28.80	5.25	23.55	---
V-2	10/05/2005	37,000	2,200	680	2,300	8,500	---	---	---	---	---	---	28.80	8.24	20.56	0.75
V-2	01/11/2006	45,000 a	1,900 a	720 a	3,000 a	13,000 a	---	<25 a	<250 a	<25 a	<25 a	<25 a	28.81	6.60	22.21	0.4
V-2	05/26/2006	66,600	1,300	400	2,950	9,700 e	---	<0.500	<10.0	<0.500	<0.500	<0.500	28.81	6.28	22.53	0.28
V-2	08/30/2006	7,290	2,390	750	4,680	17,000	---	---	---	---	---	---	28.81	8.03	20.78	0.37/0.31
V-2	11/08/2006	68,000	1,700	580	3,900	13,000	---	---	---	---	---	---	28.81	8.60	20.21	0.05/0.14
V-2	02/22/2007	57,000	1,300	600	4,000	15,000	---	---	---	---	---	---	28.81	5.88	22.93	1.23/2.50

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
V-2	05/29/2007	48,000 b, f	2,000	650	3,300	10,000	---	---	---	---	---	---	28.81	6.82	21.99	0.07/0.12
V-2	08/27/2007	55,000 f	1,600	520	2,900	8,000	---	---	---	---	---	---	28.81	8.22	20.59	0.22/0.48
V-2 d	11/08/2007	74,000 f	1,300	500	3,000	9,600	---	---	---	---	---	---	28.81	8.82	19.99	0.87/1.46
V-2	02/20/2008	52,000 f	1,200	560	3,200	12,400	---	---	---	---	---	---	28.81	5.13	23.68	0.16/0.05
V-2	05/01/2008	53,000	960	350	3,000	9,600	---	---	---	---	---	---	28.81	7.25	21.56	0.06/0.05
V-2	08/12/2008	55,000	950	230	2,700	6,030	---	---	---	---	---	---	28.81	8.50	20.31	0.53/1.47
V-2	11/26/2008	71,000	1,400	430	3,900	10,400	---	---	---	---	---	---	28.81	9.08	19.73	0.66/1.62
V-2	02/03/2009	81,000	1,100	340	3,700	11,000	---	---	---	---	---	---	28.81	7.78	21.03	0.48/0.15
V-2	06/02/2009	78,000	920	350	3,500	9,200	---	---	---	---	---	---	28.81	6.90	21.91	0.19/0.26
V-2	11/10/2009	66,000	890	310	3,400	7,900	---	---	---	---	---	---	28.81	8.62	20.19	0.44/0.98
V-2	05/10/2010	28,000	490	160	2,200	4,800	---	---	---	---	---	---	28.81	5.63	23.18	0.18/0.28
V-2	09/09/2010	---	---	---	---	---	---	---	---	---	---	---	28.81	8.49	20.32	---
V-2	12/03/2010	31,000	640	210	2,600	4,300	---	---	---	---	---	---	28.81	7.90	20.91	0.86/1.16
V-2	03/02/2011	---	---	---	---	---	---	---	---	---	---	---	28.81	3.95	24.86	---
V-2	05/31/2011	36,000	510	180	3,600	6,700	---	---	---	---	---	---	28.81	6.55	22.26	0.47/0.92
V-2	12/13/2011	51,000	652	129	3,760	5,040	---	---	---	---	---	---	28.81	7.96	20.85	0.60/1.51
V-2	06/13/2012	44,000	540	150	4,300	5,000	---	---	---	---	---	---	28.81	7.08	21.73	0.91/1.36
V-2	11/19/2012	43,000	530	170	4,100	5,700	---	---	---	---	---	---	28.81	8.73	20.08	0.99/0.82
V-2	05/30/2013	35,000	480	130	3,900	4,000	---	---	---	---	---	---	28.81	7.49	21.32	0.44/1.21
V-2	11/18/2013	45,000	460	140	4,500	4,400	---	---	---	---	---	---	28.81	9.33	19.48	0.19/1.33
V-2	06/06/2014	65,000	420	130	5,400	4,800	---	---	---	---	---	---	28.81	7.40	21.41	0.89/1.13
V-2	12/01/2014	42,000	470	140	3,900	3,600	---	---	---	---	---	---	28.81	9.42	19.39	0.62/0.74
V-2	**12/18/2015**	**34,000**	**400**	**99**	**4,700**	**2,100**	**---**	**---**	**---**	**---**	**---**	**---**	**28.81**	**9.35**	**19.46**	**0.82/1.83**

Table 1
Groundwater Data
Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Notes:

TPHg	=	Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to May 3, 2001, analyzed by EPA Method 8015 unless otherwise noted.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to May 3, 2001, analyzed by EPA Method 8020.
MTBE	=	Methyl tertiary-butyl ether analyzed 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
TOC	=	Top of casing elevation, in feet relative to mean sea level
GW	=	Groundwater
DO	=	Dissolved oxygen concentrations in mg/L (Pre-purge/Post-purge)
µg/L	=	Micrograms per liter
ft	=	Feet
MSL	=	Mean sea level
<x	=	Not detected at reporting limit x
---	=	Not analyzed or available
mg/L	=	Milligrams per liter
(D)	=	Duplicate sample
a	=	Sample analyzed outside of EPA recommended holding time.
b	=	Hydrocarbon does not match pattern of laboratory's standard.
c	=	Quantity of unknown hydrocarbon(s) in sample based on gasoline.
d	=	Samples were switched in the field for wells V-1 and V-2 due to field error. Data corrected for this table.
e	=	Analyte was detected in the associated Method Blank.
f	=	Analyzed by EPA Method 8015B (M).
g	=	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
h	=	Concentration reported is due to the presence of discrete peaks of xylenes.
i	=	Concentration reported is due to the presence of discrete peak of benzene.

Site wells surveyed June 14, 2001 by Virgil Chavez Land Surveying
Site wells surveyed August 13, 2002 by Virgil Chavez Land Surveying
Wells MW-1 through MW-8, V-1, and V-2 surveyed on February 14, 2006 by Virgil Chavez Land Surveying
Wells MW-12 and MW-14 surveyed on April 19, 2006 by Virgil Chavez Land Surveying
Wells MW-9, MW-10, and MW-11 surveyed on August 18, 2010 by Virgil Chavez Land Surveying

Appendix A

Field Notes
(Blaine Tech Services, Inc.)

WELL GAUGING DATA

Project # 151218-RH1 Date 12/18/15 Client Aecom

Site 2703 MLK Jr. 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	1017	2	/	/	/	/	9.39	19.83		
mw-2	1020	2	/	/	/	/	10.86	18.63		
mw-3	1022	4	/	/	/	/	9.84	19.76		
mw-4	1100	4	/	/	/	/	9.28	19.99		
mw-5	1040	4	ODOR	/	/	/	10.16	19.89		
mw-6	1045	4	ODOR	/	/	/	9.39	19.35		
mw-7	1035	4	/	/	/	/	10.39	19.47		
mw-8	1030	4	/	/	/	/	9.99	19.39		
mw-9		Unable to open well Due to Frozen Bolt								
mw-10	0913	4					14.18	19.61		
mw-11	0910	4					10.93	19.67		
mw-12		Unable to access well in locked Yard								
mw-13	1035	2	ODOR	/	/	/	11.41	19.80		
mw-14	1045	1	ODOR	/	/	/	10.43	14.14		
V-1	1050	2	/	/	/	/	9.53	13.08		
V-2	1053	2	/	/	/	/	9.35	13.24		

SHELL WELL MONITORING DATA SHEET

BTS #: 151218-RH1	Site: 97093397
Sampler: RH	Date: 12/18/15
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.99	Depth to Water (DTW): 9.28
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]: 11.42	

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: _____

6.9 (Gals.) X	3	= 20.8 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1214	65.4	6.76	1359	243	7.0	Gray / odor
	well	Dewatered @	7 gallons			
1325	66.8	6.83	1327	104	Grab	clear / odor

Did well dewater? (Yes) No Gallons actually evacuated: 7.0

Sampling Date: 12/18/15 Sampling Time: 1325 Depth to Water: 11.07

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:	1.58 mg/L	Post-purge:	2.35 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 151218-RH1	Site: 97093397
Sampler: RH	Date: 12/18/15
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.89	Depth to Water (DTW): 10.16
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 9.73 x 0.20) + DTW]: 12.10	

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: _____

6.3 (Gals.) X 3 = 18.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1202	65.4	6.60	1432	71000	6.5	Grey/odor
	well Dewatered		@ 10	gallons		
1309	65.8	6.60	1450	31	Grab	clear/odor

Did well dewater? (Yes) No Gallons actually evacuated: 10

Sampling Date: 12/18/15 Sampling Time: 1310 Depth to Water: 11.60

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:	0.70 mg/L	Post-purge:	0.55 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 151218-RH1	Site: 97093397
Sampler: RH	Date: 12/18/15
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.35	Depth to Water (DTW): 9.39
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 9.96 x 0.20) + DTW]: 11.38	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer) 3"; Extraction Port; Dedicated Tubing; Other: _____

6.4 (Gals.) X 3 = 19.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1121	64.8	7.50	910	78	6.5	cloudy / odor
1127	65.3	7.40	1099	59	13	↓
		well	Dewatered @ 15	gallons		
1241	64.9	7.35	1107	32	Grab	odor

Did well dewater? (Yes) No Gallons actually evacuated: 15

Sampling Date: 12/18/15 Sampling Time: 1240 Depth to Water: 11.13

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:	1.72 mg/L	Post-purge:	3.35 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 151218-RH1	Site: 97093397
Sampler: RH	Date: 12/18/15
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.47	Depth to Water (DTW): 10.39
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 (9.08) x 0.20) + DTW]: 12.20	

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: ____

5.9 (Gals.) X 3 = 17.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1136	64.5	6.71	1462	624	5.9	
*	well dewatered at 9 gal					
1247	65.0	6.75	1459	127	Grab	yellowish

Did well dewater? (Yes) No Gallons actually evacuated: 9

Sampling Date: 12-18-15 Sampling Time: 1245 Depth to Water: 12.01

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:	1.12 mg/L	Post-purge:	1.03 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 151217-RH1	Site: 97093397
Sampler: RH	Date: 12/18/15
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.39	Depth to Water (DTW): 9.99
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 9.4 Column x 0.20) + DTW]: 11.87	

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: ____

6.1 (Gals.) X 3 = 18.3 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1148	65.0	6.66	939	581	6.25	Gray / odor
	well dewatered @		7.5 gallons			
1302	64.5	6.92	942	39	Grab	clear / odor

Did well dewater? (Yes) No Gallons actually evacuated: 7.5

Sampling Date: 12/18/15 Sampling Time: 1300 Depth to Water: 11.35

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:	1.52 mg/L	Post-purge:	1.43 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 151218-RH1	Site: 97093397
Sampler: RH	Date: 12/18/15
Well I.D.: MW-~~X~~29	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

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

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

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	Unable to open well Due to Stripped					
	Bolt					

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 #: 151218-RH1	Site: 97093397
Sampler: RH	Date: 12/18/15
Well I.D.: MW-10	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.61	Depth to Water (DTW): 14.18
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.26	

5.43

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: ____

3.5 (Gals.) X 3 = 10.75 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
0950	65.2	6.98	1405	39	3.5	ODOR
0953	66.1	6.89	1451	40	7	"
0956	66.8	6.84	1425	68	10.75	"

Did well dewater? Yes (No) Gallons actually evacuated: 10.75

Sampling Date: 12/18/15 Sampling Time: 1000 Depth to Water: 14.51

Sample I.D.: MW-10 Laboratory: Test America Other ____

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

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

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

D.O. (if req'd):	Pre-purge:	1.10 mg/L	Post-purge:	1.35 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 151218-RH1	Site: 2703 MLK (JC) 97093397
Sampler: RH	Date: 12/18/15
Well I.D.: MW-11	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.67	Depth to Water (DTW): 10.93
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 (8.74) x 0.20) + DTW]: 12.67	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer) ~~Disposable Bailer~~ (JC); Extraction Port; Dedicated Tubing; Other:_____

5.75 (Gals.) X 3 = 17.25 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
0927	64.7	7.14	1240	71000	5.75	Cloudy
0930	64.9	7.09	1220	71000	11.50	"
0933	65.2	7.13	1190	71000	17.25	"

Did well dewater? Yes (No) Gallons actually evacuated: 17.25

Sampling Date: 12/18/15 Sampling Time: 0935 Depth to Water: 11.32

Sample I.D.: 12/18/15 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:	7.58 mg/L	Post-purge:	2.88 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 151218-RH1	Site: 97093397
Sampler: RH	Date: 12/18/15
Well I.D.: MW-12	Well Diameter: 2 3 4 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

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

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

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	Unable to sample, No Access into					
	Property					

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 #: 151218-RH1	Site: 97093397
Sampler: RH	Date: 12-18-15
Well I.D.: MW-13	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.80	Depth to Water (DTW): 11.41
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]: 13.08	

Purge Method: (Bailer) Waterra
Disposable Bailer Peristaltic
Positive Air Displacement Extraction Pump
Electric Submersible Other____

Sampling Method: (Bailer)
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: ____

1.3 (Gals.) X 3 = 3.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1040	62.1	6.85	1660	71000	1.5	Gray/odor
1043	62.5	6.79	1654	71000	3.0	1
1046	62.7	6.75	1650	71000	4.0	1

Did well dewater? Yes (No) Gallons actually evacuated: 4.0

Sampling Date: 12-18-15 Sampling Time: 1050 Depth to Water: 11.97

Sample I.D.: MW-13 Laboratory: (Test America) Other____

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

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

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

D.O. (if req'd):	Pre-purge:	1.62 mg/L	Post-purge:	1.97 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 151218-RH1	Site: 97093397
Sampler: RH	Date: 12/18/15
Well I.D.: MW-14	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 14.14	Depth to Water (DTW): 10.43
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]: 11.17	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, (Other) Check valve

Sampling Method: Bailer, Disposable Bailer, Extraction Port, New (Dedicated Tubing), Other: ______

0.15 (Gals.) X 3 = 0.45 Gals.
1 Case Volume, Specified Volumes, Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1018	61.2	7.06	1431	>1000	0.25	Gray/odor
1020	61.7	6.99	1419	>1000	0.35	|
1021	61.9	6.95	1431	>1000	0.50	|

Did well dewater? Yes (No)	Gallons actually evacuated: 0.5
Sampling Date: 12/18/15 Sampling Time: 1025	Depth to Water:
Sample I.D.: MW-14	Laboratory: (Test America) Other ______
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) See COC	
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:	
D.O. (if req'd): Pre-purge: 2.83 mg/L	Post-purge: 3.17 mg/L
O.R.P. (if req'd): Pre-purge: mV	Post-purge: mV

SHELL WELL MONITORING DATA SHEET

BTS #: 151218-RH1	Site: 97093397
Sampler: JC	Date: 12/18/15
Well I.D.: V-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 13.08	Depth to Water (DTW): 9.53
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.55 10.24

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: ________

~~2.3~~ .6 (Gals.) X 3 = ~~.7~~ 1.86 Gals.
1 Case Volume, Specified Volumes, Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1120	66.4	6.81	1327	917	~~2.3~~ .6	cloudy
1123	66.8	6.72	1307	>1000	1.5	|
1125	66.1	6.74	1295	>1000	2.0	|
	waited	for	80 %	Recharge		

Did well dewater? Yes (No) Gallons actually evacuated: 2.0

Sampling Date: ~~—~~ 12/18/15 Sampling Time: 1130 Depth to Water: 10.17

Sample I.D.: V-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:	1.22 ~~0.72~~ mg/L	Post-purge:	3.49 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 151218-SH1	Site: 97093397
Sampler: JC	Date: 12/18/15
Well I.D.: V-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 13.24	Depth to Water (DTW): 9.35
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 3.89 x 0.20) + DTW]: 10.12

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:_____

.6 (Gals.) X 3 = 1.86 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1151	64.4	6.81	1052	>1000	.6	ODOR
1154	64.8	6.75	1074	830	1.2	"
1157	65.1	6.73	1035	776	1.8	

Did well dewater? Yes (No) Gallons actually evacuated: 1.8

Sampling Date: 12/18/15 Sampling Time: 1200 Depth to Water: 9.74

Sample I.D.: V-2 Laboratory: Test America Other_____

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

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

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

D.O. (if req'd):	Pre-purge:	.82 mg/L	Post-purge:	1.83 mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 97093397

ADDRESS 2703 Mlk Jr. Blvd.

DATE: 12/18/15

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) 6	Y	N	G	R	G	R	NL	G	P		Y	N	
mw-2	Standpipe	Flush	G	P	Size (inch) 8	Y	N	G	R	G	R	NL	G	P		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	1/2 tabs stripped 1/2 Bolts missing	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	1/2 Bolts stripped	Y	N	
mw-10	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
mw-11	Standpipe	Flush	G	P	Size (inch) 12	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	X	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
0	Y	N	N/A	Y	N	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).

Rodolfo Huerta / BTS

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 97093397

ADDRESS 2703 MLK Jr. Blvd

DATE: 12/18/15

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-12	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
mw-13	Standpipe	(Flush)	(G)	P	Size (inch) 6	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	N	
mw-14	Standpipe	(Flush)	(G)	P	Size (inch) 6	(Y)	N	(G)	R	(G)	R	NL	(G)	P	2/2 tabs stripped	Y	N	
v-1	Standpipe	(Flush)	~~G~~	(P)	Size (inch) 6	(Y)	N	(G)	R	(G)	R	NL	(G)	P	2/2 Bolts missing	Y	N	
v-2	Standpipe	(Flush)	~~G~~	(P)	Size (inch) 6	(Y)	N	(G)	R	(G)	R	NL	(G)	P	2/2 Bolts missing	Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	

TOTAL # CAPS REPLACED = 0 | 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	X	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
0	Y	N	(N/A)	Y	N	(N/A)	G	P	(N/A)	Y	(N)	Y	N	(N/A)		Y	(N)	

G = Good (Acceptable) R = Replaced
P = Poor (needs attention) NL = No Lock Required
Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

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

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

Rodolfo Huerta / BTS
Print or type Name of Field Personnel & Consultant Company

Version 2.4, March 2008

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NOT REQUIRED	1	800-424-9300	07004408

5. Generator's Name and Mailing Address

Shell Oil Products US C/O Waste Coordinator - NORCAL,OR
6520 Corporate Drive, Indianapolis, IN. 46278

Generator's Site Address (if different than mailing address)

2703 MLK Jr. Blvd. Oakland, CA

Generator's Phone: 317-291-7041

6. Transporter 1 Company Name

Blaine Tech Services, Inc

U.S. EPA ID Number: CAR000148338

7. Transporter 2 Company Name

American Integrated Services, Inc

U.S. EPA ID Number: CAR000148338

8. Designated Facility Name and Site Address

Crosby & Overton, Inc.
1630 W. 17th Street
Long Beach, CA. 90813 562-432-5445

U.S. EPA ID Number: CAD028409019

Facility's Phone:

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1. **Non-Hazardous Waste Liquid (Groundwater)**	1	TT	80	G	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (800) 424-9300 Chemtrec.

PlaNet#:
Incident#: 9709 3397
Profile#: 27578
Project #: 75007-4-1,CRA Project#:

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Toris Tsubota — Signature: [signature] — Month: 12 Day: 18 Year: 15

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rodolfo Huerta — Signature: [signature] — Month: 12 Day: 17 Year: 15

Transporter 2 Printed/Typed Name: — Signature: — Month: Day: Year:

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: — Signature: — Month: Day: Year:

Appendix B

Analytical Report
(TestAmerica Laboratories, Inc.)

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: 440-132030-1
Client Project/Site: 2703 Martin Luther King Jr. Way, Oakland

For:
AECOM Technical Services Inc.
1333 Broadway
Suite 800
Oakland, California 94612

Attn: Casey Huff

Authorized for release by:
1/4/2016 1:11:11 PM

Laura Turpen, Project Manager I
(916)374-4414
laura.turpen@testamericainc.com

Table of Contents

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: 2703 Martin Luther King Jr. Way, Oakland

TestAmerica Job ID: 440-132030-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-132030-1	MW-4	Water	12/18/15 13:25	12/23/15 10:45
440-132030-2	MW-5	Water	12/18/15 13:10	12/23/15 10:45
440-132030-3	MW-6	Water	12/18/15 12:40	12/23/15 10:45
440-132030-4	MW-7	Water	12/18/15 12:45	12/23/15 10:45
440-132030-5	MW-8	Water	12/18/15 13:00	12/23/15 10:45
440-132030-6	MW-10	Water	12/18/15 10:00	12/23/15 10:45
440-132030-7	MW-11	Water	12/18/15 09:35	12/23/15 10:45
440-132030-8	MW-13	Water	12/18/15 10:50	12/23/15 10:45
440-132030-9	MW-14	Water	12/18/15 10:25	12/23/15 10:45
440-132030-10	V-1	Water	12/18/15 11:30	12/23/15 10:45
440-132030-11	V-2	Water	12/18/15 12:00	12/23/15 10:45

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: 2703 Martin Luther King Jr. Way, Oakland

TestAmerica Job ID: 440-132030-1

Job ID: 440-132030-1

Laboratory: TestAmerica Irvine

Narrative

Receipt
The samples were received on 12/23/2015 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described 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-4 — Lab Sample ID: 440-132030-1

Date Collected: 12/18/15 13:25 — **Matrix: Water**
Date Received: 12/23/15 10:45

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)	**7500**		1000		ug/L			12/30/15 14:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*12/30/15 14:12*	*20*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/30/15 14:12*	*20*
Toluene-d8 (Surr)	*115*		*80 - 128*		*12/30/15 14:12*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1300**		10		ug/L			12/30/15 14:12	20
Isopropyl Ether (DIPE)	ND		10		ug/L			12/30/15 14:12	20
Ethyl-t-butyl ether (ETBE)	ND		10		ug/L			12/30/15 14:12	20
Ethylbenzene	**75**		10		ug/L			12/30/15 14:12	20
Methyl-t-Butyl Ether (MTBE)	ND		10		ug/L			12/30/15 14:12	20
Tert-amyl-methyl ether (TAME)	ND		10		ug/L			12/30/15 14:12	20
tert-Butyl alcohol (TBA)	ND		200		ug/L			12/30/15 14:12	20
Toluene	**72**		10		ug/L			12/30/15 14:12	20
Xylenes, Total	**290**		20		ug/L			12/30/15 14:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/30/15 14:12*	*20*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*12/30/15 14:12*	*20*
Toluene-d8 (Surr)	*115*		*80 - 128*		*12/30/15 14:12*	*20*

Client Sample ID: MW-5 — Lab Sample ID: 440-132030-2

Date Collected: 12/18/15 13:10 — **Matrix: Water**
Date Received: 12/23/15 10:45

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)	**93000**		10000		ug/L			12/30/15 11:46	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*12/30/15 11:46*	*200*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*12/30/15 11:46*	*200*
Toluene-d8 (Surr)	*115*		*80 - 128*		*12/30/15 11:46*	*200*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6200**		100		ug/L			12/30/15 11:46	200
Isopropyl Ether (DIPE)	ND		100		ug/L			12/30/15 11:46	200
Ethyl-t-butyl ether (ETBE)	ND		100		ug/L			12/30/15 11:46	200
Ethylbenzene	**6000**		100		ug/L			12/30/15 11:46	200
Methyl-t-Butyl Ether (MTBE)	ND		100		ug/L			12/30/15 11:46	200
Tert-amyl-methyl ether (TAME)	ND		100		ug/L			12/30/15 11:46	200
tert-Butyl alcohol (TBA)	ND		2000		ug/L			12/30/15 11:46	200
Toluene	**4100**		100		ug/L			12/30/15 11:46	200
Xylenes, Total	**26000**		200		ug/L			12/30/15 11:46	200

Client Sample ID: MW-5
Lab Sample ID: 440-132030-2
Date Collected: 12/18/15 13:10
Matrix: Water
Date Received: 12/23/15 10:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		12/30/15 11:46	200
Dibromofluoromethane (Surr)	112		76 - 132		12/30/15 11:46	200
Toluene-d8 (Surr)	115		80 - 128		12/30/15 11:46	200

Client Sample ID: MW-6
Lab Sample ID: 440-132030-3
Date Collected: 12/18/15 12:40
Matrix: Water
Date Received: 12/23/15 10:45

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)	510		130		ug/L			12/30/15 12:15	2.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		76 - 132		12/30/15 12:15	2.5
4-Bromofluorobenzene (Surr)	106		80 - 120		12/30/15 12:15	2.5
Toluene-d8 (Surr)	116		80 - 128		12/30/15 12:15	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	110		1.3		ug/L			12/30/15 12:15	2.5
Isopropyl Ether (DIPE)	1.9		1.3		ug/L			12/30/15 12:15	2.5
Ethyl-t-butyl ether (ETBE)	ND		1.3		ug/L			12/30/15 12:15	2.5
Ethylbenzene	11		1.3		ug/L			12/30/15 12:15	2.5
Methyl-t-Butyl Ether (MTBE)	ND		1.3		ug/L			12/30/15 12:15	2.5
Tert-amyl-methyl ether (TAME)	ND		1.3		ug/L			12/30/15 12:15	2.5
tert-Butyl alcohol (TBA)	ND		25		ug/L			12/30/15 12:15	2.5
Toluene	5.5		1.3		ug/L			12/30/15 12:15	2.5
Xylenes, Total	64		2.5		ug/L			12/30/15 12:15	2.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		12/30/15 12:15	2.5
Dibromofluoromethane (Surr)	110		76 - 132		12/30/15 12:15	2.5
Toluene-d8 (Surr)	116		80 - 128		12/30/15 12:15	2.5

Client Sample ID: MW-7
Lab Sample ID: 440-132030-4
Date Collected: 12/18/15 12:45
Matrix: Water
Date Received: 12/23/15 10:45

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)	2900		500		ug/L			12/31/15 22:10	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		76 - 132		12/31/15 22:10	10
4-Bromofluorobenzene (Surr)	105		80 - 120		12/31/15 22:10	10
Toluene-d8 (Surr)	107		80 - 128		12/31/15 22:10	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	520		5.0		ug/L			12/31/15 22:10	10

Client Sample ID: MW-7 — Lab Sample ID: 440-132030-4

Date Collected: 12/18/15 12:45 — **Matrix: Water**
Date Received: 12/23/15 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl Ether (DIPE)	ND		5.0		ug/L			12/31/15 22:10	10
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			12/31/15 22:10	10
Ethylbenzene	**5.8**		5.0		ug/L			12/31/15 22:10	10
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/L			12/31/15 22:10	10
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			12/31/15 22:10	10
tert-Butyl alcohol (TBA)	ND		100		ug/L			12/31/15 22:10	10
Toluene	**7.1**		5.0		ug/L			12/31/15 22:10	10
Xylenes, Total	**110**		10		ug/L			12/31/15 22:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*12/31/15 22:10*	*10*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*12/31/15 22:10*	*10*
Toluene-d8 (Surr)	*107*		*80 - 128*		*12/31/15 22:10*	*10*

Client Sample ID: MW-8 — Lab Sample ID: 440-132030-5

Date Collected: 12/18/15 13:00 — **Matrix: Water**
Date Received: 12/23/15 10:45

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)	**6100**		130		ug/L			12/30/15 13:14	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*12/30/15 13:14*	*2.5*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/30/15 13:14*	*2.5*
Toluene-d8 (Surr)	*116*		*80 - 128*		*12/30/15 13:14*	*2.5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**95**		1.3		ug/L			12/30/15 13:14	2.5
Isopropyl Ether (DIPE)	ND		1.3		ug/L			12/30/15 13:14	2.5
Ethyl-t-butyl ether (ETBE)	ND		1.3		ug/L			12/30/15 13:14	2.5
Ethylbenzene	**5.8**		1.3		ug/L			12/30/15 13:14	2.5
Methyl-t-Butyl Ether (MTBE)	ND		1.3		ug/L			12/30/15 13:14	2.5
Tert-amyl-methyl ether (TAME)	ND		1.3		ug/L			12/30/15 13:14	2.5
tert-Butyl alcohol (TBA)	ND		25		ug/L			12/30/15 13:14	2.5
Toluene	**4.3**		1.3		ug/L			12/30/15 13:14	2.5
Xylenes, Total	**220**		2.5		ug/L			12/30/15 13:14	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/30/15 13:14*	*2.5*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*12/30/15 13:14*	*2.5*
Toluene-d8 (Surr)	*116*		*80 - 128*		*12/30/15 13:14*	*2.5*

Client Sample ID: MW-10 — Lab Sample ID: 440-132030-6

Date Collected: 12/18/15 10:00 — **Matrix: Water**
Date Received: 12/23/15 10:45

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)	**450**		50		ug/L			12/30/15 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*12/30/15 13:43*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/30/15 13:43*	*1*
Toluene-d8 (Surr)	*117*		*80 - 128*		*12/30/15 13:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		0.50		ug/L			12/30/15 13:43	1
Ethylbenzene	**4.1**		0.50		ug/L			12/30/15 13:43	1
m,p-Xylene	**1.1**		1.0		ug/L			12/30/15 13:43	1
o-Xylene	ND		0.50		ug/L			12/30/15 13:43	1
Toluene	ND		0.50		ug/L			12/30/15 13:43	1
Xylenes, Total	**1.1**		1.0		ug/L			12/30/15 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/30/15 13:43*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*12/30/15 13:43*	*1*
Toluene-d8 (Surr)	*117*		*80 - 128*		*12/30/15 13:43*	*1*

Client Sample ID: MW-11 — Lab Sample ID: 440-132030-7

Date Collected: 12/18/15 09:35 — **Matrix: Water**
Date Received: 12/23/15 10:45

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			12/30/15 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*12/30/15 14:41*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/30/15 14:41*	*1*
Toluene-d8 (Surr)	*117*		*80 - 128*		*12/30/15 14:41*	*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			12/30/15 14:41	1
Ethylbenzene	ND		0.50		ug/L			12/30/15 14:41	1
m,p-Xylene	ND		1.0		ug/L			12/30/15 14:41	1
o-Xylene	ND		0.50		ug/L			12/30/15 14:41	1
Toluene	ND		0.50		ug/L			12/30/15 14:41	1
Xylenes, Total	ND		1.0		ug/L			12/30/15 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/30/15 14:41*	*1*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*12/30/15 14:41*	*1*
Toluene-d8 (Surr)	*117*		*80 - 128*		*12/30/15 14:41*	*1*

Client Sample ID: MW-13 — Lab Sample ID: 440-132030-8

Date Collected: 12/18/15 10:50 — **Matrix: Water**
Date Received: 12/23/15 10:45

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)	**3800**		250		ug/L			12/30/15 15:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*12/30/15 15:10*	*5*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*12/30/15 15:10*	*5*
Toluene-d8 (Surr)	*114*		*80 - 128*		*12/30/15 15:10*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**200**		2.5		ug/L			12/30/15 15:10	5
Ethylbenzene	**3.9**		2.5		ug/L			12/30/15 15:10	5
m,p-Xylene	ND		5.0		ug/L			12/30/15 15:10	5
o-Xylene	ND		2.5		ug/L			12/30/15 15:10	5
Toluene	ND		2.5		ug/L			12/30/15 15:10	5
Xylenes, Total	ND		5.0		ug/L			12/30/15 15:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*12/30/15 15:10*	*5*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*12/30/15 15:10*	*5*
Toluene-d8 (Surr)	*114*		*80 - 128*		*12/30/15 15:10*	*5*

Client Sample ID: MW-14 — Lab Sample ID: 440-132030-9

Date Collected: 12/18/15 10:25 — **Matrix: Water**
Date Received: 12/23/15 10:45

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)	**18000**		2000		ug/L			12/30/15 15:39	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*12/30/15 15:39*	*40*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/30/15 15:39*	*40*
Toluene-d8 (Surr)	*116*		*80 - 128*		*12/30/15 15:39*	*40*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1200**		20		ug/L			12/30/15 15:39	40
Isopropyl Ether (DIPE)	ND		20		ug/L			12/30/15 15:39	40
Ethyl-t-butyl ether (ETBE)	ND		20		ug/L			12/30/15 15:39	40
Ethylbenzene	**2000**		20		ug/L			12/30/15 15:39	40
Methyl-t-Butyl Ether (MTBE)	ND		20		ug/L			12/30/15 15:39	40
Tert-amyl-methyl ether (TAME)	ND		20		ug/L			12/30/15 15:39	40
tert-Butyl alcohol (TBA)	ND		400		ug/L			12/30/15 15:39	40
Toluene	ND		20		ug/L			12/30/15 15:39	40
Xylenes, Total	**450**		40		ug/L			12/30/15 15:39	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/30/15 15:39*	*40*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*12/30/15 15:39*	*40*
Toluene-d8 (Surr)	*116*		*80 - 128*		*12/30/15 15:39*	*40*

Client Sample ID: V-1 — Lab Sample ID: 440-132030-10

Date Collected: 12/18/15 11:30 — **Matrix: Water**
Date Received: 12/23/15 10:45

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)	**540**		50		ug/L			12/30/15 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*12/30/15 16:08*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*12/30/15 16:08*	*1*
Toluene-d8 (Surr)	*114*		*80 - 128*		*12/30/15 16:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.1**		0.50		ug/L			12/30/15 16:08	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			12/30/15 16:08	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			12/30/15 16:08	1
Ethylbenzene	**9.2**		0.50		ug/L			12/30/15 16:08	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			12/30/15 16:08	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			12/30/15 16:08	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			12/30/15 16:08	1
Toluene	ND		0.50		ug/L			12/30/15 16:08	1
Xylenes, Total	**6.9**		1.0		ug/L			12/30/15 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*12/30/15 16:08*	*1*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*12/30/15 16:08*	*1*
Toluene-d8 (Surr)	*114*		*80 - 128*		*12/30/15 16:08*	*1*

Client Sample ID: V-2 — Lab Sample ID: 440-132030-11

Date Collected: 12/18/15 12:00 — **Matrix: Water**
Date Received: 12/23/15 10:45

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)	**34000**		5000		ug/L			12/30/15 16:37	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*12/30/15 16:37*	*100*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/30/15 16:37*	*100*
Toluene-d8 (Surr)	*115*		*80 - 128*		*12/30/15 16:37*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**400**		50		ug/L			12/30/15 16:37	100
Ethylbenzene	**4700**		50		ug/L			12/30/15 16:37	100
m,p-Xylene	**2000**		100		ug/L			12/30/15 16:37	100
o-Xylene	**99**		50		ug/L			12/30/15 16:37	100
Toluene	**99**		50		ug/L			12/30/15 16:37	100
Xylenes, Total	**2100**		100		ug/L			12/30/15 16:37	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/30/15 16:37*	*100*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*12/30/15 16:37*	*100*

Client: AECOM Technical Services Inc.
Project/Site: 2703 Martin Luther King Jr. Way, Oakland

TestAmerica Job ID: 440-132030-1

Client Sample ID: V-2
Date Collected: 12/18/15 12:00
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-11
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	115		80 - 128		12/30/15 16:37	100

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: 2703 Martin Luther King Jr. Way, Oakland

TestAmerica Job ID: 440-132030-1

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: AECOM Technical Services Inc.
Project/Site: 2703 Martin Luther King Jr. Way, Oakland

TestAmerica Job ID: 440-132030-1

Client Sample ID: MW-4
Date Collected: 12/18/15 13:25
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-1
Matrix: 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		50	10 mL	10 mL	303002	12/30/15 10:19	HR	TAL IRV
Total/NA	Analysis	8260B		20	10 mL	10 mL	303002	12/30/15 14:12	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		50	10 mL	10 mL	303003	12/30/15 10:19	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		20	10 mL	10 mL	303003	12/30/15 14:12	HR	TAL IRV

Client Sample ID: MW-5
Date Collected: 12/18/15 13:10
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-2
Matrix: 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		200	10 mL	10 mL	303002	12/30/15 11:46	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		200	10 mL	10 mL	303003	12/30/15 11:46	HR	TAL IRV

Client Sample ID: MW-6
Date Collected: 12/18/15 12:40
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-3
Matrix: 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		2.5	10 mL	10 mL	303002	12/30/15 12:15	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		2.5	10 mL	10 mL	303003	12/30/15 12:15	HR	TAL IRV

Client Sample ID: MW-7
Date Collected: 12/18/15 12:45
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-4
Matrix: 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		10	10 mL	10 mL	303464	12/31/15 22:10	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		10	10 mL	10 mL	303465	12/31/15 22:10	WC	TAL IRV

Client Sample ID: MW-8
Date Collected: 12/18/15 13:00
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-5
Matrix: 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		2.5	10 mL	10 mL	303002	12/30/15 13:14	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		2.5	10 mL	10 mL	303003	12/30/15 13:14	HR	TAL IRV

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: 2703 Martin Luther King Jr. Way, Oakland

TestAmerica Job ID: 440-132030-1

Client Sample ID: MW-10
Date Collected: 12/18/15 10:00
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-6
Matrix: 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	303002	12/30/15 13:43	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	303003	12/30/15 13:43	HR	TAL IRV

Client Sample ID: MW-11
Date Collected: 12/18/15 09:35
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-7
Matrix: 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	303002	12/30/15 14:41	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	303003	12/30/15 14:41	HR	TAL IRV

Client Sample ID: MW-13
Date Collected: 12/18/15 10:50
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-8
Matrix: 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	303002	12/30/15 15:10	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		5	10 mL	10 mL	303003	12/30/15 15:10	HR	TAL IRV

Client Sample ID: MW-14
Date Collected: 12/18/15 10:25
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-9
Matrix: 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		40	10 mL	10 mL	303002	12/30/15 15:39	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		40	10 mL	10 mL	303003	12/30/15 15:39	HR	TAL IRV

Client Sample ID: V-1
Date Collected: 12/18/15 11:30
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-10
Matrix: 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	303002	12/30/15 16:08	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	303003	12/30/15 16:08	HR	TAL IRV

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: 2703 Martin Luther King Jr. Way, Oakland

TestAmerica Job ID: 440-132030-1

Client Sample ID: V-2
Date Collected: 12/18/15 12:00
Date Received: 12/23/15 10:45

Lab Sample ID: 440-132030-11
Matrix: 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		100	10 mL	10 mL	303002	12/30/15 16:37	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	10 mL	10 mL	303003	12/30/15 16:37	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 440-303002/5
Matrix: Water
Analysis Batch: 303002

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			12/30/15 08:51	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			12/30/15 08:51	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			12/30/15 08:51	1
Ethylbenzene	ND		0.50		ug/L			12/30/15 08:51	1
m,p-Xylene	ND		1.0		ug/L			12/30/15 08:51	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			12/30/15 08:51	1
o-Xylene	ND		0.50		ug/L			12/30/15 08:51	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			12/30/15 08:51	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			12/30/15 08:51	1
Toluene	ND		0.50		ug/L			12/30/15 08:51	1
Xylenes, Total	ND		1.0		ug/L			12/30/15 08:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/30/15 08:51*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*12/30/15 08:51*	*1*
Toluene-d8 (Surr)	*116*		*80 - 128*		*12/30/15 08:51*	*1*

Lab Sample ID: LCS 440-303002/6
Matrix: Water
Analysis Batch: 303002

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	24.9		ug/L		99	68 - 130
Isopropyl Ether (DIPE)	25.0	29.4		ug/L		118	58 - 139
Ethyl-t-butyl ether (ETBE)	25.0	29.4		ug/L		118	60 - 136
Ethylbenzene	25.0	25.1		ug/L		101	70 - 130
m,p-Xylene	25.0	24.6		ug/L		98	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	27.0		ug/L		108	63 - 131
o-Xylene	25.0	23.7		ug/L		95	70 - 130
Tert-amyl-methyl ether (TAME)	25.0	27.8		ug/L		111	57 - 139
tert-Butyl alcohol (TBA)	250	272		ug/L		109	70 - 130
Toluene	25.0	24.6		ug/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
Toluene-d8 (Surr)	*112*		*80 - 128*

Lab Sample ID: 440-132030-1 MS
Matrix: Water
Analysis Batch: 303002

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	1300		1250	2460		ug/L		92	66 - 130
Isopropyl Ether (DIPE)	ND		1250	1490		ug/L		119	64 - 138
Ethyl-t-butyl ether (ETBE)	ND		1250	1480		ug/L		118	70 - 130
Ethylbenzene	73		1250	1290		ug/L		97	70 - 130

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

Lab Sample ID: 440-132030-1 MS
Matrix: Water
Analysis Batch: 303002

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	210		1250	1380		ug/L		93	70 - 133
Methyl-t-Butyl Ether (MTBE)	ND		1250	1380		ug/L		111	70 - 130
o-Xylene	69		1250	1210		ug/L		91	70 - 133
Tert-amyl-methyl ether (TAME)	ND		1250	1400		ug/L		112	68 - 133
tert-Butyl alcohol (TBA)	ND		12500	13200		ug/L		106	70 - 130
Toluene	74		1250	1240		ug/L		93	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*114*		*76 - 132*
Toluene-d8 (Surr)	*108*		*80 - 128*

Lab Sample ID: 440-132030-1 MSD
Matrix: Water
Analysis Batch: 303002

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	1300		1250	2410		ug/L		87	66 - 130	2	20
Isopropyl Ether (DIPE)	ND		1250	1450		ug/L		116	64 - 138	2	25
Ethyl-t-butyl ether (ETBE)	ND		1250	1440		ug/L		115	70 - 130	3	25
Ethylbenzene	73		1250	1300		ug/L		98	70 - 130	1	20
m,p-Xylene	210		1250	1390		ug/L		94	70 - 133	1	25
Methyl-t-Butyl Ether (MTBE)	ND		1250	1340		ug/L		107	70 - 130	3	25
o-Xylene	69		1250	1220		ug/L		92	70 - 133	1	20
Tert-amyl-methyl ether (TAME)	ND		1250	1360		ug/L		109	68 - 133	3	30
tert-Butyl alcohol (TBA)	ND		12500	13200		ug/L		105	70 - 130	0	25
Toluene	74		1250	1250		ug/L		94	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
Toluene-d8 (Surr)	*109*		*80 - 128*

Lab Sample ID: MB 440-303464/4
Matrix: Water
Analysis Batch: 303464

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			12/31/15 20:36	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			12/31/15 20:36	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			12/31/15 20:36	1
Ethylbenzene	ND		0.50		ug/L			12/31/15 20:36	1
m,p-Xylene	ND		1.0		ug/L			12/31/15 20:36	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			12/31/15 20:36	1
o-Xylene	ND		0.50		ug/L			12/31/15 20:36	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			12/31/15 20:36	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			12/31/15 20:36	1
Toluene	ND		0.50		ug/L			12/31/15 20:36	1

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

Lab Sample ID: MB 440-303464/4
Matrix: Water
Analysis Batch: 303464

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		1.0		ug/L			12/31/15 20:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*12/31/15 20:36*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*12/31/15 20:36*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*12/31/15 20:36*	*1*

Lab Sample ID: LCS 440-303464/5
Matrix: Water
Analysis Batch: 303464

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	23.8		ug/L		95	68 - 130
Isopropyl Ether (DIPE)	25.0	27.9		ug/L		111	58 - 139
Ethyl-t-butyl ether (ETBE)	25.0	28.0		ug/L		112	60 - 136
Ethylbenzene	25.0	23.4		ug/L		94	70 - 130
m,p-Xylene	25.0	24.3		ug/L		97	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	24.6		ug/L		98	63 - 131
o-Xylene	25.0	24.3		ug/L		97	70 - 130
Tert-amyl-methyl ether (TAME)	25.0	27.9		ug/L		112	57 - 139
tert-Butyl alcohol (TBA)	250	252		ug/L		101	70 - 130
Toluene	25.0	22.9		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*

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

Lab Sample ID: MB 440-303003/5
Matrix: Water
Analysis Batch: 303003

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			12/30/15 08:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*12/30/15 08:51*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/30/15 08:51*	*1*
Toluene-d8 (Surr)	*116*		*80 - 128*		*12/30/15 08:51*	*1*

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

Lab Sample ID: LCS 440-303003/7
Matrix: Water
Analysis Batch: 303003

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	425		ug/L		85	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*114*		*76 - 132*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Toluene-d8 (Surr)	*114*		*80 - 128*

Lab Sample ID: 440-132030-1 MS
Matrix: Water
Analysis Batch: 303003

Client Sample ID: MW-4
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)	7400		86300	98000		ug/L		105	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*114*		*76 - 132*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*108*		*80 - 128*

Lab Sample ID: 440-132030-1 MSD
Matrix: Water
Analysis Batch: 303003

Client Sample ID: MW-4
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)	7400		86300	93300		ug/L		100	50 - 145	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 128*

Lab Sample ID: MB 440-303465/4
Matrix: Water
Analysis Batch: 303465

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			12/31/15 20:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*12/31/15 20:36*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*12/31/15 20:36*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*12/31/15 20:36*	*1*

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

Lab Sample ID: LCS 440-303465/6
Matrix: Water
Analysis Batch: 303465

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	413		ug/L		83	55 - 130		

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

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: 2703 Martin Luther King Jr. Way, Oakland

TestAmerica Job ID: 440-132030-1

GC/MS VOA

Analysis Batch: 303002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132030-1	MW-4	Total/NA	Water	8260B	
440-132030-1	MW-4	Total/NA	Water	8260B	
440-132030-1 MS	MW-4	Total/NA	Water	8260B	
440-132030-1 MSD	MW-4	Total/NA	Water	8260B	
440-132030-2	MW-5	Total/NA	Water	8260B	
440-132030-3	MW-6	Total/NA	Water	8260B	
440-132030-5	MW-8	Total/NA	Water	8260B	
440-132030-6	MW-10	Total/NA	Water	8260B	
440-132030-7	MW-11	Total/NA	Water	8260B	
440-132030-8	MW-13	Total/NA	Water	8260B	
440-132030-9	MW-14	Total/NA	Water	8260B	
440-132030-10	V-1	Total/NA	Water	8260B	
440-132030-11	V-2	Total/NA	Water	8260B	
LCS 440-303002/6	Lab Control Sample	Total/NA	Water	8260B	
MB 440-303002/5	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 303003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132030-1	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-1	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-1 MS	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-1 MSD	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-2	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-3	MW-6	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-5	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-6	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-7	MW-11	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-8	MW-13	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-9	MW-14	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-10	V-1	Total/NA	Water	8260B/CA_LUFT MS	
440-132030-11	V-2	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-303003/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-303003/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 303464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132030-4	MW-7	Total/NA	Water	8260B	
LCS 440-303464/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-303464/4	Method Blank	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 303465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132030-4	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-303465/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-303465/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

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: AECOM Technical Services Inc. TestAmerica Job ID: 440-132030-1
Project/Site: 2703 Martin Luther King Jr. Way, Oakland

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	10-13-16
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
Kansas	NELAP Secondary AB	7	E-10420	07-31-16
Nevada	State Program	9	CA015312007A	07-31-16 *
New Mexico	State Program	6	N/A	01-29-16
Northern Mariana Islands	State Program	9	MP0002	01-29-16
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	07-08-18

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16 *

* Certification renewal pending - certification considered valid.

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: Christine Pilachowski

INCIDENT # (ENV SERVICES): 9 7 0 9 3 3 9 7 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 12/18/15

PAGE: 1 of 2

PO # | SAP #

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: 2703 Martin Luther King Jr. Way, Oakland
State: CA
GLOBAL ID NO.: T0600101876
EDF DELIVERABLE TO (Name, Company, Office Location): Casey Huff, AECOM, Oakland, CA
PHONE NO.: 510-893-3600
E-MAIL: casey.huff@aecom.com
CONSULTANT PROJECT NO.: 151218-RH1
SAMPLER NAME(S) (Print): RODOLFO HUERTA, JACOB CUMMINGS
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:

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

Email invoice to USAPimaging@aecom.com

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)
	WG	151218 RH1	12/18/15	RH	MW-4	1325	WG	X					3	X		X			X						
	WG			RH	MW-5	1310	WG	X					3	X		X			X						
	WG			RH	MW-6	1240	WG	X					3	X		X			X						
	WG			RH	MW-7	1245	WG	X					3	X		X			X						
	WG			RH	MW-8	1300	WG	X					3	X		X			X						
	WG			RH	MW-10	1000	WG	X					3	X		X			X						
	WG			RH	MW-11	0935	WG	X					3	X		X			X						
	WG			RH	MW-13	1050	WG	X					3	X		X			X						
	WG			RH	MW-14	1025	WG	X					3	X		X			X						
	WG			JC	J-1	1130	WG	X					3	X		X			X						

TEMPERATURE ON RECEIPT.

Container PID Readings or Laboratory Notes

440-132030 Chain of Custody

Relinquished by: (Signature)		Received by: (Signature)		Date:	Time:
Rodolfo	12/18/15 1330			12-18-15	1330
	12/18/15 1440	(sample custodian)		12-18-15	1440
(Sample Custodian)	12-22-15 1300		12/23/15 10:45 2.0°C	12/22/15	1010

4.9/5.8°

TRK-6618 8700 6000 #77

Page 25 of 27

1/4/2016

Shell Oil Products Chain Of Custody Record

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

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

Print Bill To Contact Name: Christine Pilachowski

INCIDENT # (ENV SERVICES): 9 7 0 9 3 3 9 7 ☐ CHECK IF NO INCIDENT # APPLIES

PO #: SAP #:

DATE: 12/18/15 PAGE: 2 of 2

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: 2703 Martin Luther King Jr. Way, Oakland State: CA GLOBAL ID NO.: T0600101876
EDF DELIVERABLE TO (Name, Company, Office Location): Casey Huff, AECOM, Oakland, CA PHONE NO.: 510-893-3600 E-MAIL: casey.huff@aecom.com CONSULTANT PROJECT NO.: 151218-RH1
SAMPLER NAME(S) (Print): RODOLFO HUERTA, JACOB CUMMINGS
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:
- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

Email invoice to USAPimaging@aecom.com

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

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT

LAB USE ONLY		PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	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	151218RH1	12/18/15	JC	V-2	1200	WG	X					3	X		X										

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Rodolfo 12/18/15 1330	[signature]	12-18-15	1330
[signature] 12-18-15 1440	[signature] (sample custodian)	12-18-15	1440
[signature] (Sample Custodian)	[signature]	12/22/15	1010
[signature] 12-22-15 1300	[signature]	12/23/15	10:45

2.0°C

4.9°/5.8
#77

TRK-6618 8700 6000

Page 26 of 27

1/4/2016

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 440-132030-1

Login Number: 132030
List Number: 1
Creator: Skinner, Alma

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	