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Ms. Anne Jurek
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: 4411 Foothill Boulevard, Oakland, California
PlaNet Site ID 10059562
PlaNet Project ID 31733
ACEH Case No. RO0000415**

Dear Ms. Jurek:

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 to the best of my knowledge, 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
Principle Program Manager

August 30, 2016

Anne Jurek
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: First Semiannual 2016 Groundwater Monitoring Report
Former Shell Service Station
4411 Foothill Boulevard, Oakland, California
Shell PlaNet Site ID: 10059562
Shell PlaNet Project ID: 31733
Agency No. RO0000415

Dear Ms. Jurek:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, AECOM Technical Services, Inc. is pleased to submit this first semiannual groundwater monitoring report performed during the second quarter of 2016 at the at the Former Shell Service Station at 4411 Foothill Boulevard 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,



Sara Heikkila
Project Manager



Christine Pilachowski, P.G.
Senior Geologist



Enclosures: Groundwater Monitoring Report

cc: Andrea Wing, Shell Oil Products US
Laura Wong, Phua Management (property owner representative, electronic copy)

First Semiannual 2016 Groundwater Monitoring Report

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

August 2016

First Semiannual 2016 Groundwater Monitoring Report

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

PlaNNet Site ID 10059562
PlaNNet Project ID 31733
Agency No. RO0000415

Submitted to:

Anne Jurek
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Submitted by:

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

On Behalf of

Shell Oil Products US

August 30, 2016

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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:	<u>Former Shell Service Station</u>
Site Address:	<u>4411 Foothill Boulevard, Oakland, California</u>
Shell Environmental Services Program Manager:	<u>Andrea Wing</u>
Consulting Company / Contact Person:	<u>AECOM / Sara Heikkila</u>
Primary Agencies:	<u>Alameda County Environmental Health</u>

1.2 Site Summary

Frequency of Groundwater Monitoring:	<u>Semiannually</u>
Wells Water Level Gauged:	<u>9</u>
Wells Sampled:	<u>2</u>
Is there any Free Product Present in On-Site Monitoring Wells:	<u>No</u>
Current Remediation Activity:	<u>None</u>

2 Site Activities

2.1 Current Activities

On June 3, 2016, Blaine Tech Services, Inc. (Blaine Tech) of San Jose, California gauged and sampled the wells according to the established monitoring program for this site. TestAmerica Laboratories, Inc. (TestAmerica) of Pleasanton, 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:	<u>28.16 to 29.75 in feet above mean sea level</u>
Groundwater Gradient (direction):	<u>Southwest</u>
Groundwater Gradient (magnitude):	<u>0.009 feet per foot</u>

2.3 Proposed Activities

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

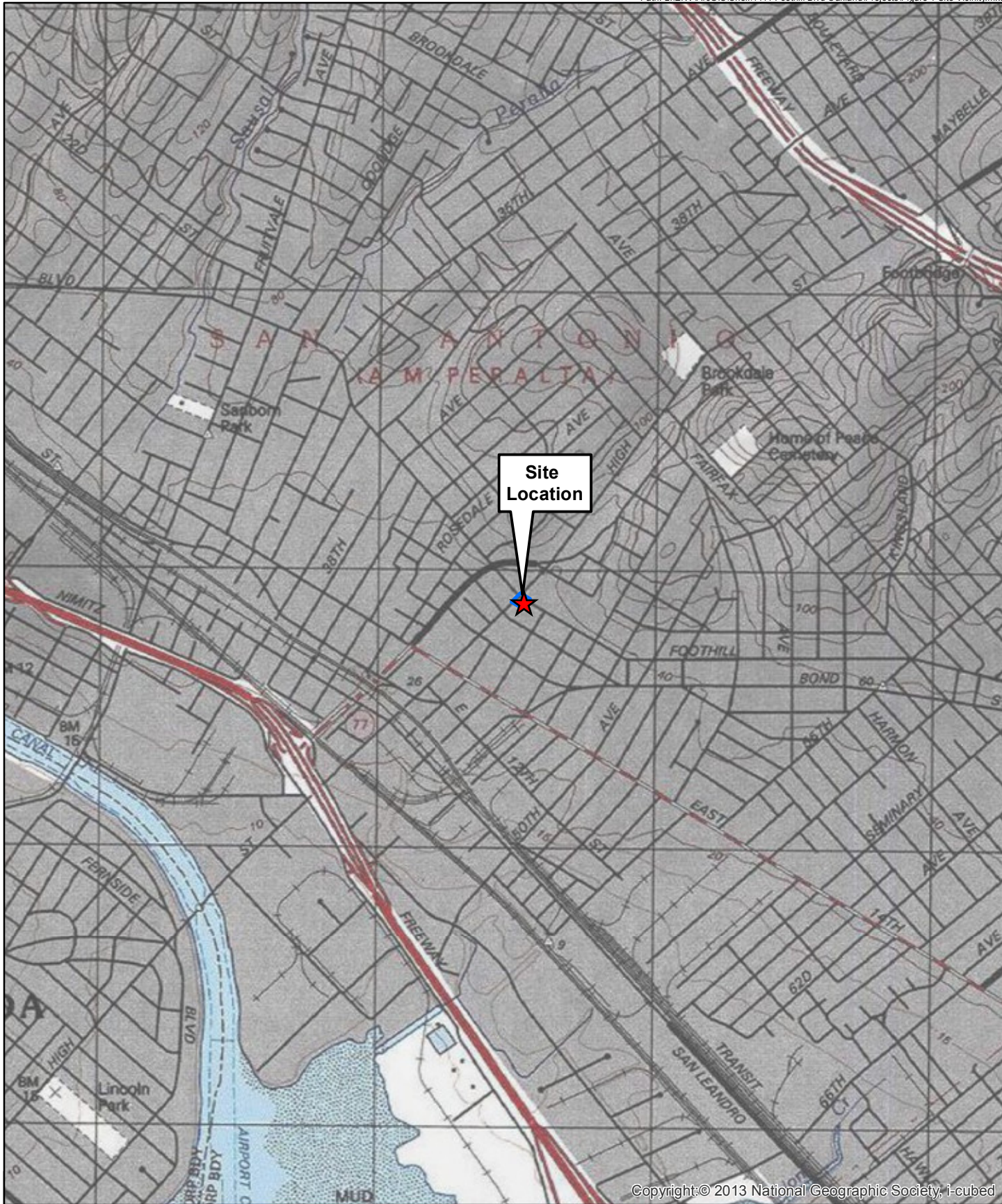
3 Conclusions and Recommendations

Two wells (S-13 and S-14) were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, total xylenes, methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), and tertiary-amyl methyl ether (TAME). The following petroleum constituents were detected:

- TPH-g was detected in both wells at concentrations of 670 micrograms per liter ($\mu\text{g/L}$) (S-14) and 21,000 $\mu\text{g/L}$ (S-13).
- Benzene was detected in both wells at concentrations of 19 $\mu\text{g/L}$ (S-14) and 200 $\mu\text{g/L}$ (S-13).
- Toluene was detected in both wells at concentrations of 1.4 $\mu\text{g/L}$ (S-14) and 370 $\mu\text{g/L}$ (S-13).
- Ethylbenzene was detected in both wells at concentrations of 6.3 $\mu\text{g/L}$ (S-14) and 1,300 $\mu\text{g/L}$ (S-13).
- Total xylenes were detected in both wells at concentrations of 25 $\mu\text{g/L}$ (S-14) and 3,300 $\mu\text{g/L}$ (S-13).
- TBA was detected in only S-14 at a concentration of 10 $\mu\text{g/L}$.
- MTBE, DIPE, ETBE, and TAME were not detected above the laboratory reporting limit in any groundwater samples.

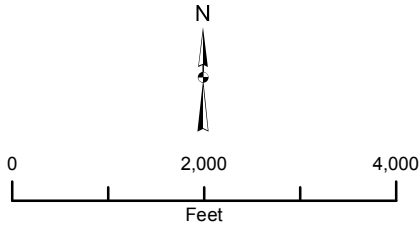
AECOM recommends continuing with the established groundwater monitoring program for this site.

Figures



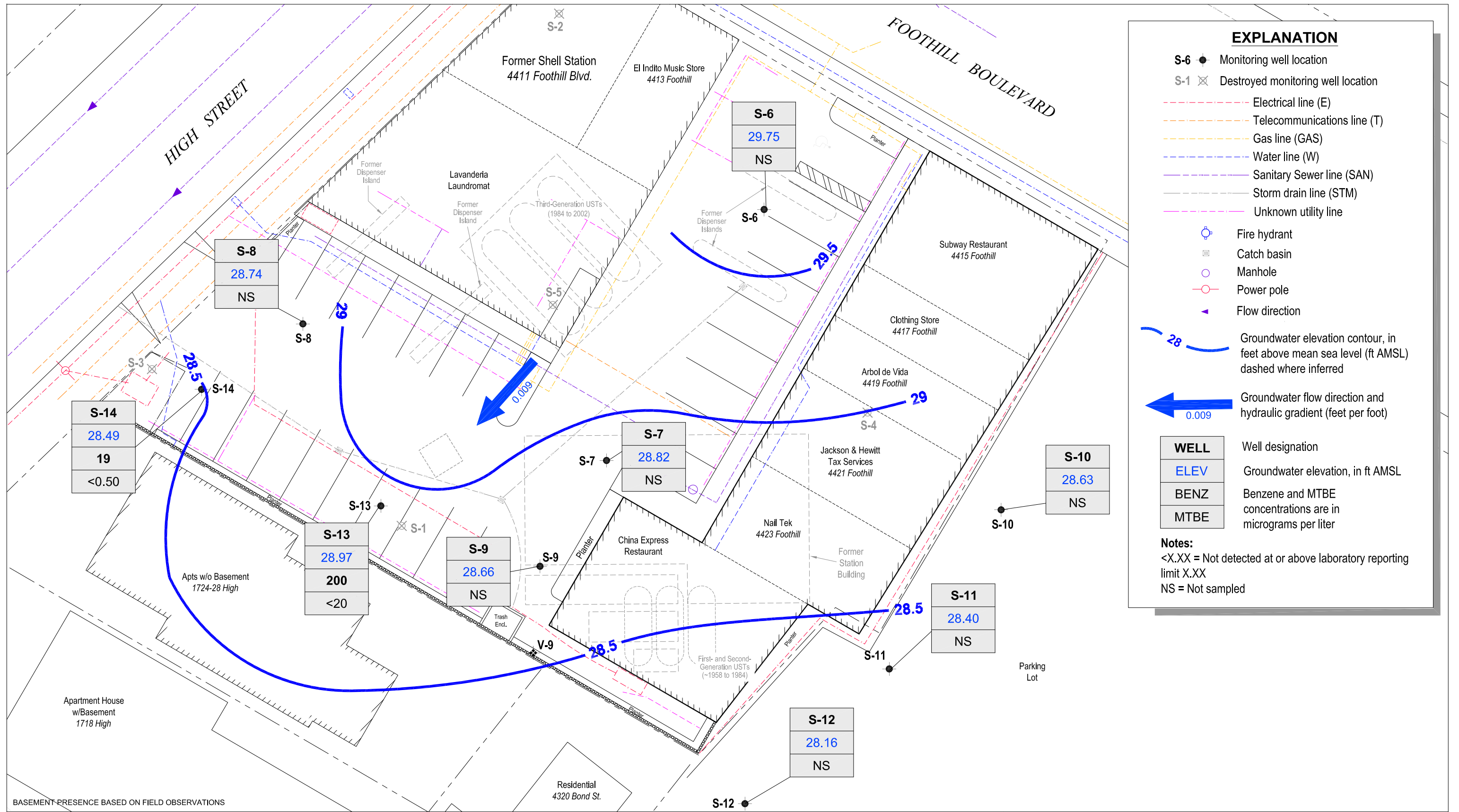
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Figure 1
Site Vicinity Map

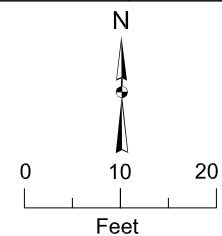


AECOM

Former Shell Service Station
4411 Foothill Boulevard, Oakland, California



BASEMENT PRESENCE BASED ON FIELD OBSERVATIONS



SOURCE: GHD BASEMAP

Figure 2
 Groundwater Contour and Chemical Concentration Map
 June 3, 2016
Former Shell Service Station
 4411 Foothill Boulevard, Oakland, California



Tables

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-1	12/18/1992	---	41,000	3,100	1,100	1,200	8,700	---	---	---	---	---	---	---	---	38.31	9.06	---	---
S-1	05/26/1993	6,000	39,000	1,300	4,700	1,500	7,800	---	---	---	---	---	---	---	---	38.31	---	---	---
S-1	05/28/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.31	12.13	26.18	---
S-1	06/03/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.31	8.89	29.42	---
S-1	06/08/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.31	8.80	29.51	---
S-1	09/21/1993	5,900	34,000	480	5,000	3,800	18,000	---	---	---	---	---	---	---	---	38.31	10.40	27.91	---
S-1	12/14/1993	13,000	25,000	1,100	5,000	2,200	11,000	---	---	---	---	---	---	---	---	38.31	9.66	28.65	---
S-1	03/17/1994	1,600	57,000	1,300	5,400	2,100	11,000	---	---	---	---	---	---	---	---	38.31	8.20	30.11	---
S-1	06/16/1994	3,000	57,000	1,600	6,000	2,000	13,000	---	---	---	---	---	---	---	---	38.31	9.41	28.90	---
S-1	09/22/1994	<250	39,000	1,300	2,100	1,500	7,100	---	---	---	---	---	---	---	---	38.31	11.13	27.18	---
S-1	12/15/1994	3,100 g	30,000	1,100	4,700	1,600	10,000	---	---	---	---	---	---	---	---	38.31	7.15	31.16	---
S-1	03/30/1995	3,100 a,g	30,000 a	1,400 a	4,000 a	1,500 a	11,000 a	---	---	---	---	---	---	---	---	38.31	6.09	32.22	---
S-1	06/20/1995	2,100	28,000	1,100	2,300	1,100	8,300	---	---	---	---	---	---	---	---	38.31	7.30	31.01	---
S-1	09/20/1995	2,600	40,000	840	3,600	1,300	8,600	---	---	---	---	---	---	---	---	38.31	10.02	28.29	---
S-1	12/06/1995	6,400 g	38,000	920	3,200	1,500	9,400	---	---	---	---	---	---	---	---	38.31	11.64	26.67	---
S-1	03/21/1996	---	48,000	700	4,200	1,100	8,600	---	---	---	---	---	---	---	---	38.31	6.87	31.44	---
S-1	09/06/1996	4,100	41,000	830	2,600	2,100	12,000	<250	---	---	---	---	---	---	---	38.31	10.50	27.81	---
S-1	12/19/1996	2,500	40,000	540	3,100	1,900	9,800	920	---	---	---	---	---	---	---	38.31	8.24	30.07	---
S-1	03/17/1997	4,700	42,000	610	2,700	1,700	11,000	3,500	---	---	---	---	---	---	---	38.31	7.26	31.05	---
S-1	06/11/1997	4,000	28,000	540	960	1,300	5,300	220	---	---	---	---	---	---	---	38.31	10.69	27.62	---
S-1 (D)	06/11/1997	3,900	30,000	580	1,000	1,400	5,400	<125	---	---	---	---	---	---	---	38.31	10.69	27.62	---
S-1	09/17/1997	4,400	27,000	310	1,200	1,900	9,000	170	---	---	---	---	---	---	---	38.31	10.26	28.05	---
S-1 (D)	09/17/1997	4,400	27,000	270	1,200	1,900	9,000	170	---	---	---	---	---	---	---	38.31	10.26	28.05	---
S-1	12/11/1997	3,400	21,000	350	820	1,500	6,500	<125	---	---	---	---	---	---	---	38.31	6.96	31.35	---
S-1	03/16/1998	2,500	25,000	250	820	670	5,000	<125	---	---	---	---	---	---	---	38.31	6.00	32.31	---
S-1 (D)	03/16/1998	---	26,000	250	840	720	5,100	<125	---	---	---	---	---	---	---	38.31	6.00	32.31	5.3/3.7
S-1	06/23/1998	230	<1,000	280	14	23	15	6,100	7,800	---	---	---	---	---	---	38.31	6.31	32.00	3.8/2.4
S-1	09/01/1998	2,300	26,000	370	620	1,300	33	1,400	120	---	---	---	---	---	---	38.31	9.17	29.14	1.4/2.6
S-1	12/30/1998	1,970	29,900	174	732	1,680	5,740	182	---	---	---	---	---	---	---	38.31	8.99	29.32	1.6/2.0
S-1	03/30/1999	1,150	14,200	1,360	260	1,070	3,580	<500	90.0	---	---	---	---	---	---	38.31	6.10	32.21	1.2/1.8
S-1	03/31/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.31	7.84	30.47	---
S-1	06/14/1999	4,280	20,200	135	407	825	5,000	705	---	---	---	---	---	---	---	38.31	7.94	30.37	1.4/2.1
S-1	09/30/1999	3,120	18,300	189	531	1,250	4,740	322	---	---	---	---	---	---	---	38.31	10.04	28.27	4.3/2.0

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-1	12/22/1999	444 g	2,450	50.2	97.5	139	458	133	---	---	---	---	---	---	---	38.31	9.42	28.89	1.8/2.3
S-1	03/09/2000	1,200 g	1,230 a	21.2 a	115 a	116 a	411 a	45.1 a	---	---	---	---	---	---	---	38.30	6.21	32.09	2.0/2.9
S-1	06/20/2000	352 g	755	26.0	48.4	43.1	230	71.5	---	---	---	---	---	---	---	38.30	9.18	29.12	2.0/2.4
S-1	09/05/2000	783 g	2,980	43.5	117	168	871	192	---	---	---	---	---	---	---	38.30	10.14	28.16	0.6/0.3
S-1	12/04/2000	238 g	399	5.34	14.6	36.2	106	24.9	---	---	---	---	---	---	---	38.30	10.10	28.20	8.6/9.8
S-1	12/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.30	9.22	29.08	---
S-1	03/08/2001	1,390 g	2,940	49.6	52.9	21.8	749	87.6	---	---	---	---	---	---	---	38.30	5.84	32.46	2.7 b
S-1	06/07/2001	1,400	10,000	120	370	680	2,400	150	---	---	---	---	---	---	---	38.30	8.80	29.50	6.2/2.2
S-1	09/13/2001	<200	240	1.8	8.9	16	53	---	17	---	---	---	---	---	---	38.30	10.25	28.05	7.8/8.9
S-1	11/19/2001	<300	1,400	14	42	110	260	---	27	---	---	---	---	---	---	38.30	9.87	28.43	7.7/7.3
S-1	03/18/2002	<300	7,500	40	370	560	2,000	---	20	---	---	---	---	---	---	38.30	5.08	33.22	5.6/6.1
S-1	06/19/2002	180	1,000	4.7	36	68	250	---	14	---	---	---	---	---	---	38.30	9.26	29.04	---
S-1	09/11/2002	<350	2,100	8.1	68	180	820	---	7.1	---	---	---	---	---	---	38.30	10.54	27.76	6.5
S-1	12/11/2002	<500	4,100	16	93	310	900	---	<20	---	---	---	---	---	---	38.04	9.97	28.07	8.0
S-1	03/11/2003	<1,600	14,000	71	470	1,000	3,300	---	<50	---	---	---	---	---	---	38.04	7.31	30.73	5.2
S-1	06/10/2003	110 g	1,700	7.7	44	190	340	---	4.5	---	---	---	---	---	---	38.04	8.14	29.90	14.0
S-1	09/09/2003	96 g	3,200	11	110	350	1,100	---	5.8	---	---	---	---	---	---	38.04	9.31	28.73	7.5
S-1	12/09/2003	1,000 g	6,000	20	170	530	1,700	---	6.1	---	---	---	---	---	---	38.04	7.24	30.80	28.6
S-1	03/09/2004	300 g	390	5.8	30	67	160	---	5.6	---	---	---	---	---	---	38.04	5.56	32.48	6.4
S-1	06/08/2004	2,500 g	5,600	11	140	660	1,900	---	5.0	---	---	---	---	---	---	38.04	8.82	29.22	30.0
S-1	09/07/2004	130 e	<50	<0.50	<0.50	<0.50	<1.0	---	0.75	<5.0	<2.0	<2.0	<2.0	---	---	38.04	9.84	28.20	14.4
S-1	12/06/2004	Unable to sample		---	---	---	---	---	---	---	---	---	---	---	---	38.04	9.20	28.84	---
S-1	12/15/2004	120 e	560	2.2	26	67	220	---	1.4	---	---	---	---	---	---	38.04	5.39	32.65	31.7
S-1	03/07/2005	460 e	12,000	12	310	830	2,600	---	<5.0	---	---	---	---	---	---	38.04	5.77	32.27	16.1
S-1	06/10/2005	1,200 e	13,000	25	310	1,200	3,300	---	<10	---	---	---	---	---	---	38.04	5.39	32.65	0.17
S-1	07/14/2005	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	05/28/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.79	9.51	29.28	---
S-2	06/03/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.79	9.51	29.28	---
S-2	06/08/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.79	9.57	29.22	---
S-2	06/29/1993	---	1,300	290	35	38	130	---	---	---	---	---	---	---	---	38.79	---	---	---
S-2	09/21/1993	---	3,300	870	24	190	120	---	---	---	---	---	---	---	---	38.79	10.54	28.25	---
S-2	12/14/1993	---	1,300	400	16	36	27	---	---	---	---	---	---	---	---	38.79	9.76	29.03	---

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-2	03/17/1994	---	4,500	610	27	92	110	---	---	---	---	---	---	---	---	38.79	9.92	28.87	---
S-2 (D)	03/17/1994	---	4,000	610	26	93	120	---	---	---	---	---	---	---	---	38.79	9.92	28.87	---
S-2	06/16/1994	---	2,800	690	45	97	140	---	---	---	---	---	---	---	---	38.79	10.11	28.68	---
S-2	09/22/1994	---	4,000	630	94	64	230	---	---	---	---	---	---	---	---	38.79	10.51	28.28	---
S-2	12/15/1994	---	1,600	450	300	67	130	---	---	---	---	---	---	---	---	38.79	9.12	29.67	---
S-2	03/30/1995	---	8,200 a	2,800 a	190 a	240 a	700 a	---	---	---	---	---	---	---	---	38.79	7.86	30.93	---
S-2	06/20/1995	---	9,600	2,600	160	170	500	---	---	---	---	---	---	---	---	38.79	9.51	29.28	---
S-2	09/20/1995	---	4,200	920	45	98	140	---	---	---	---	---	---	---	---	38.79	10.06	28.73	---
S-2	12/06/1995	---	<5,000	790	67	64	130	---	---	---	---	---	---	---	---	38.79	10.52	28.27	---
S-2	03/21/1996	---	3,700	850	45	96	170	---	---	---	---	---	---	---	---	38.79	8.60	30.19	---
S-2	09/06/1996	---	2,400	500	33	39	84	490	---	---	---	---	---	---	---	38.79	10.50	28.29	---
S-2	12/19/1996	---	1,200	330	15	24	31	430	---	---	---	---	---	---	---	38.79	9.40	29.39	---
S-2	03/17/1997	---	4,100	780	42	110	120	2,200	---	---	---	---	---	---	---	38.79	9.82	28.97	---
S-2	06/11/1997	---	760	120	<5.0	7.0	7.6	900	---	---	---	---	---	---	---	38.79	10.18	28.61	---
S-2	09/17/1997	---	1,500	230	8.6	40	27	480	---	---	---	---	---	---	---	38.79	9.90	28.89	---
S-2	12/11/1997	---	1,300	240	15	33	57	280	---	---	---	---	---	---	---	38.79	8.27	30.52	---
S-2	03/16/1998	---	1,100	830	48	<10	<10	4,700	4,800	---	---	---	---	---	---	38.79	7.97	30.82	7.0/4.3
S-2	06/23/1998	---	720	46	6.8	50	68	50	8.8	---	---	---	---	---	---	38.79	8.20	30.59	4.2/3.8
S-2 (D)	06/23/1998	---	810	49	7.1	50	70	49	8.8	---	---	---	---	---	---	38.79	8.20	30.59	4.2/3.8
S-2	09/01/1998	---	<2,000	170	<20	<20	<20	9,300	12,000	---	---	---	---	---	---	38.79	9.85	28.94	1.9/1.6
S-2	12/30/1998	---	<5,000	369	<50	<50	<50	14,300	---	---	---	---	---	---	---	38.79	9.84	28.95	2.0/1.8
S-2	03/30/1999	---	<2,000	234	<20.0	27.4	36.9	49,200	53,000	---	---	---	---	---	---	38.79	8.41	30.38	2.1/1.8
S-2	03/31/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.79	8.67	30.12	---
S-2	06/14/1999	---	<1,000	175	<10.0	<10.0	11.1	67,500	---	---	---	---	---	---	---	38.79	9.80	28.99	---
S-2	09/30/1999	177 g	678	135	8.22	14.9	25.8	17,100	17,000 a	---	---	---	---	---	---	38.79	10.58	28.21	5.1/4.8
S-2	12/22/1999	142 g	316	55.8	10.1	5.26	10.4	9,410	8,810	---	---	---	---	---	---	38.79	10.13	28.66	9.6/5.2
S-2	03/09/2000	630 g	2,670	1,190 a	62.7	84.1	125	29,200 a	31,400 a	---	---	---	---	---	---	38.78	7.88	30.90	7.6/5.0
S-2	06/20/2000	401 g	<5,000	348	<50.0	50.4	127	35,800	33,900 a	---	---	---	---	---	---	38.78	10.27	28.51	1.9/2.2
S-2	09/05/2000	373 g	<5,000	106	<50.0	<50.0	<50.0	25,800	37,100 a	---	---	---	---	---	---	38.78	10.19	28.59	0.5/1.6
S-2	12/04/2000	1,730 g	<250	4.37	<2.50	<2.50	<2.50	4,500	5,130 a	---	---	---	---	---	---	38.78	10.30	28.48	10.6/9.4
S-2	12/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.78	9.66	29.12	---
S-2	03/08/2001	<51.3	<2,500	318	45.7	53.5	88.5	15,500	17,500	---	---	---	---	---	---	38.78	8.57	30.21	2.7 b
S-2	06/07/2001	11,000	18,000	450	170	390	2,200	13,000	18,000	---	---	---	---	---	---	38.78	9.39	29.39	1.1/2.0

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-2	09/13/2001	<5,000	13,000	140	110	350	1,400	---	9,200	---	---	---	---	---	---	38.78	10.34	28.44	11.0/4.5
S-2	11/19/2001	8,700	15,000	71	27	86	330	---	7,500	---	---	---	---	---	---	38.78	9.90	28.88	5.0/3.1
S-2	03/18/2002	14,000	3,700	93	<20	35	100	---	7,500	---	---	---	---	---	---	38.78	9.91	28.87	0.9/4.2
S-2	06/19/2002	<2,000	2,100	92	<10	24	50	---	4,700	---	---	---	---	---	---	38.78	9.98	28.80	---
S-2	09/11/2002	<450	2,100	54	<5.0	19	55	---	1,900	---	---	---	---	---	---	38.78	10.25	28.53	3.5
S-2	12/11/2002	1,900	570	9.4	<2.5	7.2	14	---	1,100	---	---	---	---	---	---	38.47	9.99	28.48	2.0
S-2	03/11/2003	<1,800	2,900	150	5.5	54	84	---	870	---	---	---	---	---	---	38.47	9.25	29.22	2.4
S-2	06/10/2003	840 g	2,200	83	<5.0	22	52	---	970	---	---	---	---	---	---	38.47	9.20	29.27	5.0
S-2	09/09/2003	270 g	1,200	57	<2.5	11	33	---	740	---	---	---	---	---	---	38.47	9.70	28.77	3.7
S-2	12/09/2003	1,900 g	3,100	84	<5.0	45	90	---	660	---	---	---	---	---	---	38.47	9.31	29.16	24.21
S-2	03/09/2004	990 g	1,600	140	<5.0	31	49	---	610	---	---	---	---	---	---	38.47	8.24	30.23	2.6
S-2	06/08/2004	400 g	640	40	<2.5	4.2	6.6	---	460	---	---	---	---	---	---	38.47	9.40	29.07	8.2
S-2	09/07/2004	240 e	<100	6.6	<1.0	1.3	2.3	---	140	450	<4.0	<4.0	<4.0	---	---	38.47	9.78	28.69	2.4
S-2	12/06/2004	140 g	260	26	<1.0	2.0	<2.0	---	270	---	---	---	---	---	---	38.47	9.45	29.02	8.5
S-2	03/07/2005	450 e	2,300	100	<5.0	11	<10	---	570	---	---	---	---	---	---	38.47	7.82	30.65	16.7
S-2	06/10/2005	550 g	<2,500	200	<25	<25	<50	---	630	---	---	---	---	---	---	38.47	8.37	30.10	0.70
S-2	07/14/2005	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	05/28/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.33	8.45	28.88	---
S-3	06/03/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.33	8.36	28.97	---
S-3	01/19/1900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.33	8.41	28.92	---
S-3	06/29/1993	---	29,000	1,500	1,800	950	6,200	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	09/21/1993	---	15,000	900	2,200	2,600	11,000	---	---	---	---	---	---	---	---	37.33	10.08	27.25	---
S-3	12/14/1993	---	20,000	1,100	2,400	1,800	8,500	---	---	---	---	---	---	---	---	37.33	8.80	28.53	---
S-3	03/17/1994	---	14,000	580	190	750	1,700	---	---	---	---	---	---	---	---	37.33	8.34	28.99	---
S-3	06/16/1994	---	20,000	700	690	1,400	4,100	---	---	---	---	---	---	---	---	37.33	9.12	28.21	---
S-3 (D)	06/16/1994	---	19,000	680	560	1,300	3,700	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	09/22/1994	---	24,000	630	1,100	1,400	5,700	---	---	---	---	---	---	---	---	37.33	10.27	27.06	---
S-3 (D)	09/22/1994	---	25,000	720	1,100	1,500	6,100	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	12/15/1994	---	18,000	520	800	1,100	4,200	---	---	---	---	---	---	---	---	37.33	7.81	29.52	---
S-3 (D)	12/15/1994	---	23,000	1,000	1,900	2,000	8,600	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	03/30/1995	---	8,800 a	360 a	730 a	700 a	3,700 a	---	---	---	---	---	---	---	---	37.33	7.06	30.27	---
S-3 (D)	03/30/1995	---	7,600 a	330 a	570 a	600 a	2,600 a	---	---	---	---	---	---	---	---	37.33	---	---	---

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-3	06/20/1995	---	9,600	510	170	960	1,700	---	---	---	---	---	---	---	---	37.33	8.15	29.18	---
S-3 (D)	06/20/1995	---	9,800	500	170	950	1,700	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	09/20/1995	---	21,000	400	560	1,300	4,600	---	---	---	---	---	---	---	---	37.33	9.32	28.01	---
S-3	12/06/1995	---	24,000	630	1,400	1,400	6,000	---	---	---	---	---	---	---	---	37.33	10.53	26.80	---
S-3 (D)	12/06/1995	---	22,000	630	1,200	1,400	5,500	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	03/21/1996	---	9,100	290	110	490	1,600	---	---	---	---	---	---	---	---	37.33	7.32	30.01	---
S-3 (D)	03/21/1996	---	11,000	310	250	540	2,100	---	---	---	---	---	---	---	---	37.33	---	---	---
S-3	09/06/1996	---	15,000	440	300	1,100	3,000	500	---	---	---	---	---	---	---	37.33	10.10	27.23	---
S-3 (D)	09/06/1996	---	11,000	490	170	820	1,500	700	---	---	---	---	---	---	---	37.33	---	---	---
S-3	12/19/1996	---	12,000	600	380	850	2,500	380	---	---	---	---	---	---	---	37.33	8.36	28.97	---
S-3 (D)	12/19/1996	---	12,000	590	380	830	2,500	540	---	---	---	---	---	---	---	37.33	8.36	28.97	---
S-3	03/17/1997	---	12,000	520	140	740	1,400	320	---	---	---	---	---	---	---	37.33	8.57	28.76	---
S-3 (D)	03/17/1997	---	9,600	500	100	680	1,100	<250	---	---	---	---	---	---	---	37.33	8.57	28.76	---
S-3	06/11/1997	---	9,600	510	94	740	1,100	410	---	---	---	---	---	---	---	37.33	9.26	28.07	---
S-3	09/17/1997	---	21,000	140	560	1,800	7,200	130	---	---	---	---	---	---	---	37.33	9.62	27.71	---
S-3	12/11/1997	---	24,000	530	970	1,600	6,900	950	---	---	---	---	---	---	---	37.33	7.34	29.99	---
S-3 (D)	12/11/1997	---	29,000	520	1,000	1,600	7,300	970	---	---	---	---	---	---	---	37.33	7.34	29.99	---
S-3	03/16/1998	---	29,000	840	810	1,700	6,000	<250	---	---	---	---	---	---	---	37.33	5.75	31.58	3.0/3.4
S-3	06/23/1998	---	3,800	90	220	240	1,400	<50	---	---	---	---	---	---	---	37.33	5.98	31.35	4.2/2.0
S-3	09/01/1998	---	9,600	480	120	870	1,800	490	<50	---	---	---	---	---	---	37.33	8.98	28.35	1.9/2.8
S-3 (D)	09/01/1998	---	9,200	420	110	800	1,700	110	<50	---	---	---	---	---	---	37.33	8.98	28.35	1.9/2.8
S-3	12/30/1998	---	7,660	240	103	410	834	64.9	---	---	---	---	---	---	---	37.33	9.11	28.22	1.8/1.6
S-3	03/30/1999	---	2,070	195	10.0	<5.00	48.6	354	64.6	---	---	---	---	---	---	37.33	6.95	30.38	1.3/1.5
S-3	03/31/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.33	7.48	29.85	---
S-3	06/14/1999	---	1,250	37.4	17.4	110	109	118	---	---	---	---	---	---	---	37.33	8.85	28.48	---
S-3	09/30/1999	2,020 g	8,270	226	113	686	1,440	184	---	---	---	---	---	---	---	37.33	9.66	27.67	3.5/2.8
S-3	12/22/1999	2,270 g	9,530	207	132	603	1,450	616	---	---	---	---	---	---	---	37.33	9.50	27.83	0.98/0.8
S-3	03/09/2000	1,600 g	2,290 a	84.5 a	17.0 a	104 a	105 a	29.3 a	---	---	---	---	---	---	---	37.30	6.25	31.05	1.0/1.4
S-3	06/20/2000	2,900 g	5,570	117	41.6	395	393	354	---	---	---	---	---	---	---	37.30	9.67	27.63	1.8/2.0
S-3	09/05/2000	1,600 g	6,930	127	85.5	354	535	509	---	---	---	---	---	---	---	37.30	9.49	27.81	1.1/1.9
S-3	12/04/2000	1,460 g	8,390	217	82.4	471	952	436	---	---	---	---	---	---	---	37.30	9.23	28.07	1.1/1.5
S-3	12/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.30	9.23	28.07	---
S-3	03/08/2001	1,720 g	19,400	465	772	1,230	3,830	160	---	---	---	---	---	---	---	37.30	8.17	29.13	1.1 c

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-3	06/07/2001	1,400	12,000	230	110	900	1,100	120	---	---	---	---	---	---	---	37.30	8.78	28.52	0.8/0.9
S-3	09/13/2001	<2,000	32,000	400	880	2,000	7,000	---	<100	---	---	---	---	---	---	37.30	9.93	27.37	3.7/2.9
S-3	11/19/2001	<2,000	26,000	160	210	990	4,100	---	<50	---	---	---	---	---	---	37.30	9.33	27.97	2.9/1.9
S-3	03/18/2002	810	3,800	61	120	130	620	---	5.0	---	---	---	---	---	---	37.30	7.03	30.27	1.1/4.7
S-3	06/19/2002	<500	3,200	48	81	160	360	---	9.4	---	---	---	---	---	---	37.30	8.92	28.38	---
S-3	09/11/2002	<1,100	16,000	230	570	980	3,900	---	<50	---	---	---	---	---	---	37.30	9.54	27.76	3.0
S-3	12/11/2002	<1,500	16,000	130	270	770	3,000	---	<50	---	---	---	---	---	---	36.85	9.23	27.62	1.6
S-3	03/11/2003	<1,500	8,100	29	110	190	1,700	---	<20	---	---	---	---	---	---	36.85	7.32	29.53	3.9
S-3	06/10/2003	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	36.85	---	---	---
S-3	09/09/2003	640 g	5,900	44	140	130	1,500	---	4.4	---	---	---	---	---	---	36.85	8.99	27.86	2.2
S-3	12/09/2003	1,500 g	27,000	130	460	550	4,900	---	<20	---	---	---	---	---	---	36.85	7.67	29.18	1.6
S-3	03/09/2004	1,700 g	11,000	24	100	230	3,200	---	<5.0	---	---	---	---	---	---	36.85	6.35	30.50	2.1
S-3	06/08/2004	1,100 g	1,700	11	34	29	420	---	<2.5	---	---	---	---	---	---	36.85	8.25	28.60	0.1
S-3	09/07/2004	310 e	850	13	0.99	23	17	---	7.0	<5.0	<2.0	<2.0	<2.0	---	---	36.85	9.05	27.80	0.1
S-3	12/06/2004	Unable to sample		---	---	---	---	---	---	---	---	---	---	---	---	36.85	7.70	29.15	---
S-3	12/15/2004	270 e	620	1.9	7.8	10	180	---	<0.50	---	---	---	---	---	---	36.85	5.83	31.02	2.4
S-3	03/07/2005	400 e	4,500	<0.50	7.7	30	350	---	<0.50	---	---	---	---	---	---	36.85	4.58	32.27	4.4
S-3	06/10/2005	130 g	850	<0.50	1.3	7.4	53	---	<0.50	---	---	---	---	---	---	36.85	5.40	31.45	0.17
S-3	07/14/2005	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	03/29/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.06	8.37	30.69	---
S-4	03/31/2000	5,780 g	20,900	4,570	272	595	997	4,490	4,450 a	---	---	---	---	---	---	39.06	8.92	30.14	1.8/1.2
S-4	06/20/2000	244 g	19,500	4,590	309	723	1,290	3,740	---	---	---	---	---	---	---	39.06	8.77	30.29	2.7/2.9
S-4	09/05/2000	1,670 g	5,760	841	54.2	162	115	1,040	---	---	---	---	---	---	---	39.06	10.57	28.49	1.3/0.3
S-4	12/04/2000	1,050 g	3,990	949	<10.0	118	48.3	1,120	---	---	---	---	---	---	---	39.06	10.67	28.39	1.1/1.0
S-4	12/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.06	10.64	28.42	---
S-4	03/08/2001	5,840 g	20,100	5,210	105	381	281	2,520	---	---	---	---	---	---	---	39.06	8.44	30.62	1.0/0.9
S-4	06/07/2001	3,500	11,000	2,500	86	370	170	2,000	---	---	---	---	---	---	---	39.06	10.57	28.49	0.7/0.6
S-4	09/13/2001	<800	4,200	790	14	110	48	---	690	---	---	---	---	---	---	39.06	11.27	27.79	3.8/3.9
S-4	11/19/2001	<600	2,300	230	4.1	21	22	---	590	---	---	---	---	---	---	39.06	10.83	28.23	3.6/1.6
S-4	03/18/2002	Unable to sample		---	---	---	---	---	---	---	---	---	---	---	---	39.06	8.75	30.31	---
S-4	03/29/2002	---	14,000	1,700	30	280	250	---	960	---	---	---	---	---	---	39.06	8.85 d	30.21	3.0/3.1
S-4	06/19/2002	<1,500	4,700	620	9.5	84	37	---	490	---	---	---	---	---	---	---	10.37 d	---	---

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-4	09/11/2002	280	2,700	280	4.6	23	13	---	410	---	---	---	---	---	---	---	11.14	---	0.6
S-4	12/11/2002	<900	3,300	320	5.7	24	15	---	420	---	---	---	---	---	---	38.69	10.78	27.91	2.2
S-4	03/11/2003	<5,600	12,000	1,900	63	360	280	---	930	---	---	---	---	---	---	38.69	9.31	29.38	1.5
S-4	06/10/2003	3,100 g	13,000	2,400	86	650	380	---	1,100	---	---	---	---	---	---	38.69	9.77	28.92	0.8
S-4	09/09/2003	1,700 g	3,700	510	12	43	43	---	650	---	---	---	---	---	---	38.69	10.78	27.91	0.9
S-4	12/09/2003	390 g	3,900	150	4.2	7.5	13	---	510	---	---	---	---	---	---	38.69	10.20	28.49	0.1
S-4	03/09/2004	3,100 g	13,000	2,500	110	810	1,100	---	1,100	---	---	---	---	---	---	38.69	7.67	31.02	0.7
S-4	06/08/2004	1,400 g	6,100	870	30	120	150	---	420	---	---	---	---	---	---	38.69	10.27	28.42	0.3
S-4	09/07/2004	890 e	3,100	290	6.4	18	14	---	250	140	<10	<10	<10	---	---	38.69	10.91	27.78	0.1
S-4	12/06/2004	670 e	4,900	520	9.9	38	24	---	290	---	---	---	---	---	---	38.69	10.03	28.66	0.2
S-4	03/07/2005	2,900 e	28,000	2,300	130	690	770	---	770	---	---	---	---	---	---	38.69	6.20	32.49	0.2
S-4	06/10/2005	2,700 e	13,000	1,900	81	380	460	---	890	---	---	---	---	---	---	38.69	8.90	29.79	0.15
S-4	07/14/2005	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	05/31/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.54	---	---
S-5	06/19/2002	<2,000	16,000	2,600	320	180	1,600	---	5,300	---	---	---	---	---	---	---	9.87	---	---
S-5	09/11/2002	<1,200	8,800	1,500	64	89	120	---	5,600	---	---	---	---	---	---	---	10.28	---	0.9
S-5	12/11/2002	<1,000	4,400	280	61	130	130	---	4,000	---	---	---	---	---	---	---	9.87	---	2.9
S-5	03/11/2003	<900	2,300	28	5.6	59	15	---	2,400	---	---	---	---	---	---	38.05	8.26	29.79	1.6
S-5	06/10/2003	620 g	2,400	11	7.2	56	38	---	1,100	---	---	---	---	---	---	38.05	8.51	29.54	0.1
S-5	09/09/2003	660 g	3,700	23	14	44	150	---	440	---	---	---	---	---	---	38.05	9.44	28.61	0.1
S-5	12/09/2003	600 g	12,000	200	80	41	320	---	580	---	---	---	---	---	---	38.05	9.50	28.55	0.4
S-5	03/09/2004	550 g	2,300	130	3.5	6.9	13	---	250	---	---	---	---	---	---	38.05	7.04	31.01	0.2
S-5	06/08/2004	490 g	2,900	11	<2.5	8.9	18	---	120	---	---	---	---	---	---	38.05	8.87	29.18	0.2
S-5	09/07/2004	650 e	3,600	17	11	12	30	---	120	3,700	<10	<10	<10	---	---	38.05	9.45	28.60	0.1
S-5	12/06/2004	460 e	4,700	99	28	14	69	---	180	---	---	---	---	---	---	38.05	8.75	29.30	0.1
S-5	03/07/2005	360 e	4,700	440	<2.5	<2.5	<5.0	---	200	---	---	---	---	---	---	38.05	7.28	30.77	0.1
S-5	06/10/2005	240 e	1,200	1.3	<0.50	<0.50	1.2	---	80	---	---	---	---	---	---	38.05	7.26	30.79	0.25
S-5	07/14/2005	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-6	02/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.86	8.18	29.68	---
S-6	03/02/2007	1,700	5,100 a	630 a	23	200	110	---	140	280	---	---	---	13	<0.50	37.86	7.73	30.13	---
S-6	05/23/2007	2,600	5,600 f	510	16	11	144	---	72	66	---	---	---	<2.5	<5.0	37.86	8.13	29.73	---

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)	
S-6	08/28/2007	6,100 g	13,000 f	650	32	480	242	---	78	320	6.1	<10	<10	<2.5	<5.0	37.86	8.44	29.42	---	
S-6	11/13/2007	6,400 g	19,000 f	760	47	500	602	---	68	340	---	---	---	<5.0	<10	37.86	8.78	29.08	---	
S-6	02/08/2008	2,200 g	6,800 f	380	14	130	87.0	---	75	200	---	---	---	<2.5	<5.0	37.86	7.06	30.80	---	
S-6	05/20/2008	2,900 g	12,000 f	590	21	270	60	---	54	240	---	---	---	<2.5	<5.0	37.86	8.60	29.26	---	
S-6	08/12/2008	7,100 g	22,000	890	75	450	1,170	---	71	200	<20	<20	<20	<5.0	<10	37.86	9.21	28.65	---	
S-6	12/02/2008	4,600 g	26,000	1,500	170	670	1,500	---	87	260	---	---	---	<5.0	<10	37.86	8.72	29.14	---	
S-6	02/05/2009	5,200 g	29,000	1,200	210	910	3,400	---	78	230	---	---	---	<5.0	<10	37.86	9.19	28.67	---	
S-6	05/19/2009	1,900 g	8,600	660	22	120	110	---	94	460	---	---	---	<5.0	<10	37.86	8.26	29.60	---	
S-6	09/29/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.86	6.70	31.16	---	
S-6	12/23/2009	1,800 g	4,800	550	12	38	16	---	170	290	<20	<20	<20	<5.0	<10	37.86	6.01	31.85	---	
S-6	03/16/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.86	5.65	32.21	---	
S-6	06/21/2010	2,700 g	8,300	360	11	67	56	---	130	250	---	---	---	<2.5	<5.0	37.86	8.89	28.97	---	
S-6	12/28/2010	2,200 g	6,100	290	11	60	41	---	49	210	5.5	<4.0	<4.0	<1.0	<2.0	37.86	7.63	30.23	---	
S-6	12/23/2011	2,400	12,000	760	24	76	49	---	61	320	<10	<10	<10	<5.0	<5.0	37.86	8.34	29.52	---	
S-6	12/28/2012	1,400	6,500	350	12	14	<10	---	68	200	<5.0	<5.0	<5.0	---	---	37.86	6.50	31.36	---	
S-6	09/19/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.86	8.53	29.33	---	
S-6	12/23/2013	2,600	16,000	970	43	340	260	---	45	200	7.0	<5.0	<5.0	---	---	37.86	8.77	29.09	---	
S-6	03/05/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.86	8.57	29.29	---	
S-6	06/06/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.86	8.44	29.42	---	
S-6	12/08/2014	2,400	12,000	320	15	73	50	---	28	110	<5.0	<5.0	<5.0	---	---	37.86	8.10	29.76	---	
S-6	06/03/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.86	8.53	29.33	---	
S-6	12/17/2015	1,100	15,000	740	29	230	58	---	34	<200	<10	<10	<10	---	---	37.86	9.12	28.74	---	
S-6	06/03/2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.86	8.11	29.75	---	

S-7	02/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.58	7.39	30.19	---	
S-7	03/02/2007	2,500	100,000 a	32,000 a	9,700 a	2,900 a	14,000 a	---	310 a	480	---	---	---	---	<0.50	37.58	7.42	30.16	---	
S-7	05/23/2007	3,700	82,000 f,g	24,000	8,100	2,800	13,000	---	190	<200	---	---	---	---	<20	37.58	8.38	29.20	---	
S-7	08/28/2007	4,500 g	96,000 f	23,000	7,000	2,900	12,200	---	190 h	<2,000	<400	<400	<400	---	<200	37.58	9.32	28.26	---	
S-7	11/13/2007	25,000 g	100,000 f	22,000	6,500	3,000	12,400	---	<200	<2,000	---	---	---	---	<200	37.58	9.60	27.98	---	
S-7	02/08/2008	4,000 g	74,000 f	29,000	9,300	3,100	13,700	---	500	<2,000	---	---	---	---	<200	37.58	6.57	31.01	---	
S-7	05/20/2008	1,600 g	69,000 f	20,000	5,500	2,500	9,800	---	260	<2,000	---	---	---	---	<200	37.58	9.00	28.58	---	
S-7	08/12/2008	4,900 g	120,000	25,000	8,400	2,800	11,700	---	<200	<2,000	<400	<400	<400	<100	<200	37.58	9.81	27.77	---	
S-7	12/02/2008	4,300 g	120,000	24,000	8,400	3,600	15,000	---	320	<2,000	---	---	---	<100	<200	37.58	9.91	27.67	---	

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-7	02/05/2009	3,800 g	99,000	25,000	7,600	2,500	12,000	---	370	<2,000	---	---	---	<100	<200	37.58	9.30	28.28	---
S-7	05/19/2009	3,300 g	64,000	16,000	4,400	2,100	7,100	---	250	<2,000	---	---	---	<100	<200	37.58	8.30	29.28	---
S-7	09/29/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.57	6.13	31.44	---
S-7	12/23/2009	3,900 g	98,000	25,000	7,100	2,100	9,000	---	400	<2000	<400	<400	<400	<100	<200	37.57	5.32	32.25	---
S-7	03/16/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.57	4.82	32.75	---
S-7	06/21/2010	2,400 g	42,000	11,000	2,300	1,300	4,600	---	180	<1,000	---	---	---	<50	<100	37.57	8.19	29.38	---
S-7	12/28/2010	3,500 g	48,000	13,000	3,700	1,800	7,200	---	160	<1,000	<200	<200	<200	<50	<100	37.57	7.05	30.52	---
S-7	12/23/2011	3,200	40,000	11,000	3,300	1,400	6,600	---	<200	<2,000	<200	<200	<200	<100	<100	37.57	8.02	29.55	---
S-7	12/28/2012	2,200	26,000	6,200	2,000	1,000	5,000	---	<100	<2,000	<100	<100	<100	---	---	37.57	5.88	31.69	---
S-7	09/19/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.57	9.08	28.49	---
S-7	12/23/2013	1,600	28,000	9,900	1,200	750	3,300	---	<100	<2,000	<100	<100	<100	---	---	37.57	9.63	27.94	---
S-7	03/05/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.57	8.73	28.84	---
S-7	06/06/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.57	8.96	28.61	---
S-7	12/08/2014	2,500	48,000 j	15,000	2,800	1,400	6,200	---	250	<2,000	<100	<100	<100	---	---	37.57	8.22	29.35	---
S-7	06/03/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.57	9.17	28.40	---
S-7	12/17/2015	860	38,000	13,000	1,300	850	3,000	---	<200	<4,000	<200	<200	<200	---	---	37.57	9.95	27.62	---
S-7	06/03/2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.57	8.75	28.82	---
S-8	02/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.05	6.65	30.40	---
S-8	03/02/2007	2,300	72,000 a	12,000 a	5,600 a	2,900 a	15,000 a	---	120	230	---	---	---	150	<2.5	37.05	6.60	30.45	---
S-8	05/23/2007	5,800	69,000 f,g	12,000	6,700	3,100	19,500	---	160	280	---	---	---	<10	<20	37.05	7.91	29.14	---
S-8	08/28/2007	6,700 g	69,000 f	11,000	4,800	3,100	16,800	---	170	<1,000	<200	<200	<200	<50	<100	37.05	8.79	28.26	---
S-8	11/13/2007	21,000 g	84,000 f	10,000	5,000	3,300	18,300	---	290	<1,000	---	---	---	<50	<100	37.05	8.93	28.12	---
S-8	02/08/2008	4,500 g	54,000 f	11,000	5,500	3,500	18,200	---	200	<1,000	---	---	---	<50	<100	37.05	6.26	30.79	---
S-8	05/20/2008	2,200 g	67,000 f	10,000	5,400	3,900	19,600	---	160	<1,000	---	---	---	<50	<100	37.05	7.40	29.65	---
S-8	08/12/2008	5,200 g	77,000	9,300	3,200	2,500	14,300	---	210	<1,000	<200	<200	<200	<50	<100	37.05	9.10	27.95	---
S-8	12/02/2008	3,600 g	70,000	9,500	2,700	2,500	12,300	---	290	1,200	---	---	---	<50	<100	37.05	9.39	27.66	---
S-8	02/05/2009	3,500 g	74,000	10,000	3,500	2,600	15,000	---	240	<1,000	---	---	---	<50	<100	37.05	8.75	28.30	---
S-8	05/19/2009	340 g	69,000	8,200	3,700	2,900	14,000	---	<100	<1,000	---	---	---	<50	<100	37.05	7.56	29.49	---
S-8	09/29/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.05	5.82	31.23	---
S-8	12/23/2009	4,400 g	58,000	7,800	2,000	2,100	11,000	---	170	<1000	<200	<200	<200	<50	<100	37.05	7.02	30.03	---
S-8	03/16/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.05	4.26	32.79	---
S-8	06/21/2010	3,900 g	74,000	11,000	3,900	3,000	15,000	---	160	<1,000	---	---	---	<50	<100	37.05	7.77	29.28	---

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-8	12/28/2010	4,900 g	57,000	8,700	2,700	2,900	14,000	---	200	<1,000	<200	<200	<200	<50	<100	37.05	6.93	30.12	---
S-8	12/23/2011	4,300	55,000	9,500	3,000	3,700	15,000	---	<200	<2,000	<200	<200	<200	<100	<100	37.05	8.77	28.28	---
S-8	12/28/2012	3,500	55,000	8,300	2,600	3,600	15,000	---	180	<1,000	<50	<50	<50	---	---	37.05	5.92	31.13	---
S-8	09/19/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.05	9.08	27.97	---
S-8	12/23/2013	2,800	55,000	11,000	2,400	3,400	12,000	---	210	<1,000	<50	<50	<50	---	---	37.05	9.49	27.56	---
S-8	03/05/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.05	8.65	28.40	---
S-8	06/06/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.05	8.68	28.37	---
S-8	12/08/2014	3,000	49,000 i,j	9,300	1,800	2,500	8,900	---	89	<1,000	<50	<50	<50	---	---	37.05	8.49	28.56	---
S-8	06/03/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.05	8.90	28.15	---
S-8	12/17/2015	1,500	46,000	11,000	1,700	2,600	8,100	---	<130	<2,500	<130	<130	<130	---	---	37.05	9.53	27.52	---
S-8	06/03/2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.05	8.31	28.74	---
S-9	02/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.52	7.59	29.93	---
S-9	03/02/2007	1,400	12,000	150	200	1,200	2,500	---	5.8	<50	---	---	---	<5.0	<5.0	37.52	7.30	30.22	---
S-9	05/23/2007	2,300	8,200 f	13	38	2.5 h	1,453	---	5.2 h	<100	---	---	---	<5.0	<10	37.52	8.43	29.09	---
S-9	08/28/2007	2,800 g	9,500 f	21	49	540	789	---	<10	<100	<20	<20	<20	<5.0	<10	37.52	9.59	27.93	---
S-9	11/13/2007	2,100 g	12,000 f	19	35	450	499	---	<10	<100	---	---	---	<5.0	<10	37.52	9.91	27.61	---
S-9	02/08/2008	1,900 g	10,000 f	18	67	1,100	1,451	---	<10	<100	---	---	---	<5.0	<10	37.52	6.40	31.12	---
S-9	05/20/2008	1,500 g	11,000 f	150	770	13,000	17,460	---	<100	<1,000	---	---	---	<50	<100	37.52	8.79	28.73	---
S-9	08/12/2008	2,000 g	9,400	16	59	700	834	---	<10	<100	<20	<20	<20	<5.0	<10	37.52	10.00	27.52	---
S-9	12/02/2008	1,300 g	14,000	10	62	980	1,139	---	<10	<100	---	---	---	<5.0	<10	37.52	10.22	27.30	---
S-9	02/05/2009	1,400 g	6,300	11	33	480	600	---	<10	<100	---	---	---	<5.0	<10	37.52	9.49	28.03	---
S-9	05/19/2009	1,500 g	12,000	11	64	940	880	---	<5.0	<50	---	---	---	<2.5	<5.0	37.52	8.20	29.32	---
S-9	09/29/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.52	5.51	32.01	---
S-9	12/23/2009	200 g	890	1.4	<1.0	16	14	---	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	37.52	4.61	32.91	---
S-9	03/16/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.52	5.95	31.57	---
S-9	06/21/2010	520 g	1,300	2.4	4.2	180	26	---	<1.0	<10	---	---	---	<0.50	<1.0	37.52	8.29	29.23	---
S-9	12/28/2010	1,100 g	7,200	3.8	12	650	510	---	<5.0	<50	<10	<10	<10	<2.5	<5.0	37.52	7.04	30.48	---
S-9	12/23/2011	1,300	6,500	6.7	16	240	200	---	<4.0	<40	<4.0	<4.0	<4.0	<2.0	<2.0	37.52	8.48	29.04	---
S-9	12/28/2012	490	2,600	3.4	5.6	91	87	---	<1.3	<25	<1.3	<1.3	<1.3	---	---	37.52	5.90	31.62	---
S-9	09/19/2013	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	37.52	---	---	---
S-9	12/23/2013	660	4,600	4.1	15	15	130	---	<0.50	<10	<0.50	<0.50	<0.50	---	---	37.52	9.88	27.64	---
S-9	03/05/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.52	9.11	28.41	---

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-9	06/06/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.52	9.19	28.33	---
S-9	12/08/2014	810	3,900	5.1	8.5	11	92	---	<2.5	<50	<2.5	<2.5	<2.5	---	---	37.52	8.70	28.82	---
S-9	06/03/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.52	9.41	28.11	---
S-9	12/17/2015	450	3,900	12	12	8.2	67	---	<0.50	<10	<0.50	<0.50	<0.50	---	---	37.52	10.61	26.91	---
S-9	06/03/2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.52	8.86	28.66	---
S-10	09/22/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.43	4.98	32.45	---
S-10	09/29/2009	<50	320	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	<0.50	<1.0	37.43	5.07	32.36	---
S-10	12/23/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	37.43	4.48	32.95	---
S-10	03/16/2010	<50	140	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	<0.50	<1.0	37.43	4.47	32.96	---
S-10	06/21/2010	<50	130	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	<0.50	<1.0	37.43	8.28	29.15	---
S-10	12/28/2010	<50	140	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	37.43	7.09	30.34	---
S-10	12/23/2011	<47	130	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	<1.0	<1.0	<1.0	<0.50	<0.50	37.43	8.20	29.23	---
S-10	12/28/2012	<48	180	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	---	---	37.43	6.10	31.33	---
S-10	09/19/2013	Well not monitored		---	---	---	---	---	---	---	---	---	---	---	---	37.43	---	---	---
S-10	12/23/2013	<48	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	---	---	37.43	9.15	28.28	---
S-10	06/06/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.43	8.91	28.52	---
S-10	12/08/2014	160 k	73	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	---	---	37.43	7.55	29.88	---
S-10	06/03/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.43	9.01	28.42	---
S-10	12/17/2015	81	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	---	---	37.43	9.44	27.99	---
S-10	06/03/2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.43	8.80	28.63	---
S-11	09/22/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36.44	4.50	31.94	---
S-11	09/29/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	<0.50	<1.0	36.44	3.88	32.56	---
S-11	12/23/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	36.44	3.71	32.73	---
S-11	03/16/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	<0.50	<1.0	36.44	3.30	33.14	---
S-11	06/21/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	<0.50	<1.0	36.44	7.49	28.95	---
S-11	12/28/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	36.44	5.96	30.48	---
S-11	12/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	<1.0	<1.0	<1.0	<0.50	<0.50	36.44	7.28	29.16	---
S-11	12/28/2012	<48	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	---	---	36.44	5.00	31.44	---
S-11	09/19/2013	Well not monitored		---	---	---	---	---	---	---	---	---	---	---	---	36.44	---	---	---
S-11	12/23/2013	<48	<50	<0.50	<0.50	<0.50	<1.0	---	0.55	<10	<0.50	<0.50	<0.50	---	---	36.44	9.82	26.62	---
S-11	06/06/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36.44	8.16	28.28	---

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-11	12/08/2014	77 k	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	---	---	36.44	6.72	29.72	---
S-11	06/03/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36.44	8.28	28.16	---
S-11	12/17/2015	110	<50	<0.50	<0.50	<0.50	<1.0	---	0.52	<10	<0.50	<0.50	<0.50	---	---	36.44	8.90	27.54	---
S-11	06/03/2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36.44	8.04	28.40	---
S-12	09/22/2009	Unable to access		---	---	---	---	---	---	---	---	---	---	---	---	36.00	---	---	---
S-12	09/25/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36.00	5.10	30.90	---
S-12	09/29/2009	91 g	280	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	<0.50	<1.0	36.00	3.62	32.38	---
S-12	12/23/2009	120 g	340	<0.50	<1.0	<1.0	<1.0	---	<1.0	15	<2.0	<2.0	<2.0	<0.50	<1.0	36.00	2.91	33.09	---
S-12	03/16/2010	<50	78	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	<0.50	<1.0	36.00	2.78	33.22	---
S-12	06/21/2010	210 g	380	7.6	<1.0	<1.0	<1.0	---	4.8	50	---	---	---	<0.50	<1.0	36.00	8.48	27.52	---
S-12	12/28/2010	81	410	<0.50	<1.0	<1.0	<1.0	---	<1.0	30	2.4	<2.0	<2.0	<0.50	<1.0	36.00	5.60	30.40	---
S-12	12/23/2011	140	490	<0.50	<0.50	<0.50	<1.0	---	<1.0	14	1.4	<1.0	<1.0	<0.50	<0.50	36.00	7.01	28.99	---
S-12	12/28/2012	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	36.00	---	---	---
S-12	09/19/2013	Well not monitored		---	---	---	---	---	---	---	---	---	---	---	---	36.00	---	---	---
S-12	12/23/2013	80	180	<0.50	<0.50	<0.50	<1.0	---	1.7	51	3.7	<0.50	<0.50	---	---	36.00	8.35	27.65	---
S-12	06/06/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36.00	7.99	28.01	---
S-12	12/08/2014	110	400	<0.50	<0.50	<0.50	<1.0	---	1.2	29	2.5	<0.50	<0.50	---	---	36.00	6.40	29.60	---
S-12	06/03/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36.00	8.16	27.84	---
S-12	12/17/2015	130	110	<0.50	<0.50	<0.50	<1.0	---	1.3	26	2.9	<0.50	<0.50	---	---	36.00	8.88	27.12	---
S-12	06/03/2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36.00	7.84	28.16	---
S-13	09/06/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.19	9.34	27.85	---
S-13	09/19/2013	---	25,000	210	420	520	7,600	---	<20	<400	<20	<20	<20	---	---	37.19	9.33	27.86	---
S-13	12/23/2013	---	32,000	280	750	1,900	9,000	---	<10	<200	<10	<10	<10	---	---	37.19	9.82	27.37	---
S-13	03/05/2014	---	24,000	220	660	1,300	6,700	---	<20	<400	<20	<20	<20	---	---	37.19	8.85	28.34	---
S-13	06/06/2014	---	45,000 i	300	990	2,500	11,000	---	<20	<400	<20	<20	<20	---	---	37.19	8.81	28.38	---
S-13	12/08/2014	---	19,000	190	380	950	4,000	---	<20	<400	<20	<20	<20	---	---	37.19	8.98	28.21	---
S-13	06/03/2015	---	30,000	210	730	2,200	7,400	---	<50	<1,000	<50	<50	<50	---	---	37.19	9.92	27.27	---
S-13	12/17/2015	1,200	34,000	240	750	2,600	8,100	---	<50	<1,000	<50	<50	<50	---	---	37.19	10.41	26.78	---
S-13	06/03/2016	---	21,000	200	370	1,300 l	3,300	---	<20	<400	<20	<20	<20	---	---	37.19	8.22	28.97	---
S-14	09/06/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.14	9.28	27.86	---

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
S-14	09/19/2013	---	7,600	360	48	140	490	---	8.8	<50	<2.5	<2.5	<2.5	---	---	37.14	9.41	27.73	---
S-14	12/23/2013	---	10,000	620	77	610	670	---	<5.0	<100	<5.0	<5.0	<5.0	---	---	37.14	9.71	27.43	---
S-14	03/05/2014	---	8,000	470	79	450	630	---	<2.5	<50	<2.5	<2.5	<2.5	---	---	37.14	8.63	28.51	---
S-14	06/06/2014	---	6,400 i	270	39	240	370	---	2.9	<50	<2.5	<2.5	<2.5	---	---	37.14	9.08	28.06	---
S-14	12/08/2014	---	8,800	430	58	520	570	---	4.4	<50	<2.5	<2.5	<2.5	---	---	37.14	8.60	28.54	---
S-14	06/03/2015	---	9,500	160	28	350	700	---	<5.0	<100	<5.0	<5.0	<5.0	---	---	37.14	9.02	28.12	---
S-14	12/17/2015	890	13,000	490	58	460	1,000	---	<5.0	<100	<5.0	<5.0	<5.0	---	---	37.14	9.87	27.27	---
S-14	06/03/2016	---	670	19	1.4	6.3	25	---	<0.50	10	<0.50	<0.50	<0.50	---	---	37.14	8.65	28.49	---
BW-A	09/30/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.55	---	2.3
BW-A	12/22/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.52	---	2.2
BW-A	03/09/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.99	---	1.5
BW-A	06/20/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.69	---	2.4
BW-A	09/05/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.43	---	1.0
BW-A	12/04/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8.96	---	1.3
BW-A	12/12/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8.71	---	---
BW-A	03/08/2001	1,370 g	<2,500	46.6	<25.0	<25.0	<25.0	10,600	11,700	---	---	---	---	---	---	---	6.38	---	0.9/1.4
BW-A	06/07/2001	960	1,100	<10	<10	<10	17	7,200	---	---	---	---	---	---	---	---	9.82	---	3.6/0.8
BW-A	09/13/2001	460	<2,000	<20	<20	<20	<50	---	13,000	---	---	---	---	---	---	---	10.49	---	3.3/1.7
BW-A	11/19/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.89	---	---

Notes: See following page

Table 1
Groundwater Data
Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

- Notes:**
- TPHd = Total petroleum hydrocarbons as diesel (C10-C28) by modified EPA Method 8015; after February 22, 2007, analyzed with silica gel cleanup
 - TPHg = Total petroleum hydrocarbons as gasoline (C4-C12) by EPA Method 8260B; prior to September 13, 2001, analyzed by EPA Method 8015 unless otherwise noted
 - BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to September 13, 2001, analyzed by EPA Method 8020
 - MTBE = Methyl tertiary-butyl ether analyzed by method noted
 - TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
 - DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
 - ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
 - TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
 - 1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
 - EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B
 - TOC = Top of casing elevation, in feet relative to mean sea level
 - GW = Groundwater
 - DO = Dissolved oxygen
 - µg/L = Micrograms per liter
 - ft = Feet
 - MSL = Mean sea level
 - mg/L = Milligrams per liter
 - <x = Not detected at reporting limit x
 - = Not analyzed or not available
 - x/x = Pre-purge/post-purge DO reading
 - a = Sample analyzed outside the EPA recommended holding time.
 - b = Post-purge DO reading.
 - c = Pre-purge DO reading.
 - d = Estimated depth to water.
 - e = Hydrocarbon reported is in the early diesel range and does not match the laboratory's standard.
 - f = Analyzed by EPA Method 8015B (M).
 - g = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard.
 Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
 - h = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
 - i = Concentration reported is due to the presence of discrete peaks of xylenes.
 - j = Concentration reported is due to the presence of discrete peak of benzene.
 - k = Hydrocarbon result partly due to individual peak in quantitation range.
 - l = MS and/or MSD Recovery is outside acceptance limits.

Prior to December 12, 2002, depth to water referenced to top of well box elevation.
 Wells S-1 through S-4 surveyed February 3, 2000 by Virgil Chavez Land Surveying.
 Wells S-1 through S-4 surveyed March 5, 2002 by Virgil Chavez Land Surveying.
 Well S-5 surveyed May 29, 2003 by Virgil Chavez Land Surveying.
 Wells S-6 through S-9 surveyed February 21, 2007 by Virgil Chavez Land Surveying.
 Wells S-6 through S-12 surveyed October 26, 2009 by Virgil Chavez Land Surveying.
 Wells S-13 and S-14 surveyed on September 14, 2013 by Virgil Chavez Land Surveying.

Appendix A

Field Notes

(Blaine Tech Services, Inc.)

WELL GAUGING DATA

Project # 160603-RH1 Date 6/3/16 Client AECOM / Shell

Site 4411 Foothill 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 <u>TOC</u>	Notes	
S-6	0846	4					8.11	19.36			
S-7	0843	4					8.75	19.34			
S-8	0845	4					8.31	19.57			
S-9	0850	4					8.86	19.45			
S-10	0900	4					8.80	19.57			
S-11	0904	4					8.04	19.60			
S-12	0907	4					7.84	19.61			
S-13	0915	4	odor				8.22	19.26			
S-14	0912	4	odor				8.65	19.24		└	

INCIDENT # 95995746

ADDRESS 4411 Foothill Blvd.

DATE: 6/3/16

CITY & STATE Oakland CA

Well ID	Observations Upon Arrival													Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials				
	Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition								
S-6	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N				
S-7	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N				
S-8	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N				
S-9	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N				
S-10	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N				
S-11	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N				
S-12	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N				
S-13	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N				
S-14	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N				
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N				
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N				
TOTAL # CAPS REPLACED =					0	TOTAL # OF LOCKS REPLACED					0										
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																					
Building																					
Building w/ Fence Comp.		G			P			N/A			Y			N			N/A			Y	N
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				

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 / Blaine Tech
Print or type Name of Field Personnel & Consultant Company

NO. 721609

N-HAZARDOUS WASTE DATA FORM

BESI # _____

Generator's Name and Mailing Address
SHELL OIL PRODUCTS US
C/O AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CA 94612

Generator's Site Address (if different than mailing address)
SHELL OIL 10050562
4411 FOOTHILL BOULEVARD
OAKLAND, CA 94601

Generator's Phone: 510-874-3255

Container type removed from site:

Drums Vacuum Truck Roll-off Truck Dump Truck

Other Tank on truck

Quantity 27 gallons

Container type transported to receiving facility:

Drums Vacuum Truck Roll-off Truck Dump Truck

Other _____

Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS WELL PURGING / DECON WATER

COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%

2. TPH		<1%
--------	--	-----

COMPONENTS OF WASTE	PPM	%
3. _____		

4. _____		
----------	--	--

Waste Profile _____ PROPERTIES: pH 7-10 SOLID LIQUID SLUDGE SLURRY OTHER _____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING

Generator Printed/Typed Name <u>Rodolfo Huerta</u>	Signature <u>Rodolfo</u>	Month Day Year <u>16 3 16</u>
---	-----------------------------	--------------------------------------

The Generator certifies that the waste as described is 100% non-hazardous

Transporter 1 Company Name <u>BLAINE TECH SERVICES, INC.</u>	Phone# <u>408-573-0555</u>
---	-------------------------------

Transporter 1 Printed/Typed Name <u>Rodolfo Huerta</u>	Signature <u>Rodolfo</u>	Month Day Year <u>16 3 16</u>
---	-----------------------------	--------------------------------------

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name	Phone#
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Transporter 2 Printed/Typed Name	Signature	Month Day Year
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Transporter Acknowledgment of Receipt of Materials

Designated Facility Name and Site Address <u>DEMENNO KERDOON 2000 N. ALAMEDA ST. COMPTON, CA 90222</u>	Phone# <u>310-537-7100</u>
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Printed/Typed Name	Signature	Month Day Year
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Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

Appendix B

Analytical Report (TestAmerica Laboratories, Inc.)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-72688-1
Client Project/Site: Shell- 4411 Foothill Blvd., Oakland

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

Attn: Sara Heikkila

Beth Riley

Authorized for release by:
6/13/2016 10:18:43 AM

Beth Riley, Project Manager II
(714)258-8610
beth.riley@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

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Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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)

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

Job ID: 720-72688-1

Laboratory: TestAmerica Pleasanton

Narrative

**Job Narrative
720-72688-1**

Comments

No additional comments.

Receipt

The samples were received on 6/6/2016 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° 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.

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Detection Summary

Client: AECOM Technical Services Inc.
 Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

Client Sample ID: S-13

Lab Sample ID: 720-72688-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Volatile Fuel Hydrocarbons (C4-C12)	21000		2000		ug/L	40		8260B/CA_LUFT MS	Total/NA
Benzene	200		20		ug/L	40		8260B	Total/NA
Ethylbenzene	1300	F1	20		ug/L	40		8260B	Total/NA
m,p-Xylene	3000		40		ug/L	40		8260B	Total/NA
o-Xylene	340		20		ug/L	40		8260B	Total/NA
Toluene	370		20		ug/L	40		8260B	Total/NA
Xylenes, Total	3300		40		ug/L	40		8260B	Total/NA

Client Sample ID: S-14

Lab Sample ID: 720-72688-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Volatile Fuel Hydrocarbons (C4-C12)	670		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	19		0.50		ug/L	1		8260B	Total/NA
Ethylbenzene	6.3		0.50		ug/L	1		8260B	Total/NA
m,p-Xylene	23		1.0		ug/L	1		8260B	Total/NA
o-Xylene	1.6		0.50		ug/L	1		8260B	Total/NA
Toluene	1.4		0.50		ug/L	1		8260B	Total/NA
Xylenes, Total	25		1.0		ug/L	1		8260B	Total/NA
tert-Butyl alcohol (TBA)	10		10		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

Client Sample ID: S-13

Date Collected: 06/03/16 11:45

Date Received: 06/06/16 17:30

Lab Sample ID: 720-72688-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	21000		2000		ug/L			06/10/16 21:58	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	105		76 - 132					06/10/16 21:58	40
<i>4-Bromofluorobenzene (Surr)</i>	94		80 - 120					06/10/16 21:58	40
<i>Toluene-d8 (Surr)</i>	103		80 - 128					06/10/16 21:58	40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	200		20		ug/L			06/10/16 21:58	40
Ethylbenzene	1300	F1	20		ug/L			06/10/16 21:58	40
m,p-Xylene	3000		40		ug/L			06/10/16 21:58	40
o-Xylene	340		20		ug/L			06/10/16 21:58	40
Toluene	370		20		ug/L			06/10/16 21:58	40
Xylenes, Total	3300		40		ug/L			06/10/16 21:58	40
tert-Butyl alcohol (TBA)	ND		400		ug/L			06/10/16 21:58	40
Methyl-t-Butyl Ether (MTBE)	ND		20		ug/L			06/10/16 21:58	40
Ethyl-t-butyl ether (ETBE)	ND		20		ug/L			06/10/16 21:58	40
Isopropyl Ether (DIPE)	ND		20		ug/L			06/10/16 21:58	40
Ethanol	ND		6000		ug/L			06/10/16 21:58	40
Tert-amyl-methyl ether (TAME)	ND		20		ug/L			06/10/16 21:58	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	105		76 - 132					06/10/16 21:58	40
<i>4-Bromofluorobenzene (Surr)</i>	94		80 - 120					06/10/16 21:58	40
<i>Toluene-d8 (Surr)</i>	103		80 - 128					06/10/16 21:58	40

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

Client Sample ID: S-14

Date Collected: 06/03/16 11:35

Date Received: 06/06/16 17:30

Lab Sample ID: 720-72688-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	670		50		ug/L			06/11/16 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	104		76 - 132					06/11/16 00:45	1
<i>4-Bromofluorobenzene (Surr)</i>	93		80 - 120					06/11/16 00:45	1
<i>Toluene-d8 (Surr)</i>	102		80 - 128					06/11/16 00:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	19		0.50		ug/L			06/11/16 00:45	1
Ethylbenzene	6.3		0.50		ug/L			06/11/16 00:45	1
m,p-Xylene	23		1.0		ug/L			06/11/16 00:45	1
o-Xylene	1.6		0.50		ug/L			06/11/16 00:45	1
Toluene	1.4		0.50		ug/L			06/11/16 00:45	1
Xylenes, Total	25		1.0		ug/L			06/11/16 00:45	1
tert-Butyl alcohol (TBA)	10		10		ug/L			06/11/16 00:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/11/16 00:45	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			06/11/16 00:45	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			06/11/16 00:45	1
Ethanol	ND		150		ug/L			06/11/16 00:45	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			06/11/16 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	104		76 - 132					06/11/16 00:45	1
<i>4-Bromofluorobenzene (Surr)</i>	93		80 - 120					06/11/16 00:45	1
<i>Toluene-d8 (Surr)</i>	102		80 - 128					06/11/16 00:45	1

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DBFM (76-132)	BFB (80-120)	TOL (80-128)
720-72688-1	S-13	105	94	103
720-72688-1 MS	S-13	108	91	99
720-72688-1 MSD	S-13	107	94	101
720-72688-2	S-14	104	93	102
LCS 440-335871/5	Lab Control Sample	101	93	106
MB 440-335871/8	Method Blank	104	93	105

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DBFM (76-132)	BFB (80-120)	TOL (80-128)
720-72688-1	S-13	105	94	103
720-72688-1 MS	S-13	108	91	99
720-72688-1 MSD	S-13	107	94	101
720-72688-2	S-14	104	93	102
LCS 440-335872/6	Lab Control Sample	99	93	105
MB 440-335872/8	Method Blank	104	93	105

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

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

Lab Sample ID: MB 440-335871/8
Matrix: Water
Analysis Batch: 335871

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			06/10/16 21:30	1
Ethylbenzene	ND		0.50		ug/L			06/10/16 21:30	1
m,p-Xylene	ND		1.0		ug/L			06/10/16 21:30	1
o-Xylene	ND		0.50		ug/L			06/10/16 21:30	1
Toluene	ND		0.50		ug/L			06/10/16 21:30	1
Xylenes, Total	ND		1.0		ug/L			06/10/16 21:30	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			06/10/16 21:30	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/10/16 21:30	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			06/10/16 21:30	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			06/10/16 21:30	1
Ethanol	ND		150		ug/L			06/10/16 21:30	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			06/10/16 21:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		76 - 132		06/10/16 21:30	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/10/16 21:30	1
Toluene-d8 (Surr)	105		80 - 128		06/10/16 21:30	1

Lab Sample ID: LCS 440-335871/5
Matrix: Water
Analysis Batch: 335871

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	24.8		ug/L		99	68 - 130
Ethylbenzene	25.0	23.4		ug/L		94	70 - 130
m,p-Xylene	25.0	26.2		ug/L		105	70 - 130
o-Xylene	25.0	24.8		ug/L		99	70 - 130
Toluene	25.0	24.9		ug/L		100	70 - 130
tert-Butyl alcohol (TBA)	250	232		ug/L		93	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	21.2		ug/L		85	63 - 131
Ethyl-t-butyl ether (ETBE)	25.0	21.2		ug/L		85	60 - 136
Isopropyl Ether (DIPE)	25.0	26.6		ug/L		106	58 - 139
Ethanol	1000	945		ug/L		95	50 - 149
Tert-amyl-methyl ether (TAME)	25.0	22.6		ug/L		90	57 - 139

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	101		76 - 132
4-Bromofluorobenzene (Surr)	93		80 - 120
Toluene-d8 (Surr)	106		80 - 128

Lab Sample ID: 720-72688-1 MS
Matrix: Water
Analysis Batch: 335871

Client Sample ID: S-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	200		1000	1180		ug/L		97	66 - 130
Ethylbenzene	1300	F1	1000	1940	F1	ug/L		69	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

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

Lab Sample ID: 720-72688-1 MS

Matrix: Water

Analysis Batch: 335871

Client Sample ID: S-13

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
m,p-Xylene	3000		1000	3880		ug/L		83	70 - 133
o-Xylene	340		1000	1280		ug/L		94	70 - 133
Toluene	370		1000	1230		ug/L		86	70 - 130
tert-Butyl alcohol (TBA)	ND		10000	10300		ug/L		103	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		1000	905		ug/L		90	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		1000	878		ug/L		88	70 - 130
Isopropyl Ether (DIPE)	ND		1000	1130		ug/L		113	64 - 138
Ethanol	ND		40000	37700		ug/L		94	54 - 150
Tert-amyl-methyl ether (TAME)	ND		1000	937		ug/L		94	68 - 133
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
Dibromofluoromethane (Surr)	108		76 - 132						
4-Bromofluorobenzene (Surr)	91		80 - 120						
Toluene-d8 (Surr)	99		80 - 128						

Lab Sample ID: 720-72688-1 MSD

Matrix: Water

Analysis Batch: 335871

Client Sample ID: S-13

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	200		1000	1200		ug/L		100	66 - 130	2	20
Ethylbenzene	1300	F1	1000	1970		ug/L		72	70 - 130	2	20
m,p-Xylene	3000		1000	3920		ug/L		87	70 - 133	1	25
o-Xylene	340		1000	1330		ug/L		99	70 - 133	4	20
Toluene	370		1000	1280		ug/L		91	70 - 130	4	20
tert-Butyl alcohol (TBA)	ND		10000	9980		ug/L		100	70 - 130	3	25
Methyl-t-Butyl Ether (MTBE)	ND		1000	942		ug/L		94	70 - 130	4	25
Ethyl-t-butyl ether (ETBE)	ND		1000	931		ug/L		93	70 - 130	6	25
Isopropyl Ether (DIPE)	ND		1000	1130		ug/L		113	64 - 138	1	25
Ethanol	ND		40000	40600		ug/L		101	54 - 150	7	30
Tert-amyl-methyl ether (TAME)	ND		1000	992		ug/L		99	68 - 133	6	30
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
Dibromofluoromethane (Surr)	107		76 - 132								
4-Bromofluorobenzene (Surr)	94		80 - 120								
Toluene-d8 (Surr)	101		80 - 128								

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

Lab Sample ID: MB 440-335872/8

Matrix: Water

Analysis Batch: 335872

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			06/10/16 21:30	1

TestAmerica Pleasanton

QC Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

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

Lab Sample ID: MB 440-335872/8
Matrix: Water
Analysis Batch: 335872

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	104		76 - 132		06/10/16 21:30	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/10/16 21:30	1
Toluene-d8 (Surr)	105		80 - 128		06/10/16 21:30	1

Lab Sample ID: LCS 440-335872/6
Matrix: Water
Analysis Batch: 335872

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	99		76 - 132
4-Bromofluorobenzene (Surr)	93		80 - 120
Toluene-d8 (Surr)	105		80 - 128

Lab Sample ID: 720-72688-1 MS
Matrix: Water
Analysis Batch: 335872

Client Sample ID: S-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	108		76 - 132
4-Bromofluorobenzene (Surr)	91		80 - 120
Toluene-d8 (Surr)	99		80 - 128

Lab Sample ID: 720-72688-1 MSD
Matrix: Water
Analysis Batch: 335872

Client Sample ID: S-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	107		76 - 132
4-Bromofluorobenzene (Surr)	94		80 - 120
Toluene-d8 (Surr)	101		80 - 128

TestAmerica Pleasanton

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

GC/MS VOA

Analysis Batch: 335871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-72688-1	S-13	Total/NA	Water	8260B	
720-72688-1 MS	S-13	Total/NA	Water	8260B	
720-72688-1 MSD	S-13	Total/NA	Water	8260B	
720-72688-2	S-14	Total/NA	Water	8260B	
LCS 440-335871/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-335871/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 335872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-72688-1	S-13	Total/NA	Water	8260B/CA_LUFT MS	
720-72688-1 MS	S-13	Total/NA	Water	8260B/CA_LUFT MS	
720-72688-1 MSD	S-13	Total/NA	Water	8260B/CA_LUFT MS	
720-72688-2	S-14	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-335872/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-335872/8	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

Client Sample ID: S-13

Date Collected: 06/03/16 11:45

Date Received: 06/06/16 17:30

Lab Sample ID: 720-72688-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	335871	06/10/16 21:58	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		40	335872	06/10/16 21:58	AA	TAL IRV

Client Sample ID: S-14

Date Collected: 06/03/16 11:35

Date Received: 06/06/16 17:30

Lab Sample ID: 720-72688-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	335871	06/11/16 00:45	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	335872	06/11/16 00:45	AA	TAL IRV

Laboratory References:

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

Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

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	01-31-18

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	01-31-17 *
California	State Program	9	CA ELAP 2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-17
Hawaii	State Program	9	N/A	01-29-17
Kansas	NELAP Secondary AB	7	E-10420	07-31-16
Nevada	State Program	9	CA015312016-2	07-31-16
New Mexico	State Program	6	N/A	01-29-17
Northern Mariana Islands	State Program	9	MP0002	01-29-17
Oregon	NELAP	10	4028	01-29-17
USDA	Federal		P330-09-00080	07-08-18
Washington	State Program	10	C900	09-03-16

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

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



Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Shell- 4411 Foothill Blvd., Oakland

TestAmerica Job ID: 720-72688-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-72688-1	S-13	Water	06/03/16 11:45	06/06/16 17:30
720-72688-2	S-14	Water	06/03/16 11:35	06/06/16 17:30

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720-72688

NR 6194

LAB (LOCATION)

ACUTE ()
 PAUCIENCE ()
 EST/AMERICA ()
 Other ()

Lab Vendor # 1364569 (Case/Analytical)

Please Check Appropriate Box:

BOM FOG PIPELINE RETAIL

CHEMICALS CONSULTANT TUBES

BIOPROBATION OTHER

Blaine Tech Services, Inc.

1690 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Person or Firm Name)

Bar Gabble

Telephone 310-886-4465 Ext 103

FAX 310-637-5602

TURN-ROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY) DAYS DAYS DAYS HOURS

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT °C Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

Run TPH-D w/ Silica Gel Clean Up

Email Invoice to USAPImaging@aecom.com

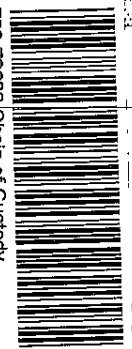
FIELD NOTES:

TEMPERATURE ON RECEIPT

4.1°C

Container PID Readings of Laboratory Notes

720-72688 Chain of Custody



720-72688 Chain of Custody

Requested by (Signature)

Requested by (Signature)

Requested by (Signature)

Requested by (Signature)

Requested by (Signature)

Requested by (Signature)

Shell Oil Products US Chain Of Custody Record



Print Bill To Contact Name: Sara Heikkila

PO # _____

PLANET SITE OR PROJECT ID _____

DATE 6/3/16

GSAP Project ID _____

USP-000256 USRY00885

PAGE 1 of 1

4411 Foothill Blvd., Oakland

CA

PHONE NO 510-893-3600

STATE CA

EMAIL Casey.Huff@aecom.com

LAB USE ONLY

10059562

Casey Huff, AECOM, Oakland, CA

SAFETY CONTACT (Firm)

310-886-4465 Ext 103

Requested Analysis

UNIT COST _____

NON-UNIT COST _____

TPH-GRO, Purgeable (8260B)	TPH-DRO, Extractable (8015M)	BTEX	6 OXYS (8260B)
X	X	X	X
X	X	X	X
X	X	X	X

LAB USE ONLY	DATE	TIME
Requested by (Signature)	6-3-16	1400
Requested by (Signature)	6-3-16	1730
Requested by (Signature)	6/6/16	1330

(Sample Custodian)

6/6/16 1730

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Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 720-72688-1

Login Number: 72688
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 (excluding tests with immediate HTs)	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 720-72688-1

Login Number: 72688
List Number: 2
Creator: Salas, Margarita

List Source: TestAmerica Irvine
List Creation: 06/08/16 12:29 PM

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?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

