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ARCADIS U.S., Inc.
100 Montgomery Street, Suite 300
San Francisco, California 94105
Tel 415.374.2744
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Re: First Quarter 2011 Monitoring Report
Former BP Station #11132
3201 35th Avenue
Oakland, California
ACEH Case #RO0000014

ENVIRONMENTAL

"I declare that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Date:
04/29/2011

Submitted by:
ARCADIS U.S., Inc.

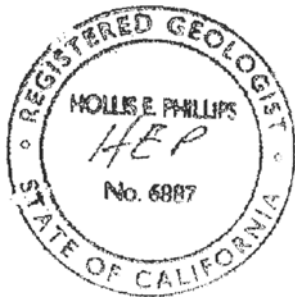
Contact:
Hollis E. Phillips



Phone:
415.374.2744 ext 13

Hollis E. Phillips, PG
Project Manager

Email:
Hollis.phillips@arcadis-us.com



Our ref:
GP09BPNA.C112

April 29, 2011

Project No. 09-88-655

ARCADIS-US, INC.
100 Montgomery Street, Ste. 300
San Francisco, CA 94104


Attn.: Ms. Hollis Phillips, PG

Re: First Quarter 2011 Monitoring Report, Former BP Service Station #11132, 3201 35th
Avenue, Oakland, Alameda County, California; ACEH Case #RO0000014

Dear Ms. Phillips:

Attached is the First Quarter 2011 Monitoring Report for Former BP Service Station #11132 located at 3201 35th Avenue, Oakland, California. Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,
BROADBENT & ASSOCIATES, INC.



Jason Duda
Project Scientist



Thomas A. Venus, P.E.
Senior Engineer



Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health (submitted via ACEH ftp site)
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, California 95818
Electronic copy uploaded to GeoTracker

**FIRST QUARTER 2011 MONITORING REPORT
FORMER BP SERVICE STATION #11132, OAKLAND, CALIFORNIA**

Broadbent & Associates, Inc. (BAI) is pleased to present this *First Quarter 2011 Monitoring Report* on behalf of ARCADIS-US, Inc. and Atlantic Richfield Company (a BP affiliated company) for Former BP Service Station #11132 located in Oakland, Alameda County, California. Monitoring activities at the site were performed in accordance with the reporting requirements issued by the Alameda County Environmental Health Services Agency (ACEH). Details of work performed, discussion of results, and recommendations are provided below.

Facility Name / Address:	<u>Former BP Service Station #11132 / 3201 35th Avenue, Oakland</u>
Client Project Manager / Title:	<u>Ms. Hollis Phillips, PG</u>
BAI Contact:	<u>Jason Duda, (530) 566-1400</u>
BAI Project No.:	<u>09-88-655</u>
Primary Regulatory Agency / ID No.:	<u>ACEH, Case #RO0000014</u>
Current phase of project:	<u>Monitoring</u>
List of Acronyms / Abbreviations:	<u>See end of report text for list of acronyms/abbreviations used in report.</u>

WORK PERFORMED THIS QUARTER (First Quarter 2011):

1. Submitted *Fourth Quarter 2010 Status Report*.
2. Conducted groundwater monitoring/sampling for First Quarter 2011 on March 15, 2011.

WORK SCHEDULED FOR NEXT QUARTER (Second Quarter 2011):

1. Submit *First Quarter 2011 Monitoring Report* (contained herein).
2. No environmental work is scheduled for Second Quarter 2011.

ADDITIONAL WORK RECOMMENDED FOR NEXT QUARTER (Second Quarter 2011)

1. None.

GROUNDWATER MONITORING PLAN SUMMARY:

Groundwater level gauging:	<u>MW-1 through MW-10, RW-1</u>	(Semi-Annually: 1Q & 3Q)
Groundwater sample collection:	<u>MW-1, MW-2, MW-5, MW-8, MW-9, MW-10, and RW-1</u>	(Semi-Annually: 1Q & 3Q)
	<u>MW-3, MW-4, MW-6, and MW-7</u>	(Annually: 1Q)
Biodegradation indicator parameter monitoring:	<u>ORP, pH</u>	(Semi-Annually: 1Q & 3Q)

QUARTERLY RESULTS SUMMARY:

LNAPL

LNAPL observed this quarter:	<u>Yes MW-10</u>	(yes/no)
LNAPL recovered this quarter:	<u>None</u>	(gal)
Cumulative LNAPL recovered:	<u>234.3 (FP/water mixture)</u>	(gal)

Groundwater Elevation and Gradient:

Depth to groundwater:	<u>10.08 MW-6 to 16.47 MW-4</u>	(ft below TOC)
Gradient direction:	<u>Southeast</u>	(compass direction)
Gradient magnitude:	<u>0.01</u>	(ft/ft)
Average change in elevation:	<u>6.62</u>	(ft since last measurement)

Laboratory Analytical Data

Summary: GRO was detected in MW-1, MW-2, MW-5, MW-8, MW-9 and RW-1. Benzene was detected in MW-2, MW-5, MW-8, MW-9 and RW-1. Toluene was detected in MW-2 and MW-5. Ethylbenzene was detected in MW-1, MW-2, MW-5, MW-8, MW-9 and RW-1. Total Xylenes were detected in MW-1, MW-2, MW-5, MW-8, MW-9 and RW-1. MTBE was detected in MW-1, MW-2, MW-4, MW-5, MW-7 and RW-1. TBA was detected in MW-4 and MW-7. TAME was

detected in MW-7. Other petroleum hydrocarbon constituents were below laboratory reporting limits.

ACTIVITIES CONDUCTED & RESULTS:

First Quarter 2011 groundwater monitoring was conducted on March 15, 2011 by BAI personnel in accordance with the monitoring plan summarized above. No irregularities were noted during water level gauging. Light, Non-Aqueous Phase Liquid (LNAPL, or Free Product) was noted to be present in well MW-10 during this event (<0.01 ft). Depth to water measurements ranged from 10.08 ft at MW-6 to 16.47 ft at MW-4. Resulting groundwater surface elevations ranged from 153.22 ft at MW-7 to 155.40 ft at MW-3. Groundwater elevations are summarized in Table 1. Water level elevations yielded a potentiometric groundwater flow direction and horizontal gradient to the southeast at approximately 0.01 ft/ft. Field methods used during groundwater monitoring are provided in Appendix A. Field data sheets are included in Appendix B. A Site Location Map is presented as Drawing 1. Potentiometric groundwater elevation contours are presented in Drawing 2.

Groundwater samples were collected on March 15, 2011, consistent with the current monitoring schedule. No irregularities were reported during sampling with the exception that MW-10 was not sampled due to the presence of LNAPL. Samples were submitted under chain-of-custody protocol to TestAmerica Laboratories, Inc. (Pleasanton, California) for analysis of Gasoline-Range Organics (GRO, C6-C12) by EPA Method 8015M; for Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), Tert-Amyl Methyl Ether (TAME), Di-Isopropyl Ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Tert-Butyl Alcohol (TBA) and Ethanol by EPA Method 8260. There were no significant irregularities reported by the laboratory. The laboratory analytical report, including chain-of-custody documentation, is provided in Appendix C.

Hydrocarbons in the GRO range were detected above the laboratory reporting limit in six wells sampled at concentrations up to 63,000 micrograms per liter ($\mu\text{g/L}$, parts per billion, ppb) in well MW-2. Benzene was detected above the laboratory reporting limit in five wells sampled at concentrations up to 12,000 $\mu\text{g/L}$ in well MW-2. Toluene was detected above the laboratory reporting limit in three wells sampled at concentrations up to 2,900 $\mu\text{g/L}$ in well MW-2. Ethylbenzene was detected above the laboratory reporting limit in six of the wells sampled at concentrations up to 4,100 $\mu\text{g/L}$ in well MW-2. Total Xylenes was detected above the laboratory reporting limit in six wells sampled at concentrations up to 15,000 $\mu\text{g/L}$ in well MW-2. MTBE was detected above the laboratory reporting limit in six wells sampled at concentrations up to 990 $\mu\text{g/L}$ in well MW-7. TAME was detected above the laboratory reporting limit in one of the wells sampled at a concentration of 17 $\mu\text{g/L}$ in well MW-7. 1,2-DCA was detected above the laboratory reporting limit in one of the wells sampled at a concentration of 0.81 $\mu\text{g/L}$ in well MW-7. TBA was detected above the laboratory reporting limit in two wells sampled at concentrations up to 130 $\mu\text{g/L}$ in well MW-7. The remaining analytes were not detected above their laboratory reporting limits in the wells sampled this last monitoring event. LNAPL was observed to be present in well MW-10. BAI personnel bailed MW-10 and reported the LNAPL thickness to be approximately 2 millimeters thick.

Groundwater monitoring laboratory analytical results are summarized in Table 1 and Table 2. The results of the laboratory analysis of the inorganic compounds can be found in the laboratory analytical report in Appendix C. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 2. Groundwater monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation receipts are provided in Appendix D.

DISCUSSION:

Groundwater levels were between historic minimum and maximum elevations during First Quarter 2011. Groundwater elevations yielded a potentiometric groundwater flow direction and horizontal gradient to the southeast at approximately 0.01 ft/ft, within the variable range of historic flow direction and gradient data presented in Table 3.

This event's detected analytical concentrations were within the historic minimum and maximum ranges recorded for each well, with the following exceptions: GRO reached historic minimum in well MW-1 with a concentration of 4,500 µg/L; Benzene reached historic minimum in well MW-1 with a concentration of non-detect; Ethylbenzene reached historic minimum in well MW-1 with a concentration of 56 µg/L; Total Xylenes reached historic minimum in wells MW-1 and MW-8 with concentrations of 30 µg/L and 3,000 µg/L respectively; MTBE reached historic maximum in well MW-7 with a concentration of 990 µg/L. Recent and historic laboratory analytical results are summarized in Table 1 and Table 2.

RECOMMENDATIONS:

Based on the site concentration trends observed in the wells associated with the Site, it is recommended to resume the current scheduling event. The next semi-annual monitoring and sampling event is scheduled to be conducted during the Third Quarter of 2011.

LIMITATIONS:

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by TestAmerica Laboratories, Inc. (Pleasanton, California), and our understanding of ACEH requirements. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of ARCADIS-US, Inc. and Atlantic Richfield Company (a BP affiliated company). It is possible that variations in soil or groundwater conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

ATTACHMENTS:

- Drawing 1: Site Location Map
- Drawing 2: Groundwater Elevation Contours and Analytical Summary Map March 15, 2011

- Table 1: Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
- Table 2: Summary of Fuel Additives Analytical Data
- Table 3: Historical Groundwater Flow Direction and Gradient
- Table 4: Bio-Degradation Parameters

- Appendix A: Field Methods
- Appendix B: Field Data Sheets
- Appendix C: Laboratory Report and Chain-of-Custody Documentation
- Appendix D: GeoTracker Upload Confirmation Receipts

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

ACEH:	Alameda County Environmental Health	ft/ft:	feet per foot
BAI:	Broadbent & Associates, Inc.	gal:	Gallons
BTEX:	Benzene, Toluene, Ethylbenzene, Total Xylenes	GRO:	Gasoline-Range Organics
1,2-DCA:	1,2-Dichloroethane	LNAPL:	Light Non-Aqueous Phase Liquid
DIPE:	Di-Isopropyl Ether	MTBE:	Methyl Tertiary Butyl Ether
DO:	Dissolved Oxygen	NO ₃ :	Nitrate as Nitrogen
DRO:	Diesel-Range Organics	ppb:	parts per billion
EDB:	1,2-Dibromomethane	SO ₄ :	Sulfate
Eh:	Oxidation Reduction Potential	TAME:	Tert-Amyl Methyl Ether
EPA:	Environmental Protection Agency	TBA:	Tertiary Butyl Ether
ETBE:	Ethyl Tertiary Butyl Ether	TOC:	Top of Casing
Fe ²⁺ :	Ferrous Iron	µg/L:	micrograms per liter

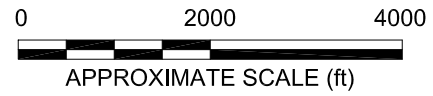
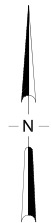
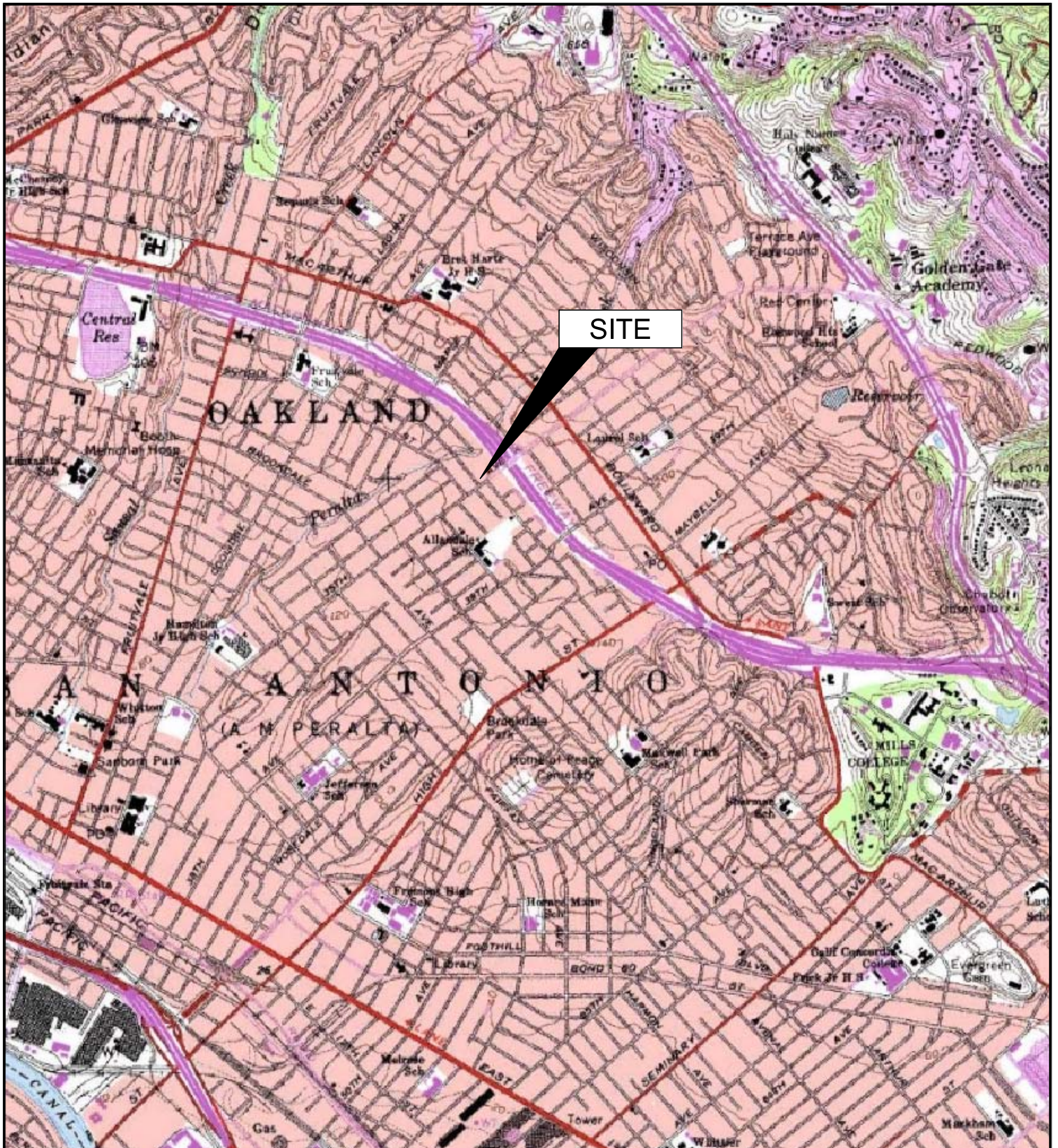
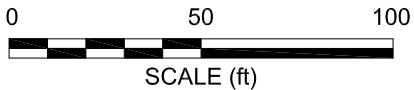
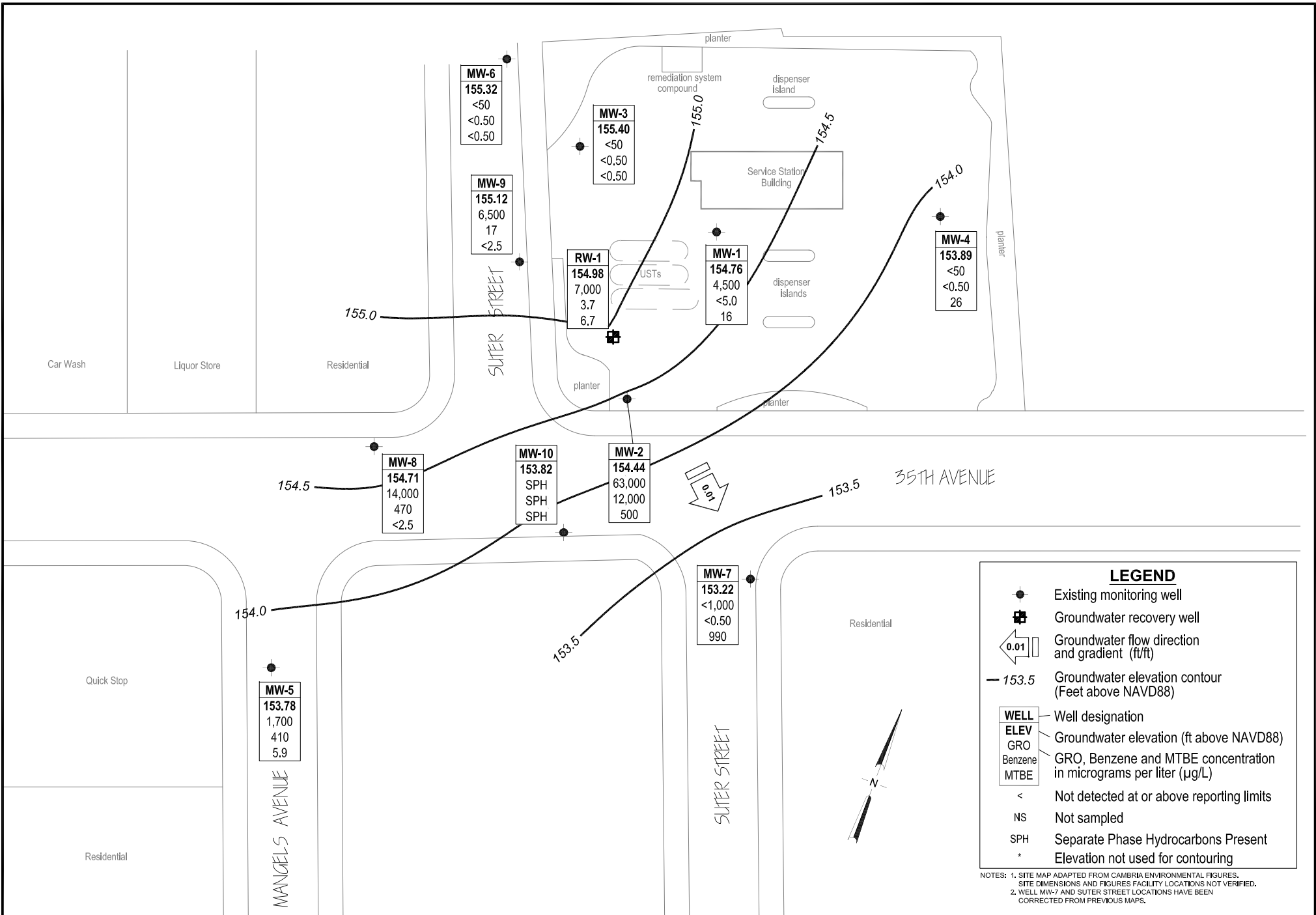


IMAGE SOURCE: USGS



BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave. Suite 212, Chico, California 95926
 Project No.: 09-88-655 Date: 4/19/2011

Former BP Service Station #11132
 3201 35th Avenue
 Oakland, California

Groundwater Elevation Contours
 and Analytical Summary Map
 March 15, 2011

Drawing

2

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-1														
7/9/1990	--	169.75	--	0.22	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	0.58	--	--	--	--	--	--	--	--	--	
3/7/1991	--		20.59	0.00	149.16	--	--	--	--	--	--	--	--	
4/1/1991	--		16.51	0.15	153.09	--	--	--	--	--	--	--	--	
6/27/1991	--		--	0.18	--	--	--	--	--	--	--	--	--	
9/27/1991	--		--	0.27	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	0.28	--	--	--	--	--	--	--	--	--	
7/3/1992	--		22.30	0.27	147.18	--	--	--	--	--	--	--	--	
10/5/1992	--		23.98	0.24	145.53	--	--	--	--	--	--	--	--	
1/13/1993	--		17.03	0.24	152.48	--	--	--	--	--	--	--	--	
4/23/1993	--		18.10	0.42	151.23	--	--	--	--	--	--	--	--	
7/12/1993	--		22.02	0.49	147.24	--	--	--	--	--	--	--	--	
10/21/1993	--		25.12	1.09	143.54	--	--	--	--	--	--	--	--	
1/21/1994	--		23.02	0.76	145.97	--	--	--	--	--	--	--	--	
4/20/1994	--		24.54	1.80	143.41	--	--	--	--	--	--	--	--	
8/1/1994	--		24.11	0.35	145.29	--	--	--	--	--	--	--	--	
12/23/1994	--		18.19	0.00	151.56	--	--	--	--	--	--	--	--	
1/26/1995	--		16.25	1.10	152.40	--	--	--	--	--	--	--	--	
2/16/1995	--		--	1.40	--	--	--	--	--	--	--	--	--	
6/8/1995	--		22.92	1.25	145.63	--	--	--	--	--	--	--	--	
6/8/1995	--		22.92	1.25	145.63	--	--	--	--	--	--	--	--	
8/22/1995	--		24.45	0.85	144.45	--	--	--	--	--	--	--	--	
10/27/1995	--		25.41	0.00	143.65	--	--	--	--	--	--	--	--	
10/30/95-12/23/95	--		--	--	--	--	--	--	--	--	--	--	--	
12/23/1995	--		--	0.69	--	--	--	--	--	--	--	--	--	
1/25/1996	--		18.20	1.40	150.15	--	--	--	--	--	--	--	--	
1/25/1996	--		18.20	1.40	150.15	--	--	--	--	--	--	--	--	
4/19/1996	--		19.06	1.22	149.47	--	--	--	--	--	--	--	--	
7/23/1996	--		22.98	0.89	145.88	--	--	--	--	--	--	--	--	
11/11/1996	--		23.99	0.89	144.78	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-1 Cont.														
1/21/1997	--	169.75	16.80	0.90	152.05	--	--	--	--	--	--	--	--	
4/29/1997	--		21.90	0.85	147.00	--	--	--	--	--	--	--	--	
4/30/1997	--		--	--	--	92,000	3,500	8,100	4,400	23,800	6,900	--	--	c
4/30/1997	--		--	--	--	100,000	3,600	8,000	4,000	21,300	7,700	5.2	--	
8/21/1997	--		23.40	0.00	146.35	120,000	3,200	8,100	3,800	19,600	5,200	--	--	c
8/21/1997	--		23.40	0.00	146.35	140,000	3,000	8,500	3,900	22,100	5,700	5.3	--	
11/2/97-12/9/97	--		--	0.87	--	--	--	--	--	--	--	--	--	
11/5/1997	--		23.70	0.00	145.51	88,000	7,300	4,800	3,600	16,900	8,200	--	--	c
11/5/1997	--		23.70	0.00	145.51	68,000	6,200	4,400	3,300	14,300	8,000	4.7	--	
2/3/1998	--		13.63	0.32	155.80	--	--	--	--	--	--	--	--	
2/4/1998	--		--	--	--	160,000	2,300	8,400	5,000	29,400	<10000	--	--	c
2/4/1998	--		--	--	--	190,000	2,200	10,000	5,600	32,000	<10000	5.3	--	
5/28/1998	--		18.03	0.17	151.55	87,000	980	3,900	3,600	19,000	2,900	3.8	--	
12/30/1998	--		19.50	0.08	150.17	70,000	530	3,200	2,900	16,000	3,600	--	--	
2/2/1999	--		18.93	0.03	150.79	79,000	480	3,100	3,500	21,000	3,500	--	--	
5/10/1999	--		18.28	0.03	151.44	110,000	160	1,900	3,700	24,000	3,000	--	--	
8/24/1999	--		20.13	0.06	149.56	110,000	850	1,300	1,900	19,000	<50	--	--	
11/3/1999	--		22.27	0.36	147.12	65,000	6,300	1,100	3,300	9,500	8,900	--	--	
3/1/2000	--		14.79	0.23	154.73	--	--	--	--	--	--	--	--	h
4/21/2000	--		18.10	0.33	151.32	61,000	330	780	2,700	17,000	1,300	--	--	
7/31/2000	--		21.60	0.53	147.62	1,500,000	340	2,100	24,000	120,000	2,700	--	--	
11/20/2000	--		21.69	0.37	147.69	1,700,000	1,800	2,300	19,000	93,000	3,900	--	--	
2/18/2001	--		16.70	0.13	152.92	--	--	--	--	--	--	--	--	
2/26/2001	--		14.38	0.15	155.22	100,000	658	466	4,210	15,000	1,890	--	--	
6/7/2001	--		20.78	0.00	148.97	70,000	705	440	3,870	12,200	2,720	--	--	
9/5/2001	--		23.36	0.35	146.04	--	--	--	--	--	--	--	--	j
11/30/2001	--		20.85	0.41	148.49	--	--	--	--	--	--	--	--	k
12/6/2001	--		18.72	0.27	150.76	39,000	3,500	237	2,150	4,500	5,400	--	--	
2/20/2002	--		17.43	0.15	152.17	52,000	465	271	1,600	11,400	106	--	--	
6/20/2002	--		21.18	0.34	148.23	--	--	--	--	--	--	--	--	j

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-1 Cont.														
9/11/2002	--	169.75	22.86	0.40	146.49	--	--	--	--	--	--	--	--	j
11/12/2002	--		22.65	0.37	146.73	--	--	--	--	--	--	--	--	j
1/29/2003	--		18.15	0.30	151.30	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		18.49	0.20	151.06	--	--	--	--	--	--	--	--	j
6/24/2003	--		21.44	0.35	147.96	--	--	--	--	--	--	--	--	o
7/28/2003	--		22.72	0.35	146.68	--	--	--	--	--	--	--	--	j
8/12/2003	--		22.64	0.23	146.88	--	--	--	--	--	--	--	--	o
9/12/2003	--		20.70	0.24	148.81	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	0.23	--	--	--	--	--	--	--	--	--	
11/18/2003	NP		21.70	0.25	148.25	--	--	--	--	--	--	--	--	
12/31/2003	--		--	0.15	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	0.15	--	--	--	--	--	--	--	--	--	
02/23/2004	NP		16.34	0.09	153.48	--	--	--	--	--	--	--	--	
3/18/2004	--		--	0.09	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	0.24	--	--	--	--	--	--	--	--	--	
05/04/2004	NP		21.28	0.16	148.60	--	--	--	--	--	--	--	--	
6/2/2004	--		--	0.08	--	--	--	--	--	--	--	--	--	
7/2/2004	--		--	0.28	--	--	--	--	--	--	--	--	--	
08/04/2004	--		22.54	0.10	147.29	--	--	--	--	--	--	--	--	
09/22/2004	NP		22.76	0.20	147.15	--	--	--	--	--	--	--	--	
10/26/2004	--		--	0.12	--	--	--	--	--	--	--	--	--	
11/10/2004	--		20.19	0.14	149.67	--	--	--	--	--	--	--	--	
12/27/2004	--		--	0.08	--	--	--	--	--	--	--	--	--	
01/13/2005	--		14.58	0.03	155.19	--	--	--	--	--	--	--	--	
02/15/2005	--		16.13	0.04	153.65	--	--	--	--	--	--	--	--	
03/07/2005	--		13.31	0.01	156.45	--	--	--	--	--	--	--	--	
4/29/2005	--		--	0.01	--	--	--	--	--	--	--	--	--	
05/16/2005	--		15.74	0.02	154.03	--	--	--	--	--	--	--	--	j
6/21/2005	--		--	0.01	--	--	--	--	--	--	--	--	--	
7/7/2005	--		--	0.18	--	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-1 Cont.														
08/17/2005	--	169.75	21.15	0.08	148.66	--	--	--	--	--	--	--	--	j
9/6/2005	--		--	0.02	--	--	--	--	--	--	--	--	--	
10/4/2005	--		--	0.12	--	--	--	--	--	--	--	--	--	
11/18/2005	--		20.15	0.00	149.60	--	--	--	--	--	--	--	--	j
12/30/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
1/24/2006	--		--	--	--	--	--	--	--	--	--	--	--	
02/07/2006	--		15.19	0.01	154.57	--	--	--	--	--	--	--	--	j
3/30/2006	--		--	--	--	--	--	--	--	--	--	--	--	
5/19/2006	P		17.42	0.00	152.33	44,000	73	510	3,300	5,300	86	--	6.9	u, t
8/23/2006	--		22.01	0.14	147.74	--	--	--	--	--	--	--	--	b, j
11/15/2006	--		21.98	0.18	147.91	--	--	--	--	--	--	--	--	b, j
2/14/2007	--		17.12	0.17	152.76	--	--	--	--	--	--	--	--	b, j
5/22/2007	--		19.49	0.01	150.26	--	--	--	--	--	--	--	--	b, j
8/15/2007	--		22.24	0.01	147.52	--	--	--	--	--	--	--	--	b, j
11/8/2007	--		21.84	0.01	147.92	--	--	--	--	--	--	--	--	b, j
2/20/2008	--		16.52	0.02	153.25	--	--	--	--	--	--	--	--	b, j
5/7/2008	--		20.91	0.02	148.86	--	--	--	--	--	--	--	--	b, j
8/20/2008	--		22.77	0.02	147.00	--	--	--	--	--	--	--	--	b
11/17/2008	P		22.05	0.00	147.70	27,000	780	30	1,800	1,400	590	--	6.60	w
2/25/2009	--		15.28	0.02	154.49	--	--	--	--	--	--	--	--	b
4/8/2009	--		18.18	0.00	151.57	--	--	--	--	--	--	--	--	
5/28/2009	--		19.62	0.01	150.14	--	--	--	--	--	--	--	--	b
6/16/2009	--		20.94	0.01	148.82	--	--	--	--	--	--	--	--	
8/6/2009	--		22.31	0.01	147.45	--	--	--	--	--	--	--	--	b, j
3/4/2010	P		14.27	Sheen	155.48	14,000	45	<10	610	390	<10	0.54	6.96	
9/2/2010	NP		22.32	0.00	147.43	8,200	10	<5.0	230	140	<5.0	0.52	7.01	
3/15/2011	P		14.99	Sheen	154.76	4,500	<5.0	<5.0	56	30	16	0.85	7.0	t
MW-2														
7/9/1990	--	168.14	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-2 Cont.														
3/7/1991	--	168.14	19.18	0.00	148.96	--	--	--	--	--	--	--	--	
4/1/1991	--		15.21	0.00	152.93	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		20.93	0.00	147.21	--	--	--	--	--	--	--	--	
10/5/1992	--		22.74	0.00	145.40	--	--	--	--	--	--	--	--	
1/13/1993	--		15.55	0.00	152.59	--	--	--	--	--	--	--	--	
4/23/1993	--		16.54	0.00	151.60	--	--	--	--	--	--	--	--	
7/12/1993	--		20.46	0.00	147.68	--	--	--	--	--	--	--	--	
10/21/1993	--		24.91	0.00	143.23	--	--	--	--	--	--	--	--	
1/21/1994	--		21.20	0.00	146.94	--	--	--	--	--	--	--	--	
4/20/1994	--		22.44	0.00	145.70	1,800	140	370	54	290	24	1.7	--	i
8/1/1994	--		22.24	0.00	145.90	--	--	--	--	--	--	--	--	
12/23/1994	--		16.25	0.00	151.89	--	--	--	--	--	--	--	--	
1/26/1995	--		14.55	0.00	153.59	--	--	--	--	--	--	--	--	
6/8/1995	--		21.18	0.00	146.96	--	--	--	--	--	--	--	--	
8/22/1995	--		22.76	0.00	145.38	--	--	--	--	--	--	--	--	
10/27/1995	--		23.61	0.00	144.53	--	--	--	--	--	--	--	--	
1/25/1996	--		15.95	0.00	152.19	--	--	--	--	--	--	--	--	
4/19/1996	--		17.33	0.00	150.81	--	--	--	--	--	--	--	--	
7/23/1996	--		21.25	0.00	146.89	--	--	--	--	--	--	--	--	
11/11/1996	--		22.27	0.00	145.87	--	--	--	--	--	--	--	--	
1/21/1997	--		15.19	0.00	152.95	--	--	--	--	--	--	--	--	
4/29/1997	--		20.22	0.00	147.92	--	--	--	--	--	--	--	--	
4/30/1997	--		--	--	--	130,000	4,600	15,000	6,000	37,000	<5000	5	--	
8/21/1997	--		21.74	0.00	146.40	110,000	6,000	16,000	4,700	28,000	<500	4.6	--	
11/5/1997	--		21.61	0.00	146.53	120,000	7,800	18,000	4,900	28,100	<2500	4.6	--	
2/3/1998	--		11.51	0.00	156.63	75,000	590	1,500	1,800	12,800	<2500	4.5	--	
5/28/1998	--		16.51	0.00	151.63	79,000	3,900	3,100	3,100	18,000	900	4.3	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-2 Cont.														
12/30/1998	--	168.14	17.70	0.00	150.44	95,000	4,700	3,500	3,700	21,000	<250	--	--	
2/2/1999	--		15.46	0.00	152.68	170,000	3,500	1,500	5,200	34,000	<500	--	--	
5/10/1999	--		16.52	0.00	151.62	84,000	3,200	3,200	3,700	20,000	75	--	--	
8/24/1999	--		20.73	0.00	147.41	130,000	9,100	9,200	4,700	27,000	<250	--	--	
11/3/1999	--		20.93	0.00	147.21	120,000	10,000	21,000	4,700	30,200	2,200	--	--	
3/1/2000	--		13.37	0.00	154.77	39,000	1,400	1,500	1,700	8,100	44	--	--	
4/21/2000	--		16.59	0.00	151.55	68,000	3,300	2,500	3,100	20,000	260	--	--	
7/31/2000	--		16.37	0.00	151.77	99,000	5,600	1,400	4,300	22,000	490	--	--	
11/20/2000	--		19.71	0.00	148.43	37,000	5,100	1,500	1,300	4,800	2,800	--	--	
2/18/2001	--		15.29	0.00	152.85	54,000	5,020	3,880	2,850	15,400	1,010	--	--	
6/7/2001	--		19.43	0.00	148.71	110,000	7,240	4,380	4,160	22,100	567	--	--	
9/5/2001	--		22.44	0.00	145.70	69,000	5,750	5,790	2,770	14,200	1,510	--	--	
11/30/2001	--		19.58	0.00	148.56	120,000	7,270	6,540	4,590	23,000	794	--	--	
2/20/2002	--		16.39	0.00	151.75	56,000	2,410	2,270	2,910	14,300	160	--	--	
6/20/2002	--		19.77	0.00	148.37	86,000	7,310	6,490	3,080	14,600	659	--	--	
9/11/2002	--		21.60	0.00	146.54	130,000	7,600	13,000	5,400	30,000	<5000	--	--	
11/12/2002	--		21.34	0.00	146.80	46,000	4,100	4,300	1,900	10,000	1,900	--	--	t
1/29/2003	--		16.80	0.00	151.34	77,000	4,700	2,600	2,800	13,000	820	--	--	n,t
5/22/2003	--		17.15	0.00	150.99	52,000	6,400	2,600	1,800	7,400	1,000	--	--	t
7/28/2003	--		21.47	0.00	146.67	31,000	6,900	5,500	2,200	12,000	1,700	--	--	p
11/18/2003	P		20.50	0.00	147.64	23,000	3,300	800	500	2,000	500	--	6.6	
02/23/2004	P		14.77	0.00	153.37	84,000	14,000	6,200	3,100	14,000	790	--	6.6	t
05/04/2004	P		20.09	0.00	148.05	120,000	15,000	17,000	4,900	24,000	780	--	6.6	t
08/04/2004	P		21.39	0.00	146.75	38,000	9,100	3,300	1,900	5,800	430	--	6.69	t
11/10/2004	P		18.98	0.00	149.16	22,000	4,400	2,000	940	3,600	310	--	7.5	
02/15/2005	P		15.62	0.00	152.52	67,000	11,000	4,200	3,000	11,000	690	--	7.1	t
05/16/2005	P		14.71	0.00	153.43	94,000	11,000	7,600	4,100	17,000	560	--	6.5	
08/17/2005	P		20.00	0.00	148.14	110,000	13,000	8,000	4,300	18,000	480	--	6.6	
11/18/2005	P		20.89	0.00	147.25	37,000	11,000	2,400	1,500	4,600	340	--	6.6	
02/07/2006	P		13.31	0.00	154.83	74,000	8,900	5,800	3,600	14,000	440	--	6.7	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-2 Cont.														
5/19/2006	P	168.14	16.30	0.00	151.84	78,000	11,000	3,700	4,500	14,000	430	--	6.6	t
8/23/2006	P		20.83	0.00	147.31	100,000	12,000	9,100	5,800	25,000	480	--	6.6	
11/15/2006	--		20.80	0.00	147.34	46,000	8,800	3,600	2,300	8,500	400	0.70	6.73	
2/14/2007	P		15.96	Sheen	152.18	100,000	13,000	3,600	6,200	26,000	810	1.43	6.97	t
5/22/2007	P		18.20	0.00	149.94	91,000	15,000	8,700	4,700	20,000	1,000	0.08	6.90	
8/15/2007	P		21.23	Sheen	146.91	14,000	7,300	130	280	600	260	4.24	6.78	
11/8/2007	P		20.32	0.00	147.82	22,000	7,400	420	640	1,700	240	1.21	7.03	
2/20/2008	--		15.20	0.06	152.99	--	--	--	--	--	--	--	--	b, j
5/7/2008	--		19.80	0.04	148.37	--	--	--	--	--	--	--	--	b, j
8/20/2008	--		21.70	0.01	146.45	--	--	--	--	--	--	--	--	b
11/17/2008	P		20.73	0.00	147.41	45,000	8,400	700	1,500	5,600	320	--	6.46	t, w
2/25/2009	P		14.15	0.00	153.99	18,000	5,200	<250	380	1,400	<250	2.11	6.50	
4/8/2009	--		17.00	0.00	151.14	--	--	--	--	--	--	--	--	
5/28/2009	P		18.43	Sheen	149.71	37,000	5,300	1,600	1,400	5,600	510	0.16	6.59	t, x
6/16/2009	--		19.80	0.01	148.35	--	--	--	--	--	--	--	--	
8/6/2009	--		21.17	0.01	146.98	--	--	--	--	--	--	--	--	b, j
3/4/2010	P		13.03	Sheen	155.11	18,000	9,500	270	510	1,400	350	1.28	6.80	
9/2/2010	NP		20.62	0.00	147.52	58,000	11,000	3,600	3,900	16,000	470	0.70	6.90	y
3/15/2011	P		13.70	Sheen	154.44	63,000	12,000	2,900	4,100	15,000	500	0.69	6.8	
MW-3														
7/9/1990	--	167.17	--	--	--	140	5.3	4.6	2	3.8	--	--	--	
12/21/1990	--		--	--	--	0.19	100	6	0.9	27	--	--	--	
3/7/1991	--		17.40	0.00	149.77	0.4	69	22	6.1	57	--	--	--	
4/1/1991	--		13.69	0.00	153.48	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	380	28	26	13	46	--	--	--	
9/27/1991	--		--	--	--	0.07	7.9	--	0.4	1.1	--	--	--	
12/18/1991	--		--	--	--	0.26	34	24	0.8	28	--	--	--	
7/3/1992	--		19.59	0.00	147.58	71	9.4	0.9	5	13	--	--	--	
10/5/1992	--		21.22	0.00	145.95	<50	2.2	<0.5	1.5	2.8	--	--	--	c
10/5/1992	--		21.22	0.00	145.95	67	5.1	1.1	6.1	8.1	--	--	--	

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Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-3 Cont.														
1/13/1993	--	167.17	13.63	0.00	153.54	830	50	34	42	89	--	--	--	i
4/23/1993	--		15.02	0.00	152.15	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	c,i
4/23/1993	--		15.02	0.00	152.15	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		19.16	0.00	148.01	250	12	4.2	12	16	<5.0	--	--	i
10/21/1993	--		21.81	0.00	145.36	65	7.4	1	6.9	4.2	--	--	--	c
10/21/1993	--		21.81	0.00	145.36	52	4.4	1.4	4.7	3.3	<5.0	--	--	i
1/21/1994	--		19.94	0.00	147.23	57	3	3.4	3.6	9	<5.0	--	--	i
4/20/1994	--		20.24	0.00	146.93	600	26	23	33	88	28.7	1.8	--	i
8/1/1994	--		20.74	0.00	146.43	99	6.2	1.1	4.5	5.2	<5.0	1.4	--	i
8/1/1994	--		20.74	0.00	146.43	120	7.7	1.6	5.9	6.7	5.43	--	--	c,i
12/23/1994	--		14.70	0.00	152.47	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	c
12/23/1994	--		14.70	0.00	152.47	<50	<0.5	0.78	<0.5	<0.5	9.8	1.7	--	i
1/26/1995	--		12.89	0.00	154.28	190	16	0.5	35	24	--	6.6	--	d
6/8/1995	--		19.95	0.00	147.22	330	21	4	34	32	--	7	--	
8/22/1995	--		21.41	0.00	145.76	150	14	<0.50	<0.50	1.6	<5.0	6.6	--	d
10/27/1995	--		22.43	0.00	144.74	--	--	--	--	--	--	--	--	
10/30/1995	--		--	--	--	51	2.4	<0.50	<0.50	<1.0	<5.0	6.9	--	
1/25/1996	--		14.03	0.00	153.14	<50	<0.50	<0.50	<0.50	<1.0	5.1	--	--	
4/19/1996	--		15.26	0.00	151.91	460	55	4	33	63	<10	9.4	--	
7/23/1996	--		19.19	0.00	147.98	<50	<0.5	<0.5	<0.5	<0.5	<10	9.2	--	
11/11/1996	--		20.24	0.00	146.93	<250	<2.5	<5.0	<5.0	<5.0	<50	8.4	--	
1/21/1997	--		13.09	0.00	154.08	<50	<0.5	<1.0	<1.0	<1.0	<10	5.4	--	
4/29/1997	--		18.14	0.00	149.03	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	--	
8/21/1997	--		19.64	0.00	147.53	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	--	
11/5/1997	--		19.95	0.00	147.22	<250	<2.5	<5.0	<5.0	<5.0	<50	4.5	--	
2/3/1998	--		10.57	0.00	156.60	<50	<0.50	<1.0	<1.0	<1.0	<10	4.7	--	
5/28/1998	--		14.65	0.00	152.52	330	<2.5	<5.0	<5.0	<5.0	<50	4.2	--	
12/30/1998	--		16.63	0.00	150.54	--	--	--	--	--	--	--	--	
2/2/1999	--		13.12	0.00	154.05	<250	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	
5/10/1999	--		14.21	0.00	152.96	--	--	--	--	--	--	--	--	

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Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-3 Cont.														
8/24/1999	--	167.17	14.36	0.00	152.81	--	--	--	--	--	--	--	--	
11/3/1999	--		19.21	0.00	147.96	--	--	--	--	--	--	--	--	
3/1/2000	--		15.17	0.00	152.00	<50	<0.5	0.57	<0.5	0.62	<0.5	--	--	
4/21/2000	--		14.88	0.00	152.29	--	--	--	--	--	--	--	--	
7/31/2000	--		15.29	0.00	151.88	--	--	--	--	--	--	--	--	
11/20/2000	--		17.31	0.00	149.86	--	--	--	--	--	--	--	--	
2/18/2001	--		12.85	0.00	154.32	160	1.95	1.31	10.2	9.09	1	--	--	
6/7/2001	--		18.00	0.00	149.17	--	--	--	--	--	--	--	--	
9/5/2001	--		20.32	0.00	146.85	--	--	--	--	--	--	--	--	
11/30/2001	--		16.94	0.00	150.23	--	--	--	--	--	--	--	--	
2/20/2002	--		14.84	0.00	152.33	86	<0.5	0.845	6.58	5.75	<0.5	--	--	
6/20/2002	--		18.40	0.00	148.77	--	--	--	--	--	--	--	--	
9/11/2002	--		20.06	0.00	147.11	--	--	--	--	--	--	--	--	
11/12/2002	--		19.84	0.00	147.33	--	--	--	--	--	--	--	--	
1/27/2003	--		14.83	0.00	152.34	850	20	9.7	24	45	0.76	--	--	n
5/22/2003	--		15.60	0.00	151.57	--	--	--	--	--	--	--	--	
7/28/2003	--		20.12	0.00	147.05	--	--	--	--	--	--	--	--	p
11/18/2003	--		19.15	0.00	148.02	--	--	--	--	--	--	--	--	
02/23/2004	--		13.53	0.00	153.64	160	<0.50	1.1	9.6	12	<0.50	--	6.7	
05/04/2004	--		18.61	0.00	148.56	--	--	--	--	--	--	--	--	
08/04/2004	--		19.21	0.00	147.96	--	--	--	--	--	--	--	--	
11/10/2004	--		17.48	0.00	149.69	--	--	--	--	--	--	--	--	
02/15/2005	P		14.31	0.00	152.86	500	7.8	1.8	9.2	9.6	1.7	--	7.5	
05/16/2005	--		13.11	0.00	154.06	--	--	--	--	--	--	--	--	
08/17/2005	--		18.53	0.00	148.64	--	--	--	--	--	--	--	--	
11/18/2005	--		19.34	0.00	147.83	--	--	--	--	--	--	--	--	
02/07/2006	P		11.64	0.00	155.53	65	<0.50	<0.50	1.4	2.3	<0.50	--	7.1	
5/19/2006	--		14.88	0.00	152.29	--	--	--	--	--	--	--	--	
8/23/2006	--		19.43	0.00	147.74	--	--	--	--	--	--	--	--	
11/15/2006	--		19.22	0.00	147.95	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-3 Cont.														
2/14/2007	P	167.17	13.80	0.00	153.37	200	1.1	<0.50	5.9	3.2	3.8	0.68	7.52	
5/22/2007	--		16.80	0.00	150.37	--	--	--	--	--	--	--	--	
8/15/2007	--		19.87	0.00	147.30	--	--	--	--	--	--	--	--	
11/8/2007	--		19.27	0.00	147.90	--	--	--	--	--	--	--	--	
2/20/2008	P		13.58	0.00	153.59	240	1.1	<0.50	0.99	0.79	2.3	2.58	7.06	
5/7/2008	--		18.32	0.00	148.85	--	--	--	--	--	--	--	--	
8/20/2008	--		20.29	0.00	146.88	--	--	--	--	--	--	--	--	
11/17/2008	--		19.35	0.00	147.82	--	--	--	--	--	--	--	--	
2/25/2009	P		11.77	0.00	155.40	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.45	7.09	
5/28/2009	--		17.02	0.00	150.15	--	--	--	--	--	--	--	--	
8/6/2009	--		19.87	0.00	147.30	--	--	--	--	--	--	--	--	
3/4/2010	P		10.79	0.00	156.38	<50	<0.50	<0.50	<0.50	<1.0	<0.50	3.16	7.06	
9/2/2010	--		19.32	0.00	147.85	--	--	--	--	--	--	--	--	
3/15/2011	P		11.77	0.00	155.40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	3.14	7.2	
MW-4														
7/9/1990	--	170.36	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	0.8	--	--	--	
3/7/1991	--		20.72	0.00	149.64	--	2.2	3.8	1.5	2.8	--	--	--	
4/1/1991	--		17.49	0.00	152.87	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	--	6.3	1.8	0.4	1	--	--	--	
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		22.16	0.00	148.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
10/5/1992	--		23.38	0.00	146.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
1/13/1993	--		17.58	0.00	152.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
4/23/1993	--		15.72	0.00	154.64	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		21.74	0.00	148.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
10/21/1993	--		23.84	0.00	146.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
1/21/1994	--		22.42	0.00	147.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
4/20/1994	--		22.66	0.00	147.70	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.2	--	i

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-4 Cont.														
8/1/1994	--	170.36	23.01	0.00	147.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.9	--	i
12/23/1994	--		17.03	0.00	153.33	--	--	--	--	--	--	--	--	
1/26/1995	--		17.42	0.00	152.94	<50	<0.5	<0.5	<0.5	<1	--	7.5	--	
6/8/1995	--		21.55	0.00	148.81	--	--	--	--	--	--	--	--	
8/22/1995	--		23.47	0.00	146.89	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.4	--	d
10/27/1995	--		24.50	0.00	145.86	--	--	--	--	--	--	--	--	
1/25/1996	--		18.74	0.00	151.62	<50	<0.50	<0.50	<0.50	<1.0	58	--	--	
4/19/1996	--		18.63	0.00	151.73	--	--	--	--	--	--	--	--	
7/23/1996	--		22.56	0.00	147.80	--	--	--	--	--	--	--	--	
11/11/1996	--		23.63	0.00	146.73	<50	<1.0	<1.0	<1.0	<1.0	34	8.2	--	
1/21/1997	--		16.59	0.00	153.77	--	--	--	--	--	--	--	--	
4/29/1997	--		21.43	0.00	148.93	<50	<0.5	<1.0	<1.0	<1.0	<10	4.7	--	
8/21/1997	--		22.91	0.00	147.45	--	--	--	--	--	--	--	--	
11/5/1997	--		22.34	0.00	148.02	60	<0.5	<1.0	<1.0	<1.0	76	4.9	--	
2/3/1998	--		12.26	0.00	158.10	--	--	--	--	--	--	--	--	
5/28/1998	--		18.50	0.00	151.86	70	<0.5	<1.0	<1.0	<1.0	160	4.2	--	
12/30/1998	--		19.69	0.00	150.67	--	--	--	--	--	--	--	--	
2/2/1999	--		18.26	0.00	152.10	70	<1.0	<1.0	<1.0	<1.0	130	--	--	
5/10/1999	--		17.86	0.00	152.50	--	--	--	--	--	--	--	--	
8/24/1999	--		17.93	0.00	152.43	--	--	--	--	--	--	--	--	
11/3/1999	--		22.78	0.00	147.58	--	--	--	--	--	--	--	--	
3/1/2000	--		18.04	0.00	152.32	<50	<0.5	0.67	<0.5	0.7	110	--	--	
4/21/2000	--		17.36	0.00	153.00	--	--	--	--	--	--	--	--	
7/31/2000	--		17.83	0.00	152.53	--	--	--	--	--	--	--	--	
11/20/2000	--		18.91	0.00	151.45	--	--	--	--	--	--	--	--	
2/18/2001	--		17.72	0.00	152.64	88	<0.5	<0.5	<0.5	<0.5	97.3	--	--	
6/7/2001	--		20.23	0.00	150.13	--	--	--	--	--	--	--	--	
9/5/2001	--		22.76	0.00	147.60	--	--	--	--	--	--	--	--	
11/30/2001	--		21.30	0.00	149.06	--	--	--	--	--	--	--	--	
2/20/2002	--		19.32	0.00	151.04	76	<0.5	<0.5	<0.5	<1.0	81	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-4 Cont.														
6/20/2002	--	170.36	20.71	0.00	149.65	--	--	--	--	--	--	--	--	
9/11/2002	--		22.22	0.00	148.14	--	--	--	--	--	--	--	--	
11/12/2002	--		22.22	0.00	148.14	--	--	--	--	--	--	--	--	
1/29/2003	--		19.80	0.00	150.56	100	<0.5	<0.5	<0.5	<0.5	66	--	--	n
5/22/2003	--		19.35	0.00	151.01	--	--	--	--	--	--	--	--	
7/28/2003	--		22.18	0.00	148.18	--	--	--	--	--	--	--	--	p
11/18/2003	--		21.65	0.00	148.71	--	--	--	--	--	--	--	--	
02/23/2004	P		17.53	0.00	152.83	75	<0.50	<0.50	<0.50	<0.50	65	--	6.8	
05/04/2004	--		20.62	0.00	149.74	--	--	--	--	--	--	--	--	
08/04/2004	--		21.30	0.00	149.06	--	--	--	--	--	--	--	--	
11/10/2004	--		20.65	0.00	149.71	--	--	--	--	--	--	--	--	
02/15/2005	P		18.91	0.00	151.45	<50	<0.50	<0.50	<0.50	<0.50	62	--	7.6	
05/16/2005	--		17.34	0.00	153.02	--	--	--	--	--	--	--	--	
08/17/2005	--		21.31	0.00	149.05	--	--	--	--	--	--	--	--	
11/18/2005	--		21.67	0.00	148.69	--	--	--	--	--	--	--	--	
02/07/2006	P		16.74	0.00	153.62	100	<0.50	<0.50	1.0	3.0	29	--	6.8	
5/19/2006	--		18.22	0.00	152.14	--	--	--	--	--	--	--	--	
8/23/2006	--		20.95	0.00	149.41	--	--	--	--	--	--	--	--	
11/15/2006	--		22.21	0.00	148.15	--	--	--	--	--	--	--	--	
2/14/2007	P		18.25	0.00	152.11	<50	<0.50	<0.50	<0.50	<0.50	61	0.95	7.34	
5/22/2007	--		20.16	0.00	150.20	--	--	--	--	--	--	--	--	
8/15/2007	--		22.34	0.00	148.02	--	--	--	--	--	--	--	--	
11/8/2007	--		21.86	0.00	148.50	--	--	--	--	--	--	--	--	
2/20/2008	P		17.74	0.00	152.62	<50	<0.50	<0.50	<0.50	<0.50	36	2.13	6.93	
5/7/2008	--		21.38	0.00	148.98	--	--	--	--	--	--	--	--	
8/20/2008	--		22.44	0.00	147.92	--	--	--	--	--	--	--	--	
11/17/2008	--		22.20	0.00	148.16	--	--	--	--	--	--	--	--	
2/25/2009	P		16.81	0.00	153.55	<50	<0.50	<0.50	<0.50	<0.50	26	2.80	6.83	
5/28/2009	--		20.37	0.00	149.99	--	--	--	--	--	--	--	--	
8/6/2009	--		22.46	0.00	147.90	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-4 Cont.														
3/4/2010	P	170.36	17.11	Sheen	153.25	<50	<0.50	<0.50	<0.50	<1.0	34	0.63	6.80	
9/2/2010	--		20.63	0.00	149.73	--	--	--	--	--	--	--	--	
3/15/2011	P		16.47	0.00	153.89	<50	<0.50	<0.50	<0.50	<1.0	26	1.05	6.9	
MW-5														
7/9/1990	--	165.14	--	--	--	280	200	210	46	290	--	--	--	
12/21/1990	--		--	--	--	0.69	300	34	8.4	39	--	--	--	
3/7/1991	--		16.60	0.00	148.54	--	17	0.9	0.7	1.6	--	--	--	
4/1/1991	--		11.99	0.00	153.15	800	250	54	11	60	--	--	--	
6/27/1991	--		--	--	--	330	120	10	12	8	--	--	--	
9/27/1991	--		--	--	--	0.73	230	16	20	22	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		18.65	0.00	146.49	150	36	<0.5	<0.5	1.1	--	--	--	
10/5/1992	--		20.32	0.00	144.82	270	79	4	1.7	2.9	--	--	--	
1/13/1993	--		13.03	0.00	152.11	180	59	6	1.8	7.6	--	--	--	i
4/23/1993	--		13.51	0.00	151.63	8,700	440	96	35	136	--	--	--	i
7/12/1993	--		18.06	0.00	147.08	250	57	2.9	2.1	6	<5.0	--	--	i
10/21/1993	--		20.41	0.00	144.73	210	82	1.5	<0.5	1.4	--	--	--	i
1/21/1994	--		18.86	0.00	146.28	110	36	1.2	<0.5	0.7	<5.0	--	--	i
4/20/1994	--		17.30	0.00	147.84	690	230	4.5	1.6	11	21.2	1.3	--	i
8/1/1994	--		17.53	0.00	147.61	170	44	1.6	0.9	2.7	<5.0	0.9	--	i
12/23/1994	--		11.63	0.00	153.51	630	180	1.9	0.66	1.9	7.81	1.4	--	i
1/26/1995	--		11.25	0.00	153.89	160	68	<0.5	<0.5	22	--	5.9	--	
6/8/1995	--		16.80	0.00	148.34	1,700	560	51	55	170	--	--	--	c
6/8/1995	--		16.80	0.00	148.34	2,000	630	58	61	180	--	6.5	--	
8/22/1995	--		19.02	0.00	146.12	3,700	1,100	18	27	59	<130	7.3	--	d
10/27/1995	--		20.94	0.00	144.20	--	--	--	--	--	--	--	--	
10/30/1995	--		--	--	--	6,500	2,200	55	180	270	<250	7.5	--	
1/25/1996	--		13.30	0.00	151.84	540	37	0.66	<0.50	<1.0	<5.0	--	--	c
1/25/1996	--		13.30	0.00	151.84	590	37	0.7	<0.50	<1.0	<5.0	--	--	
4/19/1996	--		13.63	0.00	151.51	1,500	470	38	49	210	<50	8.1	--	

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Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-5 Cont.														
7/23/1996	--	165.14	17.61	0.00	147.53	140	4.6	<0.5	<0.5	<0.5	<10	8	--	
11/11/1996	--		18.70	0.00	146.44	140	40	<1.0	<1.0	<1.0	<10	7.9	--	
1/21/1997	--		11.63	0.00	153.51	730	300	<5.0	7.8	26	<50	5	--	
4/29/1997	--		16.74	0.00	148.40	340	530	<5.0	<5.0	<5.0	<50	4.8	--	
8/21/1997	--		18.26	0.00	146.88	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	--	
11/5/1997	--		18.84	0.00	146.30	120	13	<1.0	<1.0	<1.0	<10	4.4	--	
2/3/1998	--		9.49	0.00	155.65	<50	<0.50	<1.0	<1.0	<1.0	<10	4.3	--	
5/28/1998	--		13.57	0.00	151.57	4,900	1,500	34	180	311	<10	4.1	--	
12/30/1998	--		14.65	0.00	150.49	--	--	--	--	--	--	--	--	
2/2/1999	--		12.56	0.00	152.58	100	<1.0	<1.0	<1.0	<1.0	9.1	--	--	
5/10/1999	--		13.36	0.00	151.78	--	--	--	--	--	--	--	--	
8/24/1999	--		13.50	0.00	151.64	--	--	--	--	--	--	--	--	
11/3/1999	--		18.48	0.00	146.66	--	--	--	--	--	--	--	--	
3/1/2000	--		9.59	0.00	155.55	<50	<0.5	0.58	<0.5	0.54	2.9	--	--	
4/21/2000	--		13.52	0.00	151.62	--	--	--	--	--	--	--	--	
7/31/2000	--		14.04	0.00	151.10	--	--	--	--	--	--	--	--	
11/20/2000	--		15.89	0.00	149.25	--	--	--	--	--	--	--	--	
2/18/2001	--		11.88	0.00	153.26	560	161	2.38	6.11	13	5.67	--	--	
6/7/2001	--		15.30	0.00	149.84	--	--	--	--	--	--	--	--	
9/5/2001	--		19.32	0.00	145.82	--	--	--	--	--	--	--	--	
11/30/2001	--		17.44	0.00	147.70	--	--	--	--	--	--	--	--	
2/20/2002	--		13.88	0.00	151.26	4,200	940	18.7	98.2	176	55.6	--	--	
6/20/2002	--		16.20	0.00	148.94	--	--	--	--	--	--	--	--	
9/11/2002	--		19.15	0.00	145.99	--	--	--	--	--	--	--	--	
11/12/2002	--		19.01	0.00	146.13	390	55	0.89	3.4	3.5	210	--	--	
1/29/2003	--		16.33	0.00	148.81	7,900	1,400	34	220	350	82	--	--	n
5/22/2003	--		14.35	0.00	150.79	9,900	2,300	91	400	690	<50	--	--	
7/28/2003	--		18.90	0.00	146.24	3,200	690	14	81	100	120	--	--	p
11/18/2003	--		--	--	--	--	--	--	--	--	--	--	--	Well inaccessible e, q
02/23/2004	P		12.21	0.00	152.93	7,500	1,500	100	190	350	100	--	6.7	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-5 Cont.														
05/04/2004	P	165.14	17.12	0.00	148.02	5,900	1,500	57	200	280	42	--	6.6	
08/04/2004	P		19.05	0.00	146.09	<2,500	<25	<25	<25	<25	390	--	6.69	
11/10/2004	P		16.95	0.00	148.19	870	80	<5.0	<5.0	<5.0	530	--	7.5	
02/15/2005	P		12.75	0.00	152.39	1,600	330	8.0	37	67	260	--	7.2	
05/16/2005	P		15.46	0.00	149.68	<500	<5.0	<5.0	<5.0	<5.0	370	--	6.7	
08/17/2005	P		17.00	0.00	148.14	7,000	1,000	17	110	130	51	--	6.6	
11/18/2005	P		18.33	0.00	146.81	1,900	91	<5.0	33	29	340	--	7.3	
02/07/2006	P		10.27	0.00	154.87	2,100	590	9.6	86	110	200	--	6.7	
5/19/2006	P		13.08	0.00	152.06	3,200	720	9.7	150	170	44	--	6.8	
8/23/2006	P		17.02	0.00	148.12	1,400	69	<5.0	20	24	230	--	7.11	
11/15/2006	P		18.30	0.00	146.84	1,100	24	<2.5	10	8.6	490	0.85	6.82	
2/14/2007	P		13.16	0.00	151.98	680	110	<2.5	16	11	420	2.54	7.24	
5/22/2007	P		15.42	0.00	149.72	2,800	660	8.8	74	100	26	1.41	7.03	
8/15/2007	P		18.80	0.00	146.34	2,800	50	<10	26	29	280	3.81	7.14	
11/8/2007	P		18.55	Sheen	146.59	3,800	77	<2.5	46	35	270	1.08	7.23	t
2/20/2008	P		12.21	0.00	152.93	2,500	530	<5.0	75	62	43	2.01	6.84	
5/7/2008	P		16.91	0.00	148.23	6,700	1,800	29	270	360	30	2.45	6.87	t
8/20/2008	P		19.45	0.00	145.69	300	22	<2.0	8.5	5.3	260	5.57	6.86	
11/17/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	P		11.12	0.00	154.02	140	6.4	<0.50	2.4	3.1	68	4.38	6.65	
5/28/2009	P		15.70	0.00	149.44	3,800	790	9.5	140	110	11	0.04	6.82	x
8/6/2009	P		18.84	Sheen	146.30	78	<5.0	<5.0	<5.0	<5.0	190	0.06	7.27	x
3/4/2010	P		10.02	0.00	155.12	1,200	420	5.5	69	58	15	0.66	6.87	
9/2/2010	NP		16.24	0.00	148.90	200	69	1.3	3.2	7.3	13	0.75	6.75	y
3/15/2011	P		11.36	0.00	153.78	1,700	410	7.9	88	80	5.9	0.85	6.8	
MW-6														
7/9/1990	--	165.40	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	0.17	2.6	7	4.9	26	--	--	--	
3/7/1991	--		--	--	--	--	--	--	--	--	--	--	--	e
4/1/1991	--		11.79	0.00	153.61	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-6 Cont.														
6/27/1991	--	165.40	--	--	--	--	--	--	--	--	--	--	--	e
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	e
12/18/1991	--		--	--	--	--	1.3	22	--	2.7	--	--	--	
7/3/1992	--		17.77	0.00	147.63	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
10/5/1992	--		19.46	0.00	145.94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
1/13/1993	--		11.34	0.00	154.06	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
4/23/1993	--		12.92	0.00	152.48	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		17.36	0.00	148.04	<50	<0.5	<0.5	<0.5	0.7	<5.0	--	--	i
10/21/1993	--		19.98	0.00	145.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
1/21/1994	--		18.10	0.00	147.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
4/20/1994	--		18.68	0.00	146.72	<50	<0.5	<0.5	<0.5	<0.5	17.4	2	--	i
8/1/1994	--		18.90	0.00	146.50	<50	<0.5	<0.5	<0.5	<0.5	8.66	1.5	--	i
12/23/1994	--		12.94	0.00	152.46	--	--	--	--	--	--	--	--	
1/26/1995	--		10.46	0.00	154.94	<50	<0.5	<0.5	<0.5	<1	--	7.3	--	
6/8/1995	--		16.84	0.00	148.56	--	--	--	--	--	--	--	--	
8/22/1995	--		19.48	0.00	145.92	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.7	--	d
10/27/1995	--		20.39	0.00	145.01	--	--	--	--	--	--	--	--	
1/25/1996	--		12.24	0.00	153.16	<50	<0.50	<0.50	<0.50	<1.0	9.9	--	--	
4/19/1996	--		13.90	0.00	151.50	--	--	--	--	--	--	--	--	
7/23/1996	--		17.83	0.00	147.57	--	--	--	--	--	--	--	--	
11/11/1996	--		18.90	0.00	146.50	<50	<0.5	<1.0	<1.0	<1.0	<10	7.7	--	
1/21/1997	--		11.97	0.00	153.43	--	--	--	--	--	--	--	--	
4/29/1997	--		17.04	0.00	148.36	<50	<0.5	<1.0	<1.0	<1.0	<10	4.5	--	
8/21/1997	--		18.58	0.00	146.82	--	--	--	--	--	--	--	--	
11/5/1997	--		19.17	0.00	146.23	70	<0.5	<1.0	<1.0	<1.0	85	4.3	--	
2/3/1998	--		9.87	0.00	155.53	--	--	--	--	--	--	--	--	
5/28/1998	--		13.38	0.00	152.02	<50	<0.5	<1.0	<1.0	<1.0	<10	3.7	--	
12/30/1998	--		14.45	0.00	150.95	--	--	--	--	--	--	--	--	
2/2/1999	--		18.29	0.00	147.11	--	--	--	--	--	--	--	--	
5/10/1999	--		17.49	0.00	147.91	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-6 Cont.														
8/24/1999	--	165.40	17.61	0.00	147.79	--	--	--	--	--	--	--	--	
11/3/1999	--		16.26	0.00	149.14	--	--	--	--	--	--	--	--	
3/1/2000	--		17.43	0.00	147.97	--	--	--	--	--	--	--	--	
4/21/2000	--		13.32	0.00	152.08	--	--	--	--	--	--	--	--	
7/31/2000	--		13.46	0.00	151.94	--	--	--	--	--	--	--	--	
11/20/2000	--		14.78	0.00	150.62	--	--	--	--	--	--	--	--	
2/18/2001	--		11.33	0.00	154.07	--	--	--	--	--	--	--	--	
6/7/2001	--		16.36	0.00	149.04	--	--	--	--	--	--	--	--	
9/5/2001	--		18.61	0.00	146.79	--	--	--	--	--	--	--	--	
11/30/2001	--		15.20	0.00	150.20	--	--	--	--	--	--	--	--	
2/20/2002	--		12.74	0.00	152.66	--	--	--	--	--	--	--	--	
6/20/2002	--		16.68	0.00	148.72	--	--	--	--	--	--	--	--	
9/11/2002	--		18.38	0.00	147.02	--	--	--	--	--	--	--	--	
11/12/2002	--		18.78	0.00	146.62	--	--	--	--	--	--	--	--	
1/29/2003	--		14.45	0.00	150.95	--	--	--	--	--	--	--	--	n
5/22/2003	--		14.36	0.00	151.04	--	--	--	--	--	--	--	--	
7/28/2003	--		18.43	0.00	146.97	--	--	--	--	--	--	--	--	p
11/18/2003	--		17.48	0.00	147.92	--	--	--	--	--	--	--	--	
02/23/2004	--		11.54	0.00	153.86	--	--	--	--	--	--	--	--	
05/04/2004	--		16.58	0.00	148.82	--	--	--	--	--	--	--	--	
08/04/2004	--		18.12	0.00	147.28	--	--	--	--	--	--	--	--	
11/10/2004	--		15.75	0.00	149.65	--	--	--	--	--	--	--	--	
02/15/2005	--		12.50	0.00	152.90	--	--	--	--	--	--	--	--	
05/16/2005	P		11.51	0.00	153.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.0	
08/17/2005	--		16.85	0.00	148.55	--	--	--	--	--	--	--	--	
11/18/2005	--		--	--	--	--	--	--	--	--	--	--	--	e
02/07/2006	P		9.93	0.00	155.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.1	
5/19/2006	--		--	--	--	--	--	--	--	--	--	--	--	e
8/23/2006	--		16.35	0.00	149.05	--	--	--	--	--	--	--	--	
11/15/2006	--		17.42	0.00	147.98	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-6 Cont.														
2/14/2007	P	165.40	12.03	0.00	153.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.07	7.73	
5/22/2007	--		15.11	0.00	150.29	--	--	--	--	--	--	--	--	
8/15/2007	--		18.08	0.00	147.32	--	--	--	--	--	--	--	--	
11/8/2007	--		17.79	0.00	147.61	--	--	--	--	--	--	--	--	
2/20/2008	P		11.81	0.00	153.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.29	7.10	
5/7/2008	--		16.75	0.00	148.65	--	--	--	--	--	--	--	--	
8/20/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
11/17/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	P		9.99	0.00	155.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.39	7.09	
5/28/2009	--		--	--	--	--	--	--	--	--	--	--	--	e
8/6/2009	--		18.33	0.00	147.07	--	--	--	--	--	--	--	--	
3/4/2010	P		9.11	0.00	156.29	<50	<0.50	<0.50	<0.50	<1.0	<0.50	0.88	7.01	
9/2/2010	--		17.80	0.00	147.60	--	--	--	--	--	--	--	--	
3/15/2011	P		10.08	0.00	155.32	<50	<0.50	<0.50	<0.50	<1.0	<0.50	1.43	7.1	
MW-7														
7/9/1990	--	167.61	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--		19.04	0.00	148.57	--	--	0.4	0.3	2.4	--	--	--	
4/1/1991	--		15.18	0.00	152.43	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	70	17	4	0.8	2.2	--	--	--	
9/27/1991	--		--	--	--	--	0.4	--	--	0.4	--	--	--	
12/18/1991	--		--	--	--	--	0.7	2.9	0.8	3.3	--	--	--	
7/3/1992	--		20.28	0.00	147.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
10/5/1992	--		21.56	0.00	146.05	<50	<0.5	<0.5	<0.5	1.5	--	--	--	
1/13/1993	--		15.41	0.00	152.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
4/23/1993	--		15.84	0.00	151.77	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		19.84	0.00	147.77	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
10/21/1993	--		21.61	0.00	146.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
1/21/1994	--		20.49	0.00	147.12	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	c
1/21/1994	--		20.49	0.00	147.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i

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Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-7 Cont.														
4/20/1994	--	167.61	20.54	0.00	147.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.5	--	i
8/1/1994	--		20.99	0.00	146.62	<50	0.7	<0.5	<0.5	<0.5	<5.0	1.9	--	i
12/23/1994	--		15.00	0.00	152.61	--	--	--	--	--	--	--	--	
1/26/1995	--		14.69	0.00	152.92	<50	<0.5	<0.5	<0.5	<1	--	7	--	
6/8/1995	--		19.87	0.00	147.74	--	--	--	--	--	--	--	--	
8/22/1995	--		21.49	0.00	146.12	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.4	--	d
10/27/1995	--		22.53	0.00	145.08	--	--	--	--	--	--	--	--	
1/25/1996	--		17.21	0.00	150.40	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	
4/19/1996	--		17.09	0.00	150.52	--	--	--	--	--	--	--	--	
7/23/1996	--		21.02	0.00	146.59	--	--	--	--	--	--	--	--	
11/11/1996	--		22.03	0.00	145.58	<50	<0.5	<1.0	<1.0	<1.0	<10	7.8	--	
1/21/1997	--		15.06	0.00	152.55	--	--	--	--	--	--	--	--	
4/29/1997	--		20.11	0.00	147.50	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	--	
8/21/1997	--		21.59	0.00	146.02	--	--	--	--	--	--	--	--	
11/5/1997	--		20.05	0.00	147.56	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	--	
2/3/1998	--		9.97	0.00	157.64	--	--	--	--	--	--	--	--	
5/28/1998	--		13.52	0.00	154.09	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	--	
12/30/1998	--		18.33	0.00	149.28	--	--	--	--	--	--	--	--	
2/2/1999	--		12.33	0.00	155.28	--	--	--	--	--	--	--	--	
5/10/1999	--		13.52	0.00	154.09	--	--	--	--	--	--	--	--	
8/24/1999	--		14.01	0.00	153.60	--	--	--	--	--	--	--	--	
11/3/1999	--		19.91	0.00	147.70	--	--	--	--	--	--	--	--	
3/1/2000	--		19.89	0.00	147.72	--	--	--	--	--	--	--	--	
4/21/2000	--		17.94	0.00	149.67	--	--	--	--	--	--	--	--	
7/31/2000	--		17.33	0.00	150.28	--	--	--	--	--	--	--	--	
11/20/2000	--		18.41	0.00	149.20	--	--	--	--	--	--	--	--	
2/18/2001	--		15.13	0.00	152.48	--	--	--	--	--	--	--	--	
6/7/2001	--		18.75	0.00	148.86	--	--	--	--	--	--	--	--	
9/5/2001	--		20.48	0.00	147.13	--	--	--	--	--	--	--	--	
11/30/2001	--		20.11	0.00	147.50	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
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Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-7 Cont.														
2/20/2002	--	167.61	18.40	0.00	149.21	--	--	--	--	--	--	--	--	
6/20/2002	--		18.62	0.00	148.99	--	--	--	--	--	--	--	--	
9/11/2002	--		20.05	0.00	147.56	--	--	--	--	--	--	--	--	
11/12/2002	--		21.13	0.00	146.48	--	--	--	--	--	--	--	--	n
1/29/2003	--		19.10	0.00	148.51	--	--	--	--	--	--	--	--	
5/22/2003	--		18.83	0.00	148.78	--	--	--	--	--	--	--	--	
7/28/2003	--		19.88	0.00	147.73	--	--	--	--	--	--	--	--	p
11/18/2003	--	168.08	20.50	0.00	147.58	--	--	--	--	--	--	--	--	
11/18/2003	--		20.50	0.00	147.58	--	--	--	--	--	--	--	--	s
02/23/2004	--		15.92	0.00	152.16	--	--	--	--	--	--	--	--	
05/04/2004	--		18.86	0.00	149.22	--	--	--	--	--	--	--	--	
08/04/2004	--		19.10	0.00	148.98	--	--	--	--	--	--	--	--	
11/10/2004	--		20.25	0.00	147.83	--	--	--	--	--	--	--	--	
02/15/2005	--		16.37	0.00	151.71	--	--	--	--	--	--	--	--	
05/16/2005	--		--	--	--	--	--	--	--	--	--	--	--	e
08/17/2005	--		19.74	0.00	148.34	--	--	--	--	--	--	--	--	
11/18/2005	--		20.82	0.00	147.26	--	--	--	--	--	--	--	--	
02/07/2006	P		14.26	0.00	153.82	<500	<5.0	<5.0	<5.0	<5.0	270	--	7.3	
5/19/2006	--		16.51	0.00	151.57	--	--	--	--	--	--	--	--	
8/23/2006	--		20.30	0.00	147.78	--	--	--	--	--	--	--	--	
11/15/2006	--		20.85	0.00	147.23	--	--	--	--	--	--	--	--	
2/14/2007	P		16.57	0.00	151.51	520	<5.0	<5.0	<5.0	<5.0	740	3.08	7.30	v
5/22/2007	--		18.40	0.00	149.68	--	--	--	--	--	--	--	--	
8/15/2007	--		20.85	0.00	147.23	--	--	--	--	--	--	--	--	
11/8/2007	--		20.41	0.00	147.67	--	--	--	--	--	--	--	--	
2/20/2008	P		15.90	0.00	152.18	<50	<0.50	<0.50	<0.50	<0.50	700	4.34	7.09	
5/7/2008	--		19.41	0.00	148.67	--	--	--	--	--	--	--	--	
8/20/2008	--		21.34	0.00	146.74	--	--	--	--	--	--	--	--	
11/17/2008	--		20.54	0.00	147.54	--	--	--	--	--	--	--	--	
2/25/2009	P		14.89	0.00	153.19	130	<20	<20	<20	<20	540	4.28	6.87	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-7 Cont.														
5/28/2009	--	168.08	18.57	0.00	149.51	--	--	--	--	--	--	--	--	
8/6/2009	--		20.83	0.00	147.25	--	--	--	--	--	--	--	--	
3/4/2010	P		14.02	0.00	154.06	430	<0.50	<0.50	<0.50	<1.0	920	3.30	7.02	
9/2/2010	--		20.43	0.00	147.65	--	--	--	--	--	--	--	--	
3/15/2011	P		14.86	0.00	153.22	<1,000	<0.50	<0.50	<0.50	<1.0	990	4.05	7.0	
MW-8														
3/7/1991	--	165.74	16.72	0.00	149.02	2.7	780	450	64	310	--	--	--	
4/1/1991	--		12.54	0.00	153.20	15,000	3,600	2,600	410	1,900	--	--	--	
6/27/1991	--		--	--	--	12,000	3,400	1,100	240	750	--	--	--	
9/27/1991	--		--	--	--	41	5,700	5,200	1,100	4,300	--	--	--	
12/18/1991	--		--	--	--	3.2	990	150	120	250	--	--	--	
7/3/1992	--		18.78	0.00	146.96	72,000	19,000	32,000	3,000	15,000	--	--	--	
10/5/1992	--		20.48	0.00	145.26	--	--	--	--	--	--	--	--	
1/13/1993	--		12.87	0.00	152.87	--	--	--	--	--	--	--	--	
4/23/1993	--		13.90	0.00	151.84	--	--	--	--	--	--	--	--	t
7/12/1993	--		18.30	0.00	147.44	--	--	--	--	--	--	--	--	t
10/21/1993	--		21.91	0.00	142.88	--	--	--	--	--	--	--	--	
10/2/93-12/9/98	--		--	0.12	--	--	--	--	--	--	--	--	--	
1/21/1994	--		19.12	0.00	146.62	--	--	--	--	--	--	--	--	
4/20/1994	--		19.28	0.00	146.46	26,000	1,700	4,100	960	4,000	632	1.1	--	i
8/1/1994	--		--	--	--	--	--	--	--	--	--	--	--	
12/23/1994	--		13.81	0.00	151.93	--	--	--	--	--	--	--	--	
1/26/1995	--		--	--	--	--	--	--	--	--	--	--	--	
6/8/1995	--		17.82	0.00	147.92	--	--	--	--	--	--	--	--	
8/22/1995	--		19.41	0.00	146.33	--	--	--	--	--	--	--	--	
10/27/1995	--		20.47	0.00	145.27	--	--	--	--	--	--	--	--	
1/25/1996	--		13.35	0.00	152.39	--	--	--	--	--	--	--	--	
4/19/1996	--		14.40	0.00	151.34	--	--	--	--	--	--	--	--	
7/23/1996	--		18.35	0.00	147.39	--	--	--	--	--	--	--	--	
11/11/1996	--		19.41	0.00	146.33	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-8 Cont.														
1/21/1997	--	165.74	12.29	0.00	153.45	--	--	--	--	--	--	--	--	
4/29/1997	--		--	--	--	--	--	--	--	--	--	--	--	e
8/21/1997	--		19.61	0.00	146.13	240,000	1,100	9,300	4,100	31,100	<1000	5.2	--	
11/5/1997	--		19.45	0.00	146.29	57,000	790	2,700	2,300	15,200	<1000	5	--	
2/3/1998	--		9.33	0.00	156.41	--	--	--	--	--	--	--	--	
2/4/1998	--		--	--	--	94,000	570	1,500	2,100	15,200	<2500	5.5	--	
5/28/1998	--		--	--	--	--	--	--	--	--	--	--	--	e
12/30/1998	--		15.48	0.00	150.26	120,000	460	2,300	2,200	15,000	150	--	--	
2/2/1999	--		18.29	0.00	147.45	82,000	450	2,200	3,700	26,000	<500	--	--	
5/10/1999	--		15.62	0.00	150.12	28,000	740	1,800	1,100	5,800	<25	--	--	
8/24/1999	--		18.41	0.00	147.33	75,000	530	1,400	3,300	21,000	150	--	--	
11/3/1999	--		18.71	0.00	147.03	70,000	600	1,300	3,600	20,500	750	--	--	
3/1/2000	--		19.37	0.00	146.37	27,000	1,600	1,200	2,600	6,600	120	--	--	
4/21/2000	--		--	--	--	--	--	--	--	--	--	--	--	e
7/31/2000	--		--	--	--	--	--	--	--	--	--	--	--	e
11/20/2000	--		17.42	0.00	148.32	1,300,000	1,400	1,700	20,000	16,000	5,700	--	--	
2/18/2001	--		--	--	--	--	--	--	--	--	--	--	--	e
6/7/2001	--		--	--	--	--	--	--	--	--	--	--	--	e
9/5/2001	--		21.45	0.04	144.25	--	--	--	--	--	--	--	--	j
11/30/2001	--		18.31	0.00	147.43	--	--	--	--	--	--	--	--	h
12/6/2001	--		--	--	--	--	--	--	--	--	--	--	--	e
2/20/2002	--		14.02	0.00	151.72	20,000	163	114	403	3,810	80.4	--	--	
6/20/2002	--		17.56	0.00	148.18	28,000	466	141	962	5,850	2,520	--	--	
9/11/2002	--		19.45	0.00	146.29	190,000	1,500	670	4,500	23,000	1,200	--	--	
11/12/2002	--		19.15	0.00	146.59	420	6.4	2.9	16	110	31	--	--	t
1/29/2003	--		15.02	0.00	150.72	200,000	810	<500	2,000	11,000	<500	--	--	n
5/22/2003	--		15.07	0.00	150.67	--	--	--	--	--	--	--	--	t
6/24/2003	--		17.95	0.00	147.79	43,000	860	300	2,100	9,600	46	--	--	
7/28/2003	--		19.45	0.00	146.29	62,000	690	230	1,800	15,000	2,100	--	--	
8/12/2003	--		19.40	<0.01	146.34	--	--	--	--	--	--	--	--	o,t

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-8 Cont.														
9/12/2003	--	165.74	19.34	0.00	146.40	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
11/18/2003	P		18.80	<0.01	146.94	8,800	500	37	530	930	1,700	--	--	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
02/23/2004	P		12.82	<0.01	152.92	32,000	840	360	1,000	7,100	110	--	6.6	t
3/18/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
05/04/2004	P		18.87	<0.01	146.87	42,000	570	230	1,700	8,400	2,000	--	7.0	t
6/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
08/04/2004	--		19.37	0.05	146.41	--	--	--	--	--	--	--	--	
09/22/2004	NP		19.60	0.00	146.14	--	--	--	--	--	--	--	--	
11/10/2004	P		16.58	0.00	149.16	11,000	790	61	1,000	830	74	--	7.3	t
02/15/2005	P		12.85	0.00	152.89	38,000	1,300	390	2,300	7,900	<50	--	7.2	
05/16/2005	P		12.22	0.00	153.52	31,000	1,000	360	2,500	7,500	<50	--	6.5	
08/17/2005	P		17.80	0.00	147.94	60,000	540	240	2,500	8,600	<50	--	6.7	
11/18/2005	P		21.02	0.00	144.72	33,000	340	120	1,400	4,900	140	--	6.9	
02/07/2006	P		10.73	0.00	155.01	5,700	94	27	260	820	7.5	--	6.6	
5/19/2006	P		13.89	0.00	151.85	40,000	1,100	320	2,900	6,000	<25	--	6.6	t
8/23/2006	P		18.85	0.00	146.89	21,000	520	150	1,800	6,300	82	--	7.35	
11/15/2006	P		18.75	0.00	146.99	3,300	81	<25	130	430	110	0.81	6.91	
2/14/2007	P		13.45	Sheen	152.29	9,300	320	<25	360	710	82	1.89	7.13	t
5/22/2007	P		15.92	Sheen	149.82	17,000	370	51	760	1,600	11	1.05	6.99	t
8/15/2007	P		19.11	Sheen	146.63	17,000	170	44	1,000	2,700	28	3.93	7.08	
11/8/2007	P		18.46	Sheen	147.28	24,000	150	43	1,100	3,200	27	1.29	7.14	t
2/20/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
5/7/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
8/20/2008	--		19.66	0.01	146.09	--	--	--	--	--	--	--	--	b
11/17/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	P		11.50	Sheen	154.24	3,400	160	11	88	65	35	2.18	6.98	t

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-8 Cont.														
4/8/2009	--	165.74	14.55	0.00	151.19	--	--	--	--	--	--	--	--	
5/28/2009	P		16.12	Sheen	149.62	8,300	410	54	660	800	<2.5	0.06	6.78	t, x
6/16/2009	--		17.63	0.00	148.11	--	--	--	--	--	--	--	--	
8/6/2009	--		--	--	--	--	--	--	--	--	--	--	--	e
3/4/2010	P		10.33	0.00	155.41	11,000	520	110	830	1,600	<5.0	0.82	6.72	
9/2/2010	P		18.52	0.00	147.22	6,900	180	24	280	480	<5.0	0.56	6.75	
3/15/2011	P		11.03	Sheen	154.71	14,000	470	150	1,400	3,000	<2.5	0.90	6.6	
MW-9														
3/7/1991	--	166.20	16.79	0.00	149.41	7.1	220	4	2.4	2,400	--	--	--	
4/1/1991	--		12.89	0.00	153.31	12,000	2,000	2,600	360	1,600	--	--	--	
6/27/1991	--		--	--	--	3,600	520	400	85	310	--	--	--	
9/27/1991	--		--	--	--	3.2	720	150	50	180	--	--	--	
12/18/1991	--		--	--	--	--	2.5	1.1	0.3	5.8	--	--	--	
7/3/1992	--		18.89	0.00	147.31	5,700	17,000	840	230	800	--	--	--	
10/5/1992	--		20.52	0.00	145.68	1,400	440	17	14	100	--	--	--	
1/13/1993	--		12.92	0.00	153.28	11,000	1,200	1,600	330	1,300	--	--	--	c,i
1/13/1993	--		12.92	0.00	153.28	11,000	1,200	1,700	340	1,400	--	--	--	i
4/23/1993	--		14.08	0.00	152.12	24,000	2,800	4,500	730	3,400	--	--	--	i
7/12/1993	--		18.44	0.00	147.76	10,000	1,200	900	310	1,200	--	--	--	c
7/12/1993	--		18.44	0.00	147.76	13,000	1,400	1,100	360	1,400	20.8	--	--	i
10/21/1993	--		21.81	0.00	143.50	--	--	--	--	--	--	--	--	
11/2/93-4/29/97	--		--	0.10	--	--	--	--	--	--	--	--	--	
1/21/1994	--		19.28	0.00	146.92	--	--	--	--	--	--	--	--	
4/20/1994	--		19.72	0.00	146.48	45,000	2,700	6,800	1,200	8,200	740	--	--	c,d
4/20/1994	--		19.72	0.00	146.48	43,000	2,800	6,800	1,300	7,900	768	1.7	--	i
8/1/1994	--		20.18	0.00	146.02	--	--	--	--	--	--	--	--	
12/23/1994	--		14.22	0.00	151.98	--	--	--	--	--	--	--	--	
1/26/1995	--		11.85	0.00	154.35	--	--	--	--	--	--	--	--	
6/8/1995	--		18.33	0.00	147.87	--	--	--	--	--	--	--	--	
8/22/1995	--		19.95	0.00	146.25	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-9 Cont.														
10/27/1995	--	166.20	20.88	0.00	145.32	--	--	--	--	--	--	--	--	
1/25/1996	--		13.84	0.00	152.36	--	--	--	--	--	--	--	--	
4/19/1996	--		--	--	--	--	--	--	--	--	--	--	--	e
7/23/1996	--		18.84	0.00	147.36	--	--	--	--	--	--	--	--	
11/11/1996	--		19.91	0.00	146.29	--	--	--	--	--	--	--	--	
1/21/1997	--		12.93	0.00	153.27	--	--	--	--	--	--	--	--	
4/29/1997	--		18.03	0.10	148.17	--	--	--	--	--	--	--	--	t
4/30/1997	--		--	--	--	78,000	1,900	3,600	3,100	20,600	<5000	5.5	--	
8/21/1997	--		19.56	0.00	146.64	110,000	2,100	3,400	2,300	18,800	<500	5.1	--	
11/5/1997	--		20.59	0.01	145.60	59,000	1,400	1,700	2,200	17,000	<500	4.5	--	
2/3/1998	--		10.56	0.00	155.64	55,000	490	1,200	1,400	10,200	<1000	4.9	--	
5/28/1998	--		14.21	0.00	151.99	53,000	290	830	1,400	10,500	<500	--	--	c
5/28/1998	--		14.21	0.00	151.99	41,000	250	1,200	1,500	11,400	<250	3.8	--	
12/30/1998	--		15.61	0.00	150.59	83,000	860	1,300	2,400	21,000	180	--	--	
2/2/1999	--		12.33	0.00	153.87	75,000	530	960	1,900	17,000	<50	--	--	
5/10/1999	--		15.67	0.00	150.53	22,000	600	1,500	1,100	4,400	72	--	--	
8/24/1999	--		19.10	0.00	147.10	85,000	850	1,300	1,700	20,000	<250	--	--	
11/3/1999	--		19.58	0.00	146.62	72,000	700	780	1,900	19,000	<5.0	--	--	
3/1/2000	--		13.19	0.00	153.01	34,000	78	490	1,100	8,200	63	--	--	
4/21/2000	--		14.29	0.00	151.91	55,000	260	920	1,500	16,000	<5.0	--	--	
7/31/2000	--		15.01	0.00	151.19	1,200,000	1,500	6,300	15,000	120,000	1,600	--	--	
11/20/2000	--		18.23	0.00	147.97	320,000	3,500	19,000	5,000	40,000	3,900	--	--	
2/18/2001	--		13.14	0.00	153.06	32,000	290	417	1,180	10,400	121	--	--	
6/7/2001	--		17.41	0.00	148.79	96,000	421	704	2,330	17,300	223	--	--	
9/5/2001	--		20.56	0.00	145.64	39,000	445	323	1,240	8,940	310	--	--	
11/30/2001	--		17.42	0.00	148.78	60,000	310	586	1,890	14,200	285	--	--	
2/20/2002	--		13.87	0.00	152.33	14,000	64	122	897	2,650	293	--	--	
6/20/2002	--		18.22	0.00	147.98	29,000	307	168	1,100	5,670	208	--	--	
9/11/2002	--		20.27	0.00	145.93	230,000	1,400	680	3,600	23,000	<2500	--	--	
11/12/2002	--		19.40	0.00	146.80	840	5.8	3.6	28	160	21	--	--	t

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Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-9 Cont.														
1/29/2003	--	166.20	14.30	0.10	151.80	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		15.16	0.00	151.04	23,000	260	<50	1,000	2,900	<50	--	--	t
6/24/2003	--		--	--	--	--	--	--	--	--	--	--	--	e
7/28/2003	--		19.55	<0.01	146.65	1,500,000	<500	<500	9,800	79,000	<500	--	--	
8/12/2003	--		19.60	<0.01	146.60	--	--	--	--	--	--	--	--	o,t
9/12/2003	--		19.60	<0.01	146.60	--	--	--	--	--	--	--	--	o,t
11/18/2003	P		18.98	<0.01	147.22	19,000	250	18	690	2,400	45	--	6.8	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
02/23/2004	P		13.91	<0.01	152.29	91,000	<250	440	2,200	13,000	<250	--	6.8	t
3/18/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
05/04/2004	P		18.11	<0.01	148.09	39,000	230	44	1,100	4,200	<25	--	6.9	t
6/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
08/04/2004	--		18.90	0.03	147.32	--	--	--	--	--	--	--	--	
09/22/2004	NP		19.69	0.00	146.51	--	--	--	--	--	--	--	--	
11/10/2004	NP		16.95	0.00	149.25	31,000	300	<50	1,100	3,800	<50	--	7.3	t
02/15/2005	P		12.95	0.00	153.25	19,000	200	<50	720	2,000	<50	--	7.3	t
05/16/2005	P		12.53	0.00	153.67	17,000	99	15	770	2,500	<10	--	6.7	
08/17/2005	P		18.03	0.00	148.17	28,000	160	26	1,000	2,700	<12	--	6.8	
11/18/2005	P		19.04	0.00	147.16	12,000	98	<5.0	410	510	19	--	7.1	
02/07/2006	P		10.95	Sheen	155.25	18,000	110	8.7	770	1,500	<5.0	--	6.9	t
5/19/2006	--		--	--	--	--	--	--	--	--	--	--	--	e
8/23/2006	P		18.91	0.00	147.29	28,000	84	<50	1,600	6,200	<50	--	7.3	
11/15/2006	P		18.60	0.00	147.60	8,200	44	<25	190	370	26	0.92	6.88	
2/14/2007	P		13.30	0.00	152.90	20,000	64	<25	720	2,000	<25	0.87	7.17	t
5/22/2007	P		16.14	Sheen	150.06	16,000	80	<25	460	1,200	<25	0.81	7.08	t
8/15/2007	P		19.31	Sheen	146.89	5,900	27	<2.5	59	170	27	2.57	6.98	
11/8/2007	P		18.70	0.00	147.50	6,100	29	<5.0	98	250	52	1.24	7.47	
2/20/2008	--		12.79	0.03	153.43	--	--	--	--	--	--	--	--	b,j

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-9 Cont.														
5/7/2008	--	166.20	17.68	0.03	148.54	--	--	--	--	--	--	--	--	b, j
8/20/2008	--		19.75	0.01	146.46	--	--	--	--	--	--	--	--	b
11/17/2008	P		18.73	0.00	147.47	10,000	24	<2.5	160	140	33	--	6.64	w
2/25/2009	P		11.23	Sheen	154.97	14,000	60	<10	550	140	<10	2.27	6.69	t
4/8/2009	--		14.21	0.00	151.99	--	--	--	--	--	--	--	--	
5/28/2009	P		16.33	Sheen	149.87	15,000	49	<10	790	1,500	<10	0.07	6.83	t, x
6/16/2009	--		17.82	0.01	148.39	--	--	--	--	--	--	--	--	
8/6/2009	P		19.25	Sheen	146.95	6,800	19	<2.0	120	250	18	0.00	7.26	x
3/4/2010	P		10.32	0.00	155.88	6,000	29	<2.5	<2.5	100	<2.5	0.62	6.84	
9/2/2010	NP		18.72	0.00	147.48	5,700	31	<2.5	160	120	<2.5	0.46	6.85	
3/15/2011	P		11.08	0.00	155.12	6,500	17	<2.5	150	73	<2.5	1.07	6.8	
MW-10														
3/7/1991	--	167.01	18.09	0.00	148.92	1.6	120	190	32	230	--	--	--	
4/1/1991	--		13.92	0.00	153.09	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	12,000	7,300	500	150	300	--	--	--	
9/27/1991	--		--	--	--	57	12,000	7,200	1,400	4,600	--	--	--	
12/18/1991	--		--	--	--	5.3	2,500	120	36	79	--	--	--	
7/3/1992	--		19.92	0.00	147.09	8,600	5,100	1,300	180	690	--	--	--	
10/5/1992	--		21.92	0.00	145.09	--	--	--	--	--	--	--	--	
1/13/1993	--		14.43	0.00	152.58	--	--	--	--	--	--	--	--	
4/23/1993	--		15.26	0.00	151.75	--	--	--	--	--	--	--	--	
7/12/1993	--		19.78	0.00	147.23	--	--	--	--	--	--	--	--	
10/21/1993	--		22.90	0.00	144.11	--	--	--	--	--	--	--	--	
1/21/1994	--		20.25	0.00	146.76	--	--	--	--	--	--	--	--	
4/20/1994	--		20.74	0.00	146.27	100,000	12,000	24,000	2,400	14,000	1,577	1	--	d,i
8/1/1994	--		22.00	0.00	145.01	--	--	--	--	--	--	--	--	
12/23/1994	--		16.08	0.00	150.93	--	--	--	--	--	--	--	--	
1/26/1995	--		13.68	0.00	153.33	--	--	--	--	--	--	--	--	
6/8/1995	--		19.08	0.00	147.93	--	--	--	--	--	--	--	--	
8/22/1995	--		20.73	0.00	146.28	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-10 Cont.														
10/27/1995	--	167.01	21.69	0.00	145.32	--	--	--	--	--	--	--	--	
1/25/1996	--		15.05	0.00	151.96	--	--	--	--	--	--	--	--	
4/19/1996	--		16.26	0.00	150.75	--	--	--	--	--	--	--	--	
7/23/1996	--		20.18	0.00	146.83	--	--	--	--	--	--	--	--	
9/4/1996	--		--	0.76	--	--	--	--	--	--	--	--	--	
11/11/1996	--		21.20	0.00	145.81	--	--	--	--	--	--	--	--	
1/21/1997	--		13.66	0.00	153.35	--	--	--	--	--	--	--	--	
4/29/1997	--		18.71	0.00	148.30	--	--	--	--	--	--	--	--	
4/30/1997	--		--	--	--	170,000	9,700	38,000	4,700	30,500	<5000	5.6	--	
8/21/1997	--		20.19	0.00	146.82	170,000	9,500	35,000	4,300	27,100	<5000	5.3	--	
11/5/1997	--		20.52	0.00	146.49	80,000	3,800	12,000	2,700	15,700	<500	4.4	--	
12/2/1997	--		--	0.03	--	--	--	--	--	--	--	--	--	
2/3/1998	--		10.62	0.00	156.39	--	--	--	--	--	--	--	--	
2/4/1998	--		--	--	--	72,000	500	1,300	1,700	12,000	<1000	5.1	--	
5/28/1998	--		15.46	0.00	151.55	220,000	3,200	24,000	5,200	43,000	<1000	4.8	--	
12/30/1998	--		16.65	0.00	150.36	110,000	3,500	14,000	5,800	50,000	<50	--	--	
2/2/1999	--		14.58	0.00	152.43	74,000	1,000	2,800	1,000	26,000	860	--	--	
5/10/1999	--		15.72	0.00	151.29	81,000	2,800	2,800	3,000	17,000	220	--	--	
8/24/1999	--		19.85	0.00	147.16	54,000	3,500	3,800	1,500	9,100	<250	--	--	
11/3/1999	--		20.00	0.00	147.01	30,000	3,000	3,500	1,200	5,000	31	--	--	
3/1/2000	--		14.62	0.00	152.39	62,000	320	1,200	1,100	26,000	4,400	--	--	
4/21/2000	--		15.46	0.00	151.55	88,000	2,700	7,400	3,700	35,000	2,400	--	--	
7/31/2000	--		--	--	--	--	--	--	--	--	--	--	--	e
11/20/2000	--		18.74	0.00	148.27	78,000	3,800	5,500	2,800	13,000	450	--	--	
2/18/2001	--		14.10	0.00	152.91	39,000	1,050	1,160	1,550	14,700	4,180	--	--	
6/7/2001	--		18.78	0.00	148.23	76,000	2,460	2,840	3,330	20,700	635	--	--	
9/5/2001	--		21.40	0.01	145.60	25,000	2,510	2,070	1,090	4,540	189	--	--	
11/30/2001	--		18.50	0.00	148.51	100,000	2,480	5,720	3,890	22,800	325	--	--	
2/20/2002	--		14.39	0.00	152.62	49,000	2,170	3,070	1,960	12,300	1,090	--	--	
6/20/2002	--		18.80	0.00	148.21	44,000	2,040	3,050	1,690	8,430	224	--	--	

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Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-10 Cont.														
9/11/2002	--	167.01	20.52	0.00	146.49	28,000	1,200	2,700	1,400	6,800	<250	--	--	
11/12/2002	--		20.37	0.07	146.57	--	--	--	--	--	--	--	--	j
1/29/2003	--		16.33	0.03	150.65	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		16.32	0.00	150.69	13,000	2,100	850	630	1,600	300	--	--	t
6/24/2003	--		18.73	0.04	148.24	--	--	--	--	--	--	--	--	o
7/28/2003	--		20.39	0.04	146.58	--	--	--	--	--	--	--	--	j
8/12/2003	--		20.43	<0.01	146.58	--	--	--	--	--	--	--	--	o,t
9/12/2003	--		20.41	0.00	146.60	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
11/18/2003	P		19.55	<0.01	147.46	9,900	2,200	530	320	860	<50	--	6.8	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
02/23/2004	P		15.45	<0.01	151.56	46,000	1,900	2,000	1,800	9,000	180	--	6.7	t
3/18/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
05/04/2004	P		18.81	<0.01	148.20	35,000	3,100	3,600	1,400	5,600	<25	--	7.1	t
6/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
7/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
08/04/2004	--		18.90	0.00	148.11	--	--	--	--	--	--	--	--	
09/22/2004	NP		20.60	0.00	146.41	--	--	--	--	--	--	--	--	
11/10/2004	P		17.95	0.00	149.06	9,800	470	91	450	1,700	230	--	7.3	t
01/13/2005	--		12.21	0.00	154.80	--	--	--	--	--	--	--	--	
02/15/2005	P		14.19	0.00	152.82	30,000	510	330	1,800	7,200	77	--	7.2	
05/16/2005	P		13.85	0.00	153.16	37,000	540	730	2,100	9,200	<50	--	6.7	
08/17/2005	P		19.01	0.00	148.00	15,000	1,100	420	1,200	4,100	<50	--	6.7	
11/18/2005	P		19.95	0.00	147.06	12,000	1,200	240	550	1,300	16	--	6.8	
02/07/2006	P		12.28	Sheen	154.73	22,000	340	580	1,300	4,500	73	--	6.8	t
5/19/2006	P		15.12	0.00	151.89	40,000	690	430	2,600	4,900	<25	--	6.9	t
8/23/2006	P		20.00	0.00	147.01	13,000	1,500	540	1,200	3,000	<10	--	6.97	
11/15/2006	P		19.84	0.00	147.17	3,800	700	22	67	160	54	0.65	6.78	

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Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-10 Cont.														
2/14/2007	P	167.01	14.94	Sheen	152.07	37,000	350	120	2,400	8,100	120	2.12	7.05	t
5/22/2007	P		17.17	Sheen	149.84	13,000	810	130	750	2,200	15	0.06	7.10	t
8/15/2007	P		20.30	Sheen	146.71	4,400	550	38	160	310	<10	3.09	7.09	
11/8/2007	P		19.58	Sheen	147.43	13,000	970	130	480	1,600	6.0	1.47	7.95	t
2/20/2008	--		14.27	0.05	152.78	--	--	--	--	--	--	--	--	b, j
5/7/2008	P		18.61	0.00	148.40	16,000	970	150	770	2,000	<20	2.18	6.98	t
8/20/2008	--		20.71	0.01	146.31	--	--	--	--	--	--	--	--	b
11/17/2008	P		19.71	0.00	147.30	10,000	960	57	270	720	23	--	6.54	t, w
2/25/2009	P		13.10	0.00	153.91	2,900	53	14	69	160	170	4.06	6.68	
4/8/2009	--		15.91	0.00	151.10	--	--	--	--	--	--	--	--	
5/28/2009	P		17.37	Sheen	149.64	15,000	640	280	790	2,500	65	0.03	6.69	t, x
6/16/2009	--		18.79	0.01	148.23	--	--	--	--	--	--	--	--	
8/6/2009	P		20.19	Sheen	146.82	23,000	850	490	1,200	4,100	<25	0.06	7.23	x
3/4/2010	P		12.32	Sheen	154.69	12,000	71	72	740	1,800	<2.5	0.56	6.81	
9/2/2010	--		19.63	0.02	147.40	--	--	--	--	--	--	--	--	b, j
3/15/2011	--		13.20	0.01	153.82	--	--	--	--	--	--	--	--	
QC-2														
10/5/1992	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
1/13/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f,i
4/23/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f,i
7/12/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
10/21/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
1/21/1994	--		--	--	--	<50	<0.5	2.1	<0.5	2.1	--	--	--	f
4/20/1994	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
12/23/1994	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
1/26/1995	--		--	--	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	f
6/8/1995	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	f
8/22/1995	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	d,f
10/30/1995	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	f
1/25/1996	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	f

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						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
QC-2 Cont.														
4/19/1996	--	168.01	--	--	--	<50	<0.5	<1	<1	<1	<10	--	--	f
RW-1														
7/9/1990	--	168.01	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--		17.62	0.00	150.39	--	--	--	--	--	--	--	--	t
4/1/1991	--		14.40	0.00	153.61	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		20.66	0.00	147.35	--	--	--	--	--	--	--	--	t
10/5/1992	--		23.34	0.00	144.67	--	--	--	--	--	--	--	--	
1/13/1993	--		16.59	0.00	151.42	--	--	--	--	--	--	--	--	
4/23/1993	--		16.17	0.00	151.84	--	--	--	--	--	--	--	--	
7/12/1993	--		20.18	0.00	147.83	--	--	--	--	--	--	--	--	
10/21/1993	--		25.70	0.00	142.31	--	--	--	--	--	--	--	--	
1/21/1994	--		21.24	0.00	146.77	--	--	--	--	--	--	--	--	
4/20/1994	--		32.20	0.00	135.81	--	--	--	--	--	--	--	--	
8/1/1994	--		21.70	0.00	146.31	29,000	580	950	300	7,800	1,200	1.1	--	d
12/23/1994	--		16.02	0.00	151.99	1,300	25	8.6	1.4	69	616	1.8	--	i
1/26/1995	--		13.78	0.00	154.23	<50	<0.5	<0.5	<0.5	<1	--	--	--	
1/26/1995	--		13.78	0.00	154.23	<50	<0.5	<0.5	<0.5	<1	--	--	--	c
6/8/1995	--		20.05	0.00	147.96	1,300	130	<1.0	<1.0	36	--	--	--	
8/22/1995	--		21.74	0.00	146.27	2,800	210	9.3	4.3	250	<25	--	--	c
8/22/1995	--		21.74	0.00	146.27	3,300	230	13	4.9	280	<25	6.6	--	d
10/27/1995	--		32.00	0.00	136.01	--	--	--	--	--	--	--	--	
10/30/1995	--		--	--	--	240	1.6	<1.0	<1.0	<2.0	630	--	--	c
10/30/1995	--		--	--	--	230	1.4	<1.0	<1.0	<2.0	650	6.9	--	
1/25/1996	--		15.41	0.00	152.60	15,000	3,400	930	330	2,500	5,300	--	--	
4/19/1996	--		16.83	0.00	151.18	35,000	5,500	3,300	1,700	9,400	14,000	7.6	--	
4/19/1996	--		16.83	0.00	151.18	33,000	5,600	3,200	1,700	8,800	15,000	--	--	c

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
RW-1 Cont.														
7/23/1996	--	168.01	20.76	0.00	147.25	47,000	3,700	2,500	930	5,300	35,000	--	--	c
7/23/1996	--		20.76	0.00	147.25	46,000	3,600	2,300	900	5,100	36,000	7.4	--	
11/11/1996	--		21.73	0.00	146.28	31,000	2,900	1,000	860	4,600	22,000	--	--	c
11/11/1996	--		21.73	0.00	146.28	34,000	3,000	1,200	880	4,600	22,000	8.3	--	
1/21/1997	--		14.20	0.00	153.81	270	42	17	2.7	36	1,500	--	--	c
1/21/1997	--		14.20	0.00	153.81	260	40	16	2.7	34	1,500	6.1	--	
4/29/1997	--		19.15	0.00	148.86	32,000	3,100	590	1,300	6,000	46,000	5.3	--	
8/21/1997	--		20.67	0.00	147.34	7,600	730	58	370	1,780	9,500	4.7	--	
11/5/1997	--		21.01	0.00	147.00	39,000	2,300	86	1,300	3,840	56,000	4.5	--	
2/3/1998	--		10.68	0.00	157.33	3,400	31	11	29	161	3,200	5.1	--	
5/28/1998	--		15.55	0.00	152.46	2,000	90	15	60	305	2,700	4.3	--	
12/30/1998	--		17.35	0.00	150.66	--	--	--	--	--	--	--	--	
2/2/1999	--		14.58	0.00	153.43	82,000	2,300	120	2,000	3,200	51000/78000	--	--	g
5/10/1999	--		16.00	0.00	152.01	15,000	620	88	340	660	61,000	--	--	
8/24/1999	--		20.00	0.00	148.01	52,000	1,400	170	2,200	2,900	37,000	--	--	
11/3/1999	--		20.39	0.00	147.62	17,000	2,500	86	1,500	970	54,000	--	--	
3/1/2000	--		12.97	0.00	155.04	17,000	580	78	790	1,100	13,000	--	--	
4/21/2000	--		16.02	0.00	151.99	31,000	2,100	100	1,400	1,100	39,000	--	--	
7/31/2000	--		21.89	0.00	146.12	47,000	1,300	170	2,700	2,300	30,000	--	--	
11/20/2000	--		19.15	0.00	148.86	--	--	--	--	--	--	--	--	h
2/18/2001	--		15.35	0.00	152.66	14,000	589	89	600	712	13,000	--	--	
6/7/2001	--		19.09	0.00	148.92	28,000	1,140	68.2	504	530	19,100	--	--	
9/5/2001	--		22.06	0.02	145.93	--	--	--	--	--	--	--	--	j
11/30/2001	--		19.53	0.00	148.48	20,000	405	39.4	545	740	8,260	--	--	
2/20/2002	--		15.99	0.00	152.02	13,000	469	29	434	655	7,240	--	--	
6/20/2002	--		19.31	0.00	148.70	--	--	--	--	--	--	--	--	j,l
9/11/2002	--		21.07	0.03	146.91	--	--	--	--	--	--	--	--	j
11/12/2002	--		20.92	0.02	147.07	--	--	--	--	--	--	--	--	j
1/29/2003	--		16.31	0.04	151.66	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		16.68	0.00	151.33	--	--	--	--	--	--	--	--	j,t

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
RW-1 Cont.														
6/24/2003	--	168.01	19.76	0.07	148.18	--	--	--	--	--	--	--	--	o
7/28/2003	--		21.04	0.04	146.93	--	--	--	--	--	--	--	--	j
8/12/2003	--		21.41	<0.01	146.60	--	--	--	--	--	--	--	--	o,t
9/12/2003	--		21.10	0.07	146.84	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	0.03	--	--	--	--	--	--	--	--	--	
11/18/2003	P		20.10	<0.01	147.91	12,000	770	<50	320	250	6,100	--	6.6	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
02/23/2004	--		14.35	0.01	153.67	--	--	--	--	--	--	--	--	
3/18/2004	--		--	0.09	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	0.02	--	--	--	--	--	--	--	--	--	
05/04/2004	--		19.58	0.02	148.45	--	--	--	--	--	--	--	--	
6/2/2004	--		--	0.05	--	--	--	--	--	--	--	--	--	
7/2/2004	--		--	0.11	--	--	--	--	--	--	--	--	--	
08/04/2004	--		22.05	0.05	146.00	--	--	--	--	--	--	--	--	
09/22/2004	NP		21.28	0.06	146.78	--	--	--	--	--	--	--	--	
10/26/2004	--		--	0.01	--	--	--	--	--	--	--	--	--	
11/10/2004	--		18.56	0.02	149.47	--	--	--	--	--	--	--	--	
12/27/2004	--		--	0.03	--	--	--	--	--	--	--	--	--	
01/13/2005	--		12.51	0.01	155.51	--	--	--	--	--	--	--	--	
02/15/2005	--		15.24	0.03	152.79	--	--	--	--	--	--	--	--	
03/07/2005	--		11.90	0.02	156.13	--	--	--	--	--	--	--	--	
4/29/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
05/16/2005	--		14.39	0.02	153.64	--	--	--	--	--	--	--	--	j
6/21/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
7/7/2005	--		--	0.06	--	--	--	--	--	--	--	--	--	
08/17/2005	--		19.91	0.03	148.12	--	--	--	--	--	--	--	--	j
9/6/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
10/4/2005	--		--	0.07	--	--	--	--	--	--	--	--	--	
11/18/2005	--		20.36	0.07	147.71	--	--	--	--	--	--	--	--	b, j
12/30/2005	--		--	0.04	--	--	--	--	--	--	--	--	--	

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	pH	Footnote
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
RW-1 Cont.														
1/24/2006	--	168.01	--	0.01	--	--	--	--	--	--	--	--	--	
02/07/2006	--		12.87	0.01	155.15	--	--	--	--	--	--	--	--	j
3/30/2006	--		--	0.02	--	--	--	--	--	--	--	--	--	
5/19/2006	--		15.87	0.04	152.17	--	--	--	--	--	--	--	--	b
8/23/2006	--		20.50	0.07	147.56	--	--	--	--	--	--	--	--	b, j
11/15/2006	--		20.52	0.07	147.54	--	--	--	--	--	--	--	--	b, j
2/14/2007	--		15.44	0.04	152.60	--	--	--	--	--	--	--	--	b, j
5/22/2007	--		17.78	Sheen	150.23	--	--	--	--	--	--	--	--	j, l
8/15/2007	--		20.80	0.02	147.23	--	--	--	--	--	--	--	--	b, j
11/8/2007	--		20.32	0.01	147.70	--	--	--	--	--	--	--	--	b, j
2/20/2008	--		14.55	0.02	153.48	--	--	--	--	--	--	--	--	b, j
5/7/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
8/20/2008	--		21.34	0.02	146.69	--	--	--	--	--	--	--	--	b
11/17/2008	P		20.41	0.00	147.60	13,000	120	<20	590	320	120	--	6.47	w
2/25/2009	--		13.40	0.02	154.63	--	--	--	--	--	--	--	--	b
4/8/2009	--		16.45	0.00	151.56	--	--	--	--	--	--	--	--	
5/28/2009	--		17.88	0.01	150.14	--	--	--	--	--	--	--	--	b
6/16/2009	--		19.30	0.01	148.72	--	--	--	--	--	--	--	--	
8/6/2009	--		20.72	0.01	147.30	--	--	--	--	--	--	--	--	b, j
3/4/2010	P		12.33	Sheen	155.68	8,000	20	<2.5	230	140	110	1.24	6.77	
9/2/2010	NP		20.14	0.00	147.87	4,700	18	<2.5	78	46	<2.5	0.66	7.31	
3/15/2011	P		13.03	0.00	154.98	7,000	3.7	<2.5	44	31	6.7	0.79	7.0	

Symbols & Abbreviations:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = Feet below ground surface
ft MSL = Feet above mean sea level
GRO = Gasoline range organics
GWE = Groundwater elevation measured in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert-butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing measured in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter
SEQ/SEQM= Sequoia Analytical/Sequoia Analytical Morgan Hill (Laboratories)
SPH = Separate phase hydrocarbons
CEL = Calscience Environmental Laboratories

Footnotes:

a = Casing elevations surveyed to the nearest 0.01 ft MSL
b = GWE adjusted assuming a specific gravity of 0.75 for free product (FP)
c = Blind duplicate.
d = A copy of the documentation for this data is included in Appendix C of Alisto report 10-024-10-001
e = Well inaccessible
f = Travel blank
g = EPA Methods 8020/8260 used
h = Unable to sample
i = A copy of the documentation for this data can be found in Blaine Tech Services report 010607-M-3. MTBE data for the January 13, 1993 and April 23, 1993 sampling events has been destroyed. No chromatograms could be located for MTBE data from wells MW-5, MW-6, and MW-7, sampled on October 21, 1993
j = Well not sampled due to presence of SPH and nature of the product
k = Could not purge and sample; waste drum full
l = Value represents the depth to product. Unable to determine depth to water, product disabled the interface probe.
m = Discrete p[ak @ C6-7
n = TPH-g, BTEX, and MTBE analyzed by EPA method 8260 B beginning on 1st quarter 2003 sampling event (1/29/03)
o = Groundwater samples are not collected during FP bailing event
p = Well not included in the monthly FP bailing program
q = Well not sampled in November 2003 due to the presence of a pile of gravel dumped over the well box
r = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose
s = MW-7 TOC elevation raised +0.47 ft during well repair on January 20, 2004
t = Sheen in well
u = Calib. verif. is within method limits but outside contract limits
v = GRO result partly due to individual peak(s) in quantitation range
w = DO meter not working at time of measurement
x = DO measurement suspect
y = Sample dilution was done with headspace in the sample vial. The samples were originally analyzed from VOAs without headspace

Notes:

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12

Values for DO and pH were obtained through field measurements

GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008. The analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through the present

The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
4/30/1997	--	--	6,900	--	--	--	--	--	
4/30/1997	--	--	7,700	--	--	--	--	--	
8/21/1997	--	--	5,200	--	--	--	--	--	
8/21/1997	--	--	5,700	--	--	--	--	--	
11/5/1997	--	--	8,200	--	--	--	--	--	
11/5/1997	--	--	8,000	--	--	--	--	--	
2/4/1998	--	--	<10000	--	--	--	--	--	
2/4/1998	--	--	<10000	--	--	--	--	--	
5/28/1998	--	--	2,900	--	--	--	--	--	
12/30/1998	--	--	3,600	--	--	--	--	--	
2/2/1999	--	--	3,500	--	--	--	--	--	
5/10/1999	--	--	3,000	--	--	--	--	--	
8/24/1999	--	--	<50	--	--	--	--	--	
11/3/1999	--	--	8,900	--	--	--	--	--	
4/21/2000	--	--	1,300	--	--	--	--	--	
7/31/2000	--	--	2,700	--	--	--	--	--	
11/20/2000	--	--	3,900	--	--	--	--	--	
2/26/2001	--	--	1,890	--	--	--	--	--	
6/7/2001	--	--	2,720	--	--	--	--	--	
12/6/2001	--	--	5,400	--	--	--	--	--	
2/20/2002	--	--	106	--	--	--	--	--	
5/19/2006	<6,000	<400	86	<10	<10	<10	<10	<10	
11/17/2008	<6,000	350	590	<10	<10	27	<10	<10	
3/4/2010	<2,000	<80	<10	<10	<10	<10	<10	<10	
9/2/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
3/15/2011	<2500	<40	16	<5.0	<5.0	<5.0	<5.0	<5.0	
MW-2									
4/20/1994	--	--	24	--	--	--	--	--	
4/30/1997	--	--	<5000	--	--	--	--	--	
8/21/1997	--	--	<500	--	--	--	--	--	
11/5/1997	--	--	<2500	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2 Cont.									
2/3/1998	--	--	<2500	--	--	--	--	--	
5/28/1998	--	--	900	--	--	--	--	--	
12/30/1998	--	--	<250	--	--	--	--	--	
2/2/1999	--	--	<500	--	--	--	--	--	
5/10/1999	--	--	75	--	--	--	--	--	
8/24/1999	--	--	<250	--	--	--	--	--	
11/3/1999	--	--	2,200	--	--	--	--	--	
3/1/2000	--	--	44	--	--	--	--	--	
4/21/2000	--	--	260	--	--	--	--	--	
7/31/2000	--	--	490	--	--	--	--	--	
11/20/2000	--	--	2,800	--	--	--	--	--	
2/18/2001	--	--	1,010	--	--	--	--	--	
6/7/2001	--	--	567	--	--	--	--	--	
9/5/2001	--	--	1,510	--	--	--	--	--	
11/30/2001	--	--	794	--	--	--	--	--	
2/20/2002	--	--	160	--	--	--	--	--	
6/20/2002	--	--	659	--	--	--	--	--	
9/11/2002	--	--	<5000	--	--	--	--	--	
11/12/2002	--	--	1,900	--	--	--	--	--	
1/29/2003	<4000	<2000	820	<50	<50	<50	<50	<50	
5/22/2003	<10000	<2000	1,000	<50	<50	<50	--	--	
7/28/2003	<20000	<4000	1,700	<100	<100	<100	<100	<100	a
11/18/2003	<5,000	<1,000	500	<25	<25	<25	--	--	
02/23/2004	<25,000	<5,000	790	<120	<120	<120	<120	<120	
05/04/2004	<50,000	<10,000	780	<250	<250	<250	<250	<250	
08/04/2004	<50,000	<10,000	430	<250	<250	<250	<250	<250	
11/10/2004	<5,000	<1,000	310	<25	<25	<25	<25	<25	
02/15/2005	<20,000	<4,000	690	<100	<100	<100	<100	<100	
05/16/2005	<50,000	<10,000	560	<250	<250	<250	<250	<250	
08/17/2005	<20,000	<4,000	480	<100	<100	<100	<100	<100	
11/18/2005	<20,000	<4,000	340	<100	<100	<100	<100	<100	b
02/07/2006	<60,000	<4,000	440	<100	<100	<100	160	<100	

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2 Cont.									
5/19/2006	<60,000	<4,000	430	<100	<100	<100	<100	<100	b
8/23/2006	<60,000	<4,000	480	<100	<100	<100	<100	<100	
11/15/2006	<60,000	<4,000	400	<100	<100	<100	<100	<100	
2/14/2007	<60,000	<4,000	810	<100	<100	<100	<100	<100	
5/22/2007	<150,000	<10,000	1,000	<250	<250	<250	<250	<250	
8/15/2007	<30,000	2,400	260	<50	<50	<50	<50	<50	b
11/8/2007	<30,000	2,800	240	<50	<50	<50	<50	<50	
11/17/2008	<6,000	1,800	320	<10	<10	<10	<10	<10	
2/25/2009	<150,000	<5,000	<250	<250	<250	<250	<250	<250	
5/28/2009	<75,000	<2,500	510	<120	<120	<120	<120	<120	
3/4/2010	<1,000	2,600	350	<5.0	<5.0	12	<5.0	<5.0	
9/2/2010	<2,000	<80	470	<10	<10	14	<10	<10	
3/15/2011	<50,000	<800	500	<100	<100	<100	<100	<100	
MW-3									
7/12/1993	--	--	<5.0	--	--	--	--	--	
10/21/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	28.7	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
8/1/1994	--	--	5.43	--	--	--	--	--	
12/23/1994	--	--	9.8	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	
10/30/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	5.1	--	--	--	--	--	
4/19/1996	--	--	<10	--	--	--	--	--	
7/23/1996	--	--	<10	--	--	--	--	--	
11/11/1996	--	--	<50	--	--	--	--	--	
1/21/1997	--	--	<10	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
8/21/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	<50	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-3 Cont.									
2/3/1998	--	--	<10	--	--	--	--	--	
5/28/1998	--	--	<50	--	--	--	--	--	
2/2/1999	--	--	<5.0	--	--	--	--	--	
3/1/2000	--	--	<0.5	--	--	--	--	--	
2/18/2001	--	--	1	--	--	--	--	--	
2/20/2002	--	--	<0.5	--	--	--	--	--	
1/27/2003	<40	<20	0.76	<50	<50	<50	<50	<50	
02/23/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/15/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	u
2/20/2008	<100	<10	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4									
7/12/1993	--	--	<5.0	--	--	--	--	--	
10/21/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	<5.0	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	58	--	--	--	--	--	
11/11/1996	--	--	34	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	76	--	--	--	--	--	
5/28/1998	--	--	160	--	--	--	--	--	
2/2/1999	--	--	130	--	--	--	--	--	
3/1/2000	--	--	110	--	--	--	--	--	
2/18/2001	--	--	97.3	--	--	--	--	--	
2/20/2002	--	--	81	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
1/29/2003	<40	<20	66	<0.50	<0.50	<0.50	<0.50	<0.50	
02/23/2004	<100	<20	65	<0.50	<0.50	<0.50	<0.50	<0.50	
02/15/2005	<100	<20	62	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	29	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	61	<0.50	<0.50	<0.50	<0.50	<0.50	
2/20/2008	<100	<10	36	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	<300	<10	26	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2010	<100	4.4	34	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	4.1	26	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5									
7/12/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	21.2	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
12/23/1994	--	--	7.81	--	--	--	--	--	
8/22/1995	--	--	<130	--	--	--	--	--	
10/30/1995	--	--	<250	--	--	--	--	--	
1/25/1996	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	<5.0	--	--	--	--	--	
4/19/1996	--	--	<50	--	--	--	--	--	
7/23/1996	--	--	<10	--	--	--	--	--	
11/11/1996	--	--	<10	--	--	--	--	--	
1/21/1997	--	--	<50	--	--	--	--	--	
4/29/1997	--	--	<50	--	--	--	--	--	
8/21/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	<10	--	--	--	--	--	
2/3/1998	--	--	<10	--	--	--	--	--	
5/28/1998	--	--	<10	--	--	--	--	--	
2/2/1999	--	--	9.1	--	--	--	--	--	
3/1/2000	--	--	2.9	--	--	--	--	--	
2/18/2001	--	--	5.67	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5 Cont.									
2/20/2002	--	--	55.6	--	--	--	--	--	
11/12/2002	--	--	210	--	--	--	--	--	
1/29/2003	<400	<200	82	<5.0	<5.0	<5.0	<5.0	<5.0	
5/22/2003	<10000	<2000	<50	<50	<50	<50	--	--	
7/28/2003	<2000	<400	120	<10	<10	<10	<10	<10	
11/18/2003	--	--	--	--	--	--	--	--	Well inaccessible
02/23/2004	<5,000	<1,000	100	<25	<25	<25	38	<25	
05/04/2004	<5,000	<1,000	42	<25	<25	<25	<25	<25	
08/04/2004	<5,000	<1,000	390	<25	<25	<25	<25	<25	
11/10/2004	<1,000	<200	530	<5.0	<5.0	5.5	<5.0	<5.0	
02/15/2005	<1,000	<200	260	<5.0	<5.0	<5.0	<5.0	<5.0	
05/16/2005	<1,000	<200	370	<5.0	<5.0	<5.0	<5.0	<5.0	
08/17/2005	<1,000	<200	51	<5.0	<5.0	<5.0	<5.0	<5.0	
11/18/2005	<1,000	<200	340	<5.0	<5.0	<5.0	<5.0	<5.0	b
02/07/2006	<3,000	<200	200	<5.0	<5.0	<5.0	<5.0	<5.0	
5/19/2006	<3,000	<200	44	<5.0	<5.0	<5.0	<5.0	<5.0	b
8/23/2006	<3,000	<200	230	<5.0	<5.0	<5.0	<5.0	<5.0	
11/15/2006	<1,500	<100	490	<2.5	<2.5	4.2	<2.5	<2.5	
2/14/2007	<1,500	<100	420	<2.5	<2.5	3.6	<2.5	<2.5	
5/22/2007	<1,500	<100	26	<2.5	<2.5	<2.5	<2.5	<2.5	
8/15/2007	<6,000	<400	280	<10	<10	<10	<10	<10	
11/8/2007	<1,500	310	270	<2.5	<2.5	<2.5	<2.5	<2.5	
2/20/2008	<1,000	<100	43	<5.0	<5.0	<5.0	<5.0	<5.0	
5/7/2008	<6,000	<200	30	<10	<10	<10	<10	<10	
8/20/2008	<1,200	270	260	<2.0	<2.0	3.0	<2.0	<2.0	
2/25/2009	<300	110	68	<0.50	<0.50	0.62	<0.50	<0.50	
5/28/2009	<600	<20	11	<1.0	<1.0	<1.0	<1.0	<1.0	
8/6/2009	<3,000	340	190	<5.0	<5.0	<5.0	<5.0	<5.0	
3/4/2010	<100	38	15	<0.50	<0.50	<0.50	<0.50	<0.50	
9/2/2010	<100	<4.0	13	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	<4.0	5.9	<0.50	<0.50	<0.50	<0.50	<0.50	

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-6									
7/12/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	17.4	--	--	--	--	--	
8/1/1994	--	--	8.66	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	9.9	--	--	--	--	--	
11/11/1996	--	--	<10	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	85	--	--	--	--	--	
5/28/1998	--	--	<10	--	--	--	--	--	
05/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/20/2008	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7									
7/12/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	<5.0	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	<5.0	--	--	--	--	--	
11/11/1996	--	--	<10	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	<10	--	--	--	--	--	
5/28/1998	--	--	<10	--	--	--	--	--	
02/07/2006	<3,000	<200	270	<5.0	<5.0	<5.0	<5.0	<5.0	
2/14/2007	<3,000	<200	740	<5.0	<5.0	9.6	<5.0	<5.0	
2/20/2008	<100	13	700	<0.50	<0.50	12	0.60	<0.50	

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7 Cont.									
2/25/2009	<12,000	<400	540	<20	<20	<20	<20	<20	
3/4/2010	<100	4.0	920	<0.50	<0.50	17	0.74	<0.50	
3/15/2011	<250	130	990	<0.50	<0.50	17	0.81	<0.50	
MW-8									
4/20/1994	--	--	632	--	--	--	--	--	
8/21/1997	--	--	<1000	--	--	--	--	--	
11/5/1997	--	--	<1000	--	--	--	--	--	
2/4/1998	--	--	<2500	--	--	--	--	--	
12/30/1998	--	--	150	--	--	--	--	--	
2/2/1999	--	--	<500	--	--	--	--	--	
5/10/1999	--	--	<25	--	--	--	--	--	
8/24/1999	--	--	150	--	--	--	--	--	
11/3/1999	--	--	750	--	--	--	--	--	
3/1/2000	--	--	120	--	--	--	--	--	
11/20/2000	--	--	5,700	--	--	--	--	--	
2/20/2002	--	--	80.4	--	--	--	--	--	
6/20/2002	--	--	2,520	--	--	--	--	--	
9/11/2002	--	--	1,200	--	--	--	--	--	
11/12/2002	--	--	31	--	--	--	--	--	
1/29/2003	<4000	<2000	<500	<50	<50	<50	<50	<50	
5/22/2003	<5000	<1000	--	<25	<25	<25	--	--	
6/24/2003	--	--	46	--	--	--	--	--	
7/28/2003	<20000	<4000	2,100	<100	<100	<100	<100	<100	
11/18/2003	<2,000	<400	1,700	<10	<10	20	--	--	a,b
02/23/2004	<10,000	<2,000	110	<50	<50	<50	<50	<50	
05/04/2004	<5,000	<1,000	2,000	<25	<25	33	<25	<25	
11/10/2004	<5,000	<1,000	74	<25	<25	<25	<25	<25	
02/15/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
05/16/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
08/17/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
11/18/2005	<10,000	<2,000	140	<50	<50	<50	<50	<50	b

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-8 Cont.									
02/07/2006	<3,000	<200	7.5	<5.0	<5.0	<5.0	<5.0	<5.0	
5/19/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	b
8/23/2006	<15,000	<1,000	82	<25	<25	<25	<25	<25	
11/15/2006	<15,000	<1,000	110	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	82	<25	<25	<25	<25	<25	
5/22/2007	<6,000	<400	11	<10	<10	<10	<10	<10	
8/15/2007	<6,000	<400	28	<10	<10	<10	<10	<10	
11/8/2007	<15,000	<1,000	27	<25	<25	<25	<25	<25	
2/25/2009	<6,000	<200	35	<10	<10	<10	<10	<10	
5/28/2009	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
3/4/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
9/2/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
3/15/2011	<1,200	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-9									
7/12/1993	--	--	20.8	--	--	--	--	--	
4/20/1994	--	--	768	--	--	--	--	--	
4/20/1994	--	--	740	--	--	--	--	--	
4/30/1997	--	--	<5000	--	--	--	--	--	
8/21/1997	--	--	<500	--	--	--	--	--	
11/5/1997	--	--	<500	--	--	--	--	--	
2/3/1998	--	--	<1000	--	--	--	--	--	
5/28/1998	--	--	<250	--	--	--	--	--	
5/28/1998	--	--	<500	--	--	--	--	--	
12/30/1998	--	--	180	--	--	--	--	--	
2/2/1999	--	--	<50	--	--	--	--	--	
5/10/1999	--	--	72	--	--	--	--	--	
8/24/1999	--	--	<250	--	--	--	--	--	
11/3/1999	--	--	<5.0	--	--	--	--	--	
3/1/2000	--	--	63	--	--	--	--	--	
4/21/2000	--	--	<5.0	--	--	--	--	--	
7/31/2000	--	--	1,600	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
11/20/2000	--	--	3,900	--	--	--	--	--	
2/18/2001	--	--	121	--	--	--	--	--	
6/7/2001	--	--	223	--	--	--	--	--	
9/5/2001	--	--	310	--	--	--	--	--	
11/30/2001	--	--	285	--	--	--	--	--	
2/20/2002	--	--	293	--	--	--	--	--	
6/20/2002	--	--	208	--	--	--	--	--	
9/11/2002	--	--	<2500	--	--	--	--	--	
11/12/2002	--	--	21	--	--	--	--	--	
5/22/2003	<10000	<2000	<50	<50	<50	<50	--	--	
7/28/2003	<100000	<20000	<500	<500	<500	<500	<500	<500	
11/18/2003	<2,000	<400	45	<10	<10	<10	--	--	a,b
02/23/2004	<50,000	<10,000	<250	<250	<250	<250	<250	<250	
05/04/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/10/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
02/15/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
05/16/2005	<2,000	<400	<10	<10	<10	<10	<10	<10	
08/17/2005	<2,500	<500	<12	<12	<12	<12	<12	<12	
11/18/2005	<1,000	<200	19	<5.0	<5.0	<5.0	<5.0	<5.0	b
02/07/2006	<3,000	<200	<5.0	<5.0	<5.0	5.4	<5.0	<5.0	
8/23/2006	<30,000	<2,000	<50	<50	<50	<50	<50	<50	
11/15/2006	<15,000	<1,000	26	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
5/22/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
8/15/2007	<1,500	<100	27	<2.5	<2.5	<2.5	<2.5	<2.5	b
11/8/2007	<3,000	<200	52	<5.0	<5.0	<5.0	<5.0	<5.0	
11/17/2008	<1,500	<50	33	<2.5	<2.5	<2.5	<2.5	<2.5	
2/25/2009	<6,000	<200	<10	<10	<10	<10	<10	<10	
5/28/2009	<6,000	<200	<10	<10	<10	<10	<10	<10	
8/6/2009	<1,200	<40	18	<2.0	<2.0	<2.0	<2.0	<2.0	
3/4/2010	<500	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
9/2/2010	<500	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
3/15/2011	<1,200	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-10									
4/20/1994	--	--	1,577	--	--	--	--	--	
4/30/1997	--	--	<5000	--	--	--	--	--	
8/21/1997	--	--	<5000	--	--	--	--	--	
11/5/1997	--	--	<500	--	--	--	--	--	
2/4/1998	--	--	<1000	--	--	--	--	--	
5/28/1998	--	--	<1000	--	--	--	--	--	
12/30/1998	--	--	<50	--	--	--	--	--	
2/2/1999	--	--	860	--	--	--	--	--	
5/10/1999	--	--	220	--	--	--	--	--	
8/24/1999	--	--	<250	--	--	--	--	--	
11/3/1999	--	--	31	--	--	--	--	--	
3/1/2000	--	--	4,400	--	--	--	--	--	
4/21/2000	--	--	2,400	--	--	--	--	--	
11/20/2000	--	--	450	--	--	--	--	--	
2/18/2001	--	--	4,180	--	--	--	--	--	
6/7/2001	--	--	635	--	--	--	--	--	
9/5/2001	--	--	189	--	--	--	--	--	
11/30/2001	--	--	325	--	--	--	--	--	
2/20/2002	--	--	1,090	--	--	--	--	--	
6/20/2002	--	--	224	--	--	--	--	--	
9/11/2002	--	--	<250	--	--	--	--	--	
5/22/2003	<10000	<2000	300	<50	<50	<50	--	--	
11/18/2003	<10,000	<2,000	<50	<50	<50	<50	--	--	b
02/23/2004	<20,000	<4,000	180	<100	<100	<100	<100	<100	
05/04/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/10/2004	<5,000	<1,000	230	<25	<25	<25	<25	<25	b
02/15/2005	<10,000	<2,000	77	<50	<50	<50	<50	<50	
05/16/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
08/17/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-10 Cont.									
11/18/2005	<2,500	<500	16	<12	<12	<12	<12	<12	b
02/07/2006	<15,000	<1,000	73	<25	<25	<25	<25	<25	
5/19/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	b
8/23/2006	<6,000	<400	<10	<10	<10	<10	<10	<10	
11/15/2006	<6,000	<400	54	<10	<10	<10	<10	<10	
2/14/2007	<6,000	<400	120	<10	<10	<10	<10	<25	
5/22/2007	<6,000	<400	15	<10	<10	<10	<10	<10	
8/15/2007	<6,000	<400	<10	<10	<10	<10	<10	<10	
11/8/2007	<3,000	<200	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	
5/7/2008	<12,000	<400	<20	<20	<20	<20	<20	<20	
11/17/2008	<12,000	<400	23	<20	<20	<20	<20	<20	
2/25/2009	<6,000	280	170	<10	<10	<10	<10	<10	
5/28/2009	<1,500	110	65	<2.5	<2.5	<2.5	<2.5	<2.5	
8/6/2009	<15,000	<500	<25	<25	<25	<25	<25	<25	
3/4/2010	<500	160	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
QC-2									
8/22/1995	--	--	<5.0	--	--	--	--	--	
10/30/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	<5.0	--	--	--	--	--	
4/19/1996	--	--	<10	--	--	--	--	--	
RW-1									
8/1/1994	--	--	1,200	--	--	--	--	--	
12/23/1994	--	--	616	--	--	--	--	--	
8/22/1995	--	--	<25	--	--	--	--	--	
8/22/1995	--	--	<25	--	--	--	--	--	
10/30/1995	--	--	630	--	--	--	--	--	
10/30/1995	--	--	650	--	--	--	--	--	
1/25/1996	--	--	5,300	--	--	--	--	--	
4/19/1996	--	--	15,000	--	--	--	--	--	
4/19/1996	--	--	14,000	--	--	--	--	--	

**Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Well and Sample Date	Concentrations in (µg/L)								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
RW-1 Cont.									
7/23/1996	--	--	36,000	--	--	--	--	--	
7/23/1996	--	--	35,000	--	--	--	--	--	
11/11/1996	--	--	22,000	--	--	--	--	--	
11/11/1996	--	--	22,000	--	--	--	--	--	
1/21/1997	--	--	1,500	--	--	--	--	--	
1/21/1997	--	--	1,500	--	--	--	--	--	
4/29/1997	--	--	46,000	--	--	--	--	--	
8/21/1997	--	--	9,500	--	--	--	--	--	
11/5/1997	--	--	56,000	--	--	--	--	--	
2/3/1998	--	--	3,200	--	--	--	--	--	
5/28/1998	--	--	2,700	--	--	--	--	--	
2/2/1999	--	--	51000/78000	--	--	--	--	--	
5/10/1999	--	--	61,000	--	--	--	--	--	
8/24/1999	--	--	37,000	--	--	--	--	--	
11/3/1999	--	--	54,000	--	--	--	--	--	
3/1/2000	--	--	13,000	--	--	--	--	--	
4/21/2000	--	--	39,000	--	--	--	--	--	
7/31/2000	--	--	30,000	--	--	--	--	--	
2/18/2001	--	--	13,000	--	--	--	--	--	
6/7/2001	--	--	19,100	--	--	--	--	--	
11/30/2001	--	--	8,260	--	--	--	--	--	
2/20/2002	--	--	7,240	--	--	--	--	--	
11/18/2003	<10,000	11,000	6,100	<50	<50	160	--	--	a,b
11/17/2008	<12,000	<400	120	<20	<20	<20	<20	<20	
3/4/2010	<500	45	110	<2.5	<2.5	5.7	<2.5	<2.5	
9/2/2010	<500	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
3/15/2011	<1,200	<20	6.7	<2.5	<2.5	<2.5	<2.5	<2.5	

Symbols & Abbreviations:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above specified laboratory reporting limit

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

µg/L = Micrograms per Liter

Footnotes:

a = The result for TBA was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria

b = The continuing calibration verification for ethanol was outside of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be useful for its intended purpose

Notes:

All volatile organic compounds analyzed using EPA Method 8260B

The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

**Table 3. Historical Groundwater Flow Direction and Gradient
Former BP Station #11132, 3201 35th Ave, Oakland, CA**

Date Measured	Approximate Groundwater Flow Direction	Approximate Hydraulic Gradient (ft/ft)
5/19/2006	South	0.003 to 0.005
8/23/2006	Southwest	0.01
11/15/2006	South	0.004
2/14/2007	Southeast	0.01
5/22/2007	South	0.005
8/15/2007	South-Southwest	0.008
11/8/2007	Southwest	0.006
2/20/2008	Southeast	0.008
5/7/2008	South-Southwest	0.003
8/20/2008	South-Southwest	0.007
11/17/2008	South-Southwest	0.005
2/25/2009	Southeast	0.01
5/28/2009	South	0.004
8/6/2009	South-Southwest	0.005
3/4/2010	East-Southeast	0.02
9/2/2010	Southwest	0.01
3/15/2011	Southeast	0.01

Notes:

The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

Table 4. Bio-Degradation Parameters
Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (mg/L)									Total Alkalinity	ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane				
MW-1													
4/30/1997	5.2	--	--	--	--	--	--	--	--	--	--	--	
8/21/1997	5.3	--	--	--	--	--	--	--	--	--	--	--	
11/5/1997	4.7	--	--	--	--	--	--	--	--	--	--	--	
2/4/1998	5.3	--	--	--	--	--	--	--	--	--	--	--	
5/28/1998	3.8	--	--	--	--	--	--	--	--	--	--	--	
5/19/2006	--	--	--	--	--	--	--	--	--	--	--	6.9	
11/17/2008	--	<0.1	2.750	3.400	<1	<0.050	--	65	4.830	426	126	6.60	DO meter not working
3/4/2010	0.54	--	--	--	--	--	--	--	--	--	-106	6.96	
9/2/2010	0.52	--	--	--	--	--	--	--	--	--	186	7.01	
3/15/2011	0.85	--	--	--	--	--	--	--	--	--	-95	7.0	
MW-2													
4/20/1994	1.7	--	--	--	--	--	--	--	--	--	--	--	
4/30/1997	5	--	--	--	--	--	--	--	--	--	--	--	
8/21/1997	4.6	--	--	--	--	--	--	--	--	--	--	--	
11/5/1997	4.6	--	--	--	--	--	--	--	--	--	--	--	
2/3/1998	4.5	--	--	--	--	--	--	--	--	--	--	--	
5/28/1998	4.3	--	--	--	--	--	--	--	--	--	--	--	
11/18/2003	--	--	--	--	--	--	--	--	--	--	--	6.6	
02/23/2004	--	--	--	--	--	--	--	--	--	--	--	6.6	
05/04/2004	--	--	--	--	--	--	--	--	--	--	--	6.6	
08/04/2004	--	--	--	--	--	--	--	--	--	--	--	6.69	
11/10/2004	--	--	--	--	--	--	--	--	--	--	--	7.5	
02/15/2005	--	--	--	--	--	--	--	--	--	--	--	7.1	
05/16/2005	--	--	--	--	--	--	--	--	--	--	--	6.5	
08/17/2005	--	--	--	--	--	--	--	--	--	--	--	6.6	
11/18/2005	--	--	--	--	--	--	--	--	--	--	--	6.6	
02/07/2006	--	--	--	--	--	--	--	--	--	--	--	6.7	
5/19/2006	--	--	--	--	--	--	--	--	--	--	--	6.6	
8/23/2006	--	--	--	--	--	--	--	--	--	--	--	6.6	
11/15/2006	0.70	--	--	--	--	--	--	--	--	--	--	6.73	

Table 4. Bio-Degradation Parameters
Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (mg/L)										ORP (mV)	pH	Footnote	
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane	Total Alkalinity				
MW-2 Cont.														
2/14/2007	1.43	--	--	--	--	--	--	--	--	--	--	--	6.97	
5/22/2007	0.08	--	--	--	--	--	--	--	--	--	--	--	6.90	
8/15/2007	4.24	--	--	--	--	--	--	--	--	--	--	--	6.78	
11/8/2007	1.21	--	--	--	--	--	--	--	--	--	--	--	7.03	
11/17/2008	--	<0.1	6.380	7.300	1.1	<0.050	--	98.5	5.350	838	111	6.46	DO meter not working	
2/25/2009	2.11	<0.1	5.380	8.600	5.1	<0.050	--	294	3.480	846	-8	6.50		
5/28/2009	0.16	<0.1	5.340	2.400	8.7	<0.050	--	209	1.160	782	-75	6.59	BV (S2-, FE); DO measurement suspect	
3/4/2010	1.28	--	--	--	--	--	--	--	--	--	-92	6.80		
9/2/2010	0.70	--	--	--	--	--	--	--	--	--	230	6.90		
3/15/2011	0.69	--	--	--	--	--	--	--	--	--	-94	6.8		
MW-3														
4/20/1994	1.8	--	--	--	--	--	--	--	--	--	--	--	--	
8/1/1994	1.4	--	--	--	--	--	--	--	--	--	--	--	--	
12/23/1994	1.7	--	--	--	--	--	--	--	--	--	--	--	--	
1/26/1995	6.6	--	--	--	--	--	--	--	--	--	--	--	--	
6/8/1995	7	--	--	--	--	--	--	--	--	--	--	--	--	
8/22/1995	6.6	--	--	--	--	--	--	--	--	--	--	--	--	
10/30/1995	6.9	--	--	--	--	--	--	--	--	--	--	--	--	
4/19/1996	9.4	--	--	--	--	--	--	--	--	--	--	--	--	
7/23/1996	9.2	--	--	--	--	--	--	--	--	--	--	--	--	
11/11/1996	8.4	--	--	--	--	--	--	--	--	--	--	--	--	
1/21/1997	5.4	--	--	--	--	--	--	--	--	--	--	--	--	
4/29/1997	4.3	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/1997	4.9	--	--	--	--	--	--	--	--	--	--	--	--	
11/5/1997	4.5	--	--	--	--	--	--	--	--	--	--	--	--	
2/3/1998	4.7	--	--	--	--	--	--	--	--	--	--	--	--	
5/28/1998	4.2	--	--	--	--	--	--	--	--	--	--	--	--	
02/23/2004	--	--	--	--	--	--	--	--	--	--	--	6.7		
02/15/2005	--	--	--	--	--	--	--	--	--	--	--	7.5		
02/07/2006	--	--	--	--	--	--	--	--	--	--	--	7.1		

Table 4. Bio-Degradation Parameters
Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (mg/L)									Total Alkalinity	ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane				
MW-3 Cont.													
2/14/2007	0.68	--	--	--	--	--	--	--	--	--	--	7.52	
2/20/2008	2.58	--	--	--	--	--	--	--	--	--	--	7.06	
2/25/2009	3.45	1.6	0.0185	<0.100	29	<0.050	--	17.4	<0.0010	146	78	7.09	
3/4/2010	3.16	--	--	--	--	--	--	--	--	--	-10	7.06	
3/15/2011	3.14	--	--	--	--	--	--	--	--	--	75	7.2	
MW-4													
4/20/1994	2.2	--	--	--	--	--	--	--	--	--	--	--	
8/1/1994	1.9	--	--	--	--	--	--	--	--	--	--	--	
1/26/1995	7.5	--	--	--	--	--	--	--	--	--	--	--	
8/22/1995	6.4	--	--	--	--	--	--	--	--	--	--	--	
11/11/1996	8.2	--	--	--	--	--	--	--	--	--	--	--	
4/29/1997	4.7	--	--	--	--	--	--	--	--	--	--	--	
11/5/1997	4.9	--	--	--	--	--	--	--	--	--	--	--	
5/28/1998	4.2	--	--	--	--	--	--	--	--	--	--	--	
02/23/2004	--	--	--	--	--	--	--	--	--	--	--	6.8	
02/15/2005	--	--	--	--	--	--	--	--	--	--	--	7.6	
02/07/2006	--	--	--	--	--	--	--	--	--	--	--	6.8	
2/14/2007	0.95	--	--	--	--	--	--	--	--	--	--	7.34	
2/20/2008	2.13	--	--	--	--	--	--	--	--	--	--	6.93	
2/25/2009	2.80	3.8	<0.0050	<0.100	42	<0.050	--	44.1	<0.0010	244	-23	6.83	
3/4/2010	0.63	--	--	--	--	--	--	--	--	--	74	6.80	
3/15/2011	1.05	--	--	--	--	--	--	--	--	--	28	6.9	
MW-5													
4/20/1994	1.3	--	--	--	--	--	--	--	--	--	--	--	
8/1/1994	0.9	--	--	--	--	--	--	--	--	--	--	--	
12/23/1994	1.4	--	--	--	--	--	--	--	--	--	--	--	
1/26/1995	5.9	--	--	--	--	--	--	--	--	--	--	--	
6/8/1995	6.5	--	--	--	--	--	--	--	--	--	--	--	
8/22/1995	7.3	--	--	--	--	--	--	--	--	--	--	--	

Table 4. Bio-Degradation Parameters
Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (mg/L)									Total Alkalinity	ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane				
MW-5 Cont.													
10/30/1995	7.5	--	--	--	--	--	--	--	--	--	--	--	
4/19/1996	8.1	--	--	--	--	--	--	--	--	--	--	--	
7/23/1996	8	--	--	--	--	--	--	--	--	--	--	--	
11/11/1996	7.9	--	--	--	--	--	--	--	--	--	--	--	
1/21/1997	5	--	--	--	--	--	--	--	--	--	--	--	
4/29/1997	4.8	--	--	--	--	--	--	--	--	--	--	--	
8/21/1997	4.9	--	--	--	--	--	--	--	--	--	--	--	
11/5/1997	4.4	--	--	--	--	--	--	--	--	--	--	--	
2/3/1998	4.3	--	--	--	--	--	--	--	--	--	--	--	
5/28/1998	4.1	--	--	--	--	--	--	--	--	--	--	--	
02/23/2004	--	--	--	--	--	--	--	--	--	--	--	--	6.7
05/04/2004	--	--	--	--	--	--	--	--	--	--	--	--	6.6
08/04/2004	--	--	--	--	--	--	--	--	--	--	--	--	6.69
11/10/2004	--	--	--	--	--	--	--	--	--	--	--	--	7.5
02/15/2005	--	--	--	--	--	--	--	--	--	--	--	--	7.2
05/16/2005	--	--	--	--	--	--	--	--	--	--	--	--	6.7
08/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	6.6
11/18/2005	--	--	--	--	--	--	--	--	--	--	--	--	7.3
02/07/2006	--	--	--	--	--	--	--	--	--	--	--	--	6.7
5/19/2006	--	--	--	--	--	--	--	--	--	--	--	--	6.8
8/23/2006	--	--	--	--	--	--	--	--	--	--	--	--	7.11
11/15/2006	0.85	--	--	--	--	--	--	--	--	--	--	--	6.82
2/14/2007	2.54	--	--	--	--	--	--	--	--	--	--	--	7.24
5/22/2007	1.41	--	--	--	--	--	--	--	--	--	--	--	7.03
8/15/2007	3.81	--	--	--	--	--	--	--	--	--	--	--	7.14
11/8/2007	1.08	--	--	--	--	--	--	--	--	--	--	--	7.23
2/20/2008	2.01	--	--	--	--	--	--	--	--	--	--	--	6.84
5/7/2008	2.45	--	--	--	--	--	--	--	--	--	--	--	6.87
8/20/2008	5.57	0.11	6.310	<0.10	12	<0.050	--	1,660	0.0355	698	170	6.86	BV (S2-, FE)
2/25/2009	4.38	0.22	2.930	<0.100	7.7	<0.050	--	17.6	0.00133	352	23	6.65	BV (S2-, FE)
5/28/2009	0.04	<0.1	4.450	0.840	2.9	<0.050	--	145	0.128	898	-89	6.82	BV (S2-, FE); DO measurement suspect

Table 4. Bio-Degradation Parameters
Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (mg/L)									Total Alkalinity	ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane				
MW-5 Cont.													
8/6/2009	0.06	<0.1	5.820	<0.100	10	<0.050	--	139	0.00312	694	--	7.27	DO measurement suspect
3/4/2010	0.66	--	--	--	--	--	--	--	--	--	-69	6.87	
9/2/2010	0.75	--	--	--	--	--	--	--	--	--	190	6.75	
3/15/2011	0.85	--	--	--	--	--	--	--	--	--	-50	6.8	
MW-6													
4/20/1994	2	--	--	--	--	--	--	--	--	--	--	--	
8/1/1994	1.5	--	--	--	--	--	--	--	--	--	--	--	
1/26/1995	7.3	--	--	--	--	--	--	--	--	--	--	--	
8/22/1995	6.7	--	--	--	--	--	--	--	--	--	--	--	
11/11/1996	7.7	--	--	--	--	--	--	--	--	--	--	--	
4/29/1997	4.5	--	--	--	--	--	--	--	--	--	--	--	
11/5/1997	4.3	--	--	--	--	--	--	--	--	--	--	--	
5/28/1998	3.7	--	--	--	--	--	--	--	--	--	--	--	
05/16/2005	--	--	--	--	--	--	--	--	--	--	--	7.0	
02/07/2006	--	--	--	--	--	--	--	--	--	--	--	7.1	
2/14/2007	1.07	--	--	--	--	--	--	--	--	--	--	7.73	
2/20/2008	1.29	--	--	--	--	--	--	--	--	--	--	7.10	
2/25/2009	2.39	2.2	0.0176	<0.100	55	<0.050	--	23.4	<0.0010	196	16	7.09	
3/4/2010	0.88	--	--	--	--	--	--	--	--	--	4	7.01	
3/15/2011	1.43	--	--	--	--	--	--	--	--	--	74	7.1	
MW-7													
4/20/1994	1.5	--	--	--	--	--	--	--	--	--	--	--	
8/1/1994	1.9	--	--	--	--	--	--	--	--	--	--	--	
1/26/1995	7	--	--	--	--	--	--	--	--	--	--	--	
8/22/1995	6.4	--	--	--	--	--	--	--	--	--	--	--	
11/11/1996	7.8	--	--	--	--	--	--	--	--	--	--	--	
4/29/1997	4.4	--	--	--	--	--	--	--	--	--	--	--	
11/5/1997	4.4	--	--	--	--	--	--	--	--	--	--	--	
5/28/1998	4.3	--	--	--	--	--	--	--	--	--	--	--	

Table 4. Bio-Degradation Parameters
Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (mg/L)									Total Alkalinity	ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane				
MW-7 Cont.													
02/07/2006	--	--	--	--	--	--	--	--	--	--	--	7.3	
2/14/2007	3.08	--	--	--	--	--	--	--	--	--	--	7.30	
2/20/2008	4.34	--	--	--	--	--	--	--	--	--	--	7.09	
2/25/2009	4.28	1.2	0.0167	<0.100	16	<0.050	--	36	<0.0010	280	90	6.87	BV (S2-, FE)
3/4/2010	3.30	--	--	--	--	--	--	--	--	--	-36	7.02	
3/15/2011	4.05	--	--	--	--	--	--	--	--	--	8	7.0	
MW-8													
4/20/1994	1.1	--	--	--	--	--	--	--	--	--	--	--	
8/21/1997	5.2	--	--	--	--	--	--	--	--	--	--	--	
11/5/1997	5	--	--	--	--	--	--	--	--	--	--	--	
2/4/1998	5.5	--	--	--	--	--	--	--	--	--	--	--	
02/23/2004	--	--	--	--	--	--	--	--	--	--	--	6.6	
05/04/2004	--	--	--	--	--	--	--	--	--	--	--	7.0	
11/10/2004	--	--	--	--	--	--	--	--	--	--	--	7.3	
02/15/2005	--	--	--	--	--	--	--	--	--	--	--	7.2	
05/16/2005	--	--	--	--	--	--	--	--	--	--	--	6.5	
08/17/2005	--	--	--	--	--	--	--	--	--	--	--	6.7	
11/18/2005	--	--	--	--	--	--	--	--	--	--	--	6.9	
02/07/2006	--	--	--	--	--	--	--	--	--	--	--	6.6	
5/19/2006	--	--	--	--	--	--	--	--	--	--	--	6.6	
8/23/2006	--	--	--	--	--	--	--	--	--	--	--	7.35	
11/15/2006	0.81	--	--	--	--	--	--	--	--	--	--	6.91	
2/14/2007	1.89	--	--	--	--	--	--	--	--	--	--	7.13	
5/22/2007	1.05	--	--	--	--	--	--	--	--	--	--	6.99	
8/15/2007	3.93	--	--	--	--	--	--	--	--	--	--	7.08	
11/8/2007	1.29	--	--	--	--	--	--	--	--	--	--	7.14	
2/25/2009	2.18	0.1	4.140	3.000	4.7	<0.050	--	198	1.890	702	19	6.98	
5/28/2009	0.06	<0.1	3.040	1.500	2.2	<0.050	--	186	1.750	664	-41	6.78	BV (S2-, FE); DO measurement suspect
3/4/2010	0.82	--	--	--	--	--	--	--	--	--	63	6.72	
9/2/2010	0.56	--	--	--	--	--	--	--	--	--	199	6.75	

Table 4. Bio-Degradation Parameters
Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (mg/L)									Total Alkalinity	ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane				
MW-8 Cont.													
3/15/2011	0.90	--	--	--	--	--	--	--	--	--	-56	6.6	
MW-9													
4/20/1994	1.7	--	--	--	--	--	--	--	--	--	--	--	
4/30/1997	5.5	--	--	--	--	--	--	--	--	--	--	--	
8/21/1997	5.1	--	--	--	--	--	--	--	--	--	--	--	
11/5/1997	4.5	--	--	--	--	--	--	--	--	--	--	--	
2/3/1998	4.9	--	--	--	--	--	--	--	--	--	--	--	
5/28/1998	3.8	--	--	--	--	--	--	--	--	--	--	--	
11/18/2003	--	--	--	--	--	--	--	--	--	--	--	6.8	
02/23/2004	--	--	--	--	--	--	--	--	--	--	--	6.8	
05/04/2004	--	--	--	--	--	--	--	--	--	--	--	6.9	
11/10/2004	--	--	--	--	--	--	--	--	--	--	--	7.3	
02/15/2005	--	--	--	--	--	--	--	--	--	--	--	7.3	
05/16/2005	--	--	--	--	--	--	--	--	--	--	--	6.7	
08/17/2005	--	--	--	--	--	--	--	--	--	--	--	6.8	
11/18/2005	--	--	--	--	--	--	--	--	--	--	--	7.1	
02/07/2006	--	--	--	--	--	--	--	--	--	--	--	6.9	
8/23/2006	--	--	--	--	--	--	--	--	--	--	--	7.3	
11/15/2006	0.92	--	--	--	--	--	--	--	--	--	--	6.88	
2/14/2007	0.87	--	--	--	--	--	--	--	--	--	--	7.17	
5/22/2007	0.81	--	--	--	--	--	--	--	--	--	--	7.08	
8/15/2007	2.57	--	--	--	--	--	--	--	--	--	--	6.98	
11/8/2007	1.24	--	--	--	--	--	--	--	--	--	--	7.47	
11/17/2008	--	0.18	3.190	3.400	12	<0.050	--	19.5	1.290	480	139	6.64	DO meter not working
2/25/2009	2.27	<0.1	3.060	1.900	1.9	<0.050	--	156	1.960	554	-23	6.69	
5/28/2009	0.07	<0.1	2.730	0.900	3.8	<0.050	--	169	0.826	522	-73	6.83	BV (S2-, FE); DO measurement suspect
8/6/2009	0.00	0.39	2.680	2.500	15	<0.050	--	--	0.573	478	--	7.26	DO measurement suspect
3/4/2010	0.62	--	--	--	--	--	--	--	--	--	-83	6.84	
9/2/2010	0.46	--	--	--	--	--	--	--	--	--	214	6.85	
3/15/2011	1.07	--	--	--	--	--	--	--	--	--	-69	6.8	

Table 4. Bio-Degradation Parameters
Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (mg/L)									Total Alkalinity	ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane				
MW-10													
4/20/1994	1	--	--	--	--	--	--	--	--	--	--	--	
4/30/1997	5.6	--	--	--	--	--	--	--	--	--	--	--	
8/21/1997	5.3	--	--	--	--	--	--	--	--	--	--	--	
11/5/1997	4.4	--	--	--	--	--	--	--	--	--	--	--	
2/4/1998	5.1	--	--	--	--	--	--	--	--	--	--	--	
5/28/1998	4.8	--	--	--	--	--	--	--	--	--	--	--	
11/18/2003	--	--	--	--	--	--	--	--	--	--	--	6.8	
02/23/2004	--	--	--	--	--	--	--	--	--	--	--	6.7	
05/04/2004	--	--	--	--	--	--	--	--	--	--	--	7.1	
11/10/2004	--	--	--	--	--	--	--	--	--	--	--	7.3	
02/15/2005	--	--	--	--	--	--	--	--	--	--	--	7.2	
05/16/2005	--	--	--	--	--	--	--	--	--	--	--	6.7	
08/17/2005	--	--	--	--	--	--	--	--	--	--	--	6.7	
11/18/2005	--	--	--	--	--	--	--	--	--	--	--	6.8	
02/07/2006	--	--	--	--	--	--	--	--	--	--	--	6.8	
5/19/2006	--	--	--	--	--	--	--	--	--	--	--	6.9	
8/23/2006	--	--	--	--	--	--	--	--	--	--	--	6.97	
11/15/2006	0.65	--	--	--	--	--	--	--	--	--	--	6.78	
2/14/2007	2.12	--	--	--	--	--	--	--	--	--	--	7.05	
5/22/2007	0.06	--	--	--	--	--	--	--	--	--	--	7.10	
8/15/2007	3.09	--	--	--	--	--	--	--	--	--	--	7.09	
11/8/2007	1.47	--	--	--	--	--	--	--	--	--	--	7.95	
5/7/2008	2.18	--	--	--	--	--	--	--	--	--	--	6.98	
11/17/2008	--	<0.1	4.890	4.700	1.7	<0.050	--	283	1.720	686	160	6.54	DO meter not working
2/25/2009	4.06	0.29	4.530	3.700	13	<0.050	--	182	0.117	572	-33	6.68	BV (S2-, FE)
5/28/2009	0.03	<0.1	4.380	4.000	6.9	<0.050	--	657	0.618	634	-40	6.69	BV (S2-, FE); DO measurement suspect
8/6/2009	0.06	<0.1	4.770	0.130	1.7	<0.050	--	81.4	0.587	728	--	7.23	DO measurement suspect
3/4/2010	0.56	--	--	--	--	--	--	--	--	--	-115	6.81	
QC-2													

Table 4. Bio-Degradation Parameters
Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well and Sample Date	Concentrations in (mg/L)									Total Alkalinity	ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane				
RW-1													
8/1/1994	1.1	--	--	--	--	--	--	--	--	--	--	--	
12/23/1994	1.8	--	--	--	--	--	--	--	--	--	--	--	
8/22/1995	6.6	--	--	--	--	--	--	--	--	--	--	--	
10/30/1995	6.9	--	--	--	--	--	--	--	--	--	--	--	
4/19/1996	7.6	--	--	--	--	--	--	--	--	--	--	--	
7/23/1996	7.4	--	--	--	--	--	--	--	--	--	--	--	
11/11/1996	8.3	--	--	--	--	--	--	--	--	--	--	--	
1/21/1997	6.1	--	--	--	--	--	--	--	--	--	--	--	
4/29/1997	5.3	--	--	--	--	--	--	--	--	--	--	--	
8/21/1997	4.7	--	--	--	--	--	--	--	--	--	--	--	
11/5/1997	4.5	--	--	--	--	--	--	--	--	--	--	--	
2/3/1998	5.1	--	--	--	--	--	--	--	--	--	--	--	
5/28/1998	4.3	--	--	--	--	--	--	--	--	--	--	--	
11/18/2003	--	--	--	--	--	--	--	--	--	--	--	6.6	
11/17/2008	--	<0.1	0.581	0.990	<1	<0.050	--	35.8	3.780	94	108	6.47	DO meter not working
3/4/2010	1.24	--	--	--	--	--	--	--	--	--	-116	6.77	
9/2/2010	0.66	--	--	--	--	--	--	--	--	--	131	7.31	
3/15/2011	0.79	--	--	--	--	--	--	--	--	--	-41	7.0	

Symbols & Abbreviations:

< = Not detected at or above specified laboratory reporting limit

ORP = Oxygen reduction potential

DO = Dissolved oxygen

CO₂ = Carbon dioxide

S₂⁻ = Soluble Sulfide

mV = Millivolts

μg/L = Micrograms per liter

mg/L = Milligrams per liter

BV = Sample received after holding time expired

APPENDIX A
FIELD METHODS

BROADBENT & ASSOCIATES INC. FIELD PROCEDURES

A.1 QUALITY ASSURANCE/QUALITY CONTROL FIELD PROTOCOLS

Field protocols have been implemented to enhance the accuracy and reliability of data collection, ground-water sample collection, transportation and laboratory analysis. Discussion of these protocols is provided below.

A.1.1 Water Level & Free-Product Measurement

Prior to ground-water sample collection from each monitoring well, the presence of separate-phase hydrocarbons (SPH or free product, FP) and depth to ground water shall be measured. Depth to ground water will be measured with a standard water level indicator that has been decontaminated prior to its use in accordance with procedures discussed below. Depth to groundwater will be gauged from a saw cut notch at the top of the well casing on each well head. Where FP is suspected, the initial gauging will be done with an oil-water interface probe. Once depth to water has been measured, the first retrieval of a new disposable bailer will be scrutinized for the presence of SPH/FP.

A.1.2 Monitoring Well Purging

Subsequent to measuring depth to ground water and prior to the collection of ground-water samples, purging of standing water within the monitoring well will be performed if called for. Consistent with the American Society for Testing and Materials (ASTM) Standard D6452-99, Section 7.1, the well will be purged of approximately three wetted-casing volumes of water, or until the well is dewatered, or until monitored field parameters indicate stabilization. The well will be purged using a pre-cleaned disposable bailer or submersible pump and disposable plastic tubing dedicated to each individual well. The well will be purged at a low flow rate to minimize the possibility of purging the well dry. So that the sample collected is representative of formation water, several field parameters will be monitored during the purging process. The sample will not be collected until these parameters (i.e. temperature, pH, and conductivity) have stabilized to within 10% of the previously measured value. If a well is purged dry, the sample should not be collected until the well has recovered to a minimum 50% of its initial volume.

A.1.3 Ground-Water Sample Collection

Once the wells are satisfactorily purged, water samples will be collected from each well. Water samples for organic analyses will be collected using a pre-cleaned, new, disposable bailer and transferred into the appropriate, new, laboratory-prepared containers such that no head space or air bubbles are present in the sample container (if appropriate to the analysis). The samples will be properly labeled (i.e. sample identification, sampler initials, date/time of collection, site location, requested analyses), placed in an ice chest with bagged ice or ice substitute, and delivered to the contracted analytical laboratory.

A.1.4 Surface Water Sample Collection

Unless specified otherwise, surface water samples will be collected from mid-depth in the central area of the associated surface water body. Water samples will be collected into appropriate, new, laboratory-prepared containers by dipping the container into the surface water unless the container has a preservative present. If a sample preservative is present, a new, cleaned non-preserved surrogate container will be used to obtain the sample which will then be directly transferred into a new, laboratory-provided, preserved container. Samples will be properly labeled and transported as described above.

A.1.5 Decontamination Protocol

Prior to use in each well, re-usable ground-water sampling equipment (e.g., water level indicator, oil-interface probe, purge pump, etc.) will be decontaminated. Decontamination protocol will include thoroughly cleaning with a solution of Liquinox, rinsing with clean water, and final rinsing with control water (potable water of known quality, distilled, or de-ionized water). Pre-cleaned new disposable bailers and disposable plastic tubing will be dedicated to each individual well.

A.1.6 Chain of Custody Procedures

Sample identification documents will be carefully prepared so identification and chain of custody can be maintained and sample disposition can be controlled. The sample identification documents include Chain-of-Custody (COC) records and Daily Field Report forms. Chain of custody procedures are outlined below.

Field Custody Procedures

The field sampler is individually responsible for the care and custody of the samples collected until they are properly transferred.

Samples will have unique labels. The information on these labels will correspond to the COC which shows the identification of individual samples and the contents of the shipping container. The original COC will accompany the shipment and a copy will be retained by the field sampler.

Transfer of Custody and Shipment

A COC will accompany samples during transfer and shipment. When transferring samples, the individual relinquishing and the individual receiving the samples will each sign, date, and note the time on the COC. This documents the sample custody transfer.

Samples will be packaged properly for shipment and dispatched to the appropriate laboratory for analysis, with a separate COC accompanying each shipment. Shipments will be accompanied by the original COC. Samples will be delivered by BAI personnel to the laboratory, or shipped by responsible courier. When a shipping courier is utilized, the sample shipment number will be identified on the COC.

A.1.7 Field Records

In addition to sample identification numbers and COC records, Daily Field Report records will be maintained by field staff to provide daily records of significant events, observations, and measurements during field investigations. These documents will contain observed information such as: the personnel present, site conditions, sampling procedures, measurement procedures, calibration records, equipment used, supplies used, etc. Field measurements will be recorded on the appropriate forms. Entries on the data forms will be signed and dated. The data forms will be kept as permanent file records.

APPENDIX B

FIELD DATA SHEETS

Project: ARCAOES 11/32 Project No.: 09-88-655
Field Representative(s): SB Day: Tuesday Date: 3/15/11
Time Onsite: From: 0810 To: 1350; From: _____ To: _____; From: _____ To: _____

- Signed HASP Safety Glasses Hard Hat Steel Toe Boots Safety Vest
 UST Emergency System Shut-off Switches Located Proper Gloves
 Proper Level of Barricading Other PPE (describe) _____

Weather: Cloudy / Rain

Equipment In Use: _____

Visitors: _____

TIME:

WORK DESCRIPTION:

TIME	WORK DESCRIPTION
0810	on-site open all wells prior to sampling
0855	Set up on MW-8 Sampled @ 0915
0925	Set up on MW-5 Sampled @ 0945
0950	Set up on MW-10 Sampled @ No sample. Product found in well about 2 mm thick.
1008	Set up on MW-7 Sampled @ 1025
1034	Set up on MW-6 Sampled @ 1050
1056	Set up on MW-9 Sampled @ 1110
1130	Set up on MW-4 Sampled @ 1150
1155	Set up on MW-3 Sampled @ 1215
1223	Set up on MW-2 Sampled @ 1240
1250	Set up on MW-1 Sampled @ 1320
1328	Set up on MW-1 Sampled @ 1340
1350	left site

Signature: _____

DATE: 3/15/11
PERSONNEL: SB
WEATHER: Cloudy/Rain

PROJECT NO.: 09-88-658
COMMENTS: BD 11132

Well ID	Time	MEASURING POINT	DTW (FT)	PRODUCT THICKNESS	Equipment & Parameters							WELL HEAD CONDITION: VAULT, BOLTS, CAP, LOCK, ETC						
					Equip:	Geosquirt	Tubing	Bailers	DO	wli	Ec/pH		pH	Cond. (X100)	Temp. (C/F)	DO (mg/l)	Redox (mV)	Iron (mg/l)
mw-1	1329		14.99															
mw-2	1728		13.70															
mw-3	1200		11.77															
mw-4	1135		16.47															
mw-5	0928		11.36															
mw-6	1037		10.08															
mw-7	10.10		14.86															
mw-8	0858		11.03															
mw-9	1058		11.08															
mw-10	0953		13.20															
mw-1	1253		13.20	13.03														

Groundwater Sampling Data Sheet

Well I.D.: mw-1
 Project Name/Location: BP11132 Project #: 09-88-655
 Sampler's Name: SB Date: 3/15/91
 Purging Equipment: boiler
 Sampling Equipment: boiler

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 33.25 feet
 Depth to Water: 14.99 feet
 Water Column Thickness: 18.26 feet
 Unit Casing Volume*: x 0.10 gallon / foot
 Casing Water Volume: = 2.9 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 8.8 gallons

***UNIT CASING VOLUMES**
 2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present): Sheen

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1331	0.85	-95	—	395.1	65.8	7.1	
1	1335	X	X	X	405.6	67.4	7.0	
2	1337	X	X	X	415.8	68.0	7.0	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 2.0 gallons
 Depth to Water at Sample Collection: — feet
 Sample Collection Time: 1340

Purged Dry? (Y/N) (N)

Comments:



Groundwater Sampling Data Sheet

Well I.D.: mw-2
 Project Name/Location: BP 11132 Project #: 09-88-655
 Sampler's Name: SB Date: 3/15/11
 Purging Equipment: boiler
 Sampling Equipment: boiler

Casing Type: PVC

Casing Diameter: 2 inch
 Total Well Depth: 31.60 feet
 Depth to Water: 13.70 feet
 Water Column Thickness: = 0.16 feet 17.9
 Unit Casing Volume*: x 0.16 gallon / foot
 Casing Water Volume: = 2.86 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 8.59 gallons

***UNIT CASING VOLUMES**

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present): Sheen

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1229	0.69	-94	—	1436	67.2	6.9	
1	1233	X	X	X	1495	67.6	6.8	
2	1236	X	X	X	1494	67.8	6.8	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 8.0 gallons
 Depth to Water at Sample Collection: — feet
 Sample Collection Time: 12:40 Purged Dry? (Y/N) (N)

Comments: HC odor

Groundwater Sampling Data Sheet

Well I.D.: MW 3
 Project Name/Location: BP 11132 Project #: 09-48-655
 Sampler's Name: SB Date: 3/15/11
 Purging Equipment: bucket
 Sampling Equipment: bucket

Casing Type: PVC

Casing Diameter: 2 inch

***UNIT CASING VOLUMES**

Total Well Depth: 34.45 feet

2" = 0.16 gal/lin ft.

Depth to Water: 11.77 feet

3" = 0.37 gal/lin ft.

Water Column Thickness: = 22.68 feet

4" = 0.65 gal/lin ft.

Unit Casing Volume*: x 0.16 gallon / foot

6" = 1.47 gal/lin ft.

Casing Water Volume: = 3.62 gallons

Casing Volume: x 3 each

Estimated Purge Volume: = 10.8 gallons

Free product measurement (if present): _____

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1203	3.14	75	—	414.0	67.3	7.3	
1	1207	X	X	X	411.8	67.8	7.2	
2	1210	X	X	X	415.7	67.9	7.2	
3	1212	X	X	X	420.2	68.3	7.2	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.0 gallons

Depth to Water at Sample Collection: 2 feet

Sample Collection Time: 1215

Purged Dry? (Y/N) (N)

Comments:

Groundwater Sampling Data Sheet

Well I.D.: mw-4
 Project Name/Location: BP 11137 Project #: 09-88-655
 Sampler's Name: SB Date: 3/15/11
 Purging Equipment: bailler
 Sampling Equipment: bailler

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 40.84 feet
 Depth to Water: 10.47 feet
 Water Column Thickness: 21.37 feet
 Unit Casing Volume*: x 0.16 gallon / foot
 Casing Water Volume: = 3.81 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 11.7 gallons

***UNIT CASING VOLUMES**

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1138	1.05	28	—	758.2	67.4	6.9	
1	1140	X	X	X	773.7	68.4	6.9	
2	1144	X	X	X	786.8	68.6	6.9	
3	1146	X	X	X	797.1	68.8	6.9	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.0 gallons

Depth to Water at Sample Collection: — feet

Sample Collection Time: 1150

Purged Dry? (Y/N) (N)

Comments:

Groundwater Sampling Data Sheet

Well I.D.: MW-5
 Project Name/Location: BP 11132 Project #: 09-58-655
 Sampler's Name: SS Date: 3/15/11
 Purging Equipment: boiler
 Sampling Equipment: boiler

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 32.10 feet
 Depth to Water: 11.30 feet
 Water Column Thickness: = 20.74 feet
 Unit Casing Volume*: x 0.16 gallon / foot
 Casing Water Volume: = 3.3 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 9.9 gallons

***UNIT CASING VOLUMES**

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	0932	0.85	-50	—	1590	66.0	6.8	
1	0935	X	X	X	1588	67.1	6.8	
2	0936	X	X	X	1586	67.6	6.8	
3	0938	X	X	X	1583	67.8	6.8	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.0 gallons

Depth to Water at Sample Collection: _____ feet

Sample Collection Time: 0945

Purged Dry? (Y/N) (N)

Comments: HC odor

Groundwater Sampling Data Sheet

Well I.D.: MW-6
 Project Name/Location: BP 11132 Project #: 09-48-600
 Sampler's Name: SR Date: 3/15/11
 Purging Equipment: boiler
 Sampling Equipment: boiler

Casing Type: PVC

Casing Diameter: 2 inch

***UNIT CASING VOLUMES**

Total Well Depth: 34.40 feet

2" = 0.16 gal/lin ft.

Depth to Water: 10.08 feet

3" = 0.37 gal/lin ft.

Water Column Thickness: = 24.32 feet

4" = 0.65 gal/lin ft.

Unit Casing Volume*: x 0.16 gallon / foot

6" = 1.47 gal/lin ft.

Casing Water Volume: = 3.89 gallons

Casing Volume: x 3 each

Estimated Purge Volume: = 11.6 gallons

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1038	1.43	74	—	539.3	63.5	7.2	
1	1041	X	X	X	536.6	64.9	7.1	
2	1043	X	X	X	535.8	65.8	7.1	
3	1045	X	X	X	535.8	66.1	7.1	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.0 gallons

Depth to Water at Sample Collection: _____ feet

Sample Collection Time: 1050

Purged Dry? (Y/N) N

Comments:

Groundwater Sampling Data Sheet

Well I.D.: MW-7
 Project Name/Location: BP 11133
 Sampler's Name: SR Project #: 09-88-655
 Purging Equipment: boiler Date: 3/15/11
 Sampling Equipment: boiler

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 34.80 feet
 Depth to Water: 14.80 feet
 Water Column Thickness: 19.94 feet
 Unit Casing Volume*: x 0.16 gallon / foot
 Casing Water Volume: = 3.19 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 9.5 gallons

***UNIT CASING VOLUMES**

- 2" = 0.16 gal/lin ft.
- 3" = 0.37 gal/lin ft.
- 4" = 0.65 gal/lin ft.
- 6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1014	4.05	8	-	621.9	63.9	7.3	
1	1018	X	X	X	637.6	65.1	7.2	
2	1020	X	X	X	765.0	65.4	7.1	
3	1022	X	X	X	813.8	65.7	7.0	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.0 gallons
 Depth to Water at Sample Collection: feet
 Sample Collection Time: 1025

Purged Dry? (Y/N) N

Comments:

Groundwater Sampling Data Sheet

Well I.D.: MW-8

Project Name/Location: BP 11132

Project #: 09-26655

Sampler's Name: SB

Date: 3/15/11

Purging Equipment: boiler

Sampling Equipment: boiler

Casing Type: PVC

Casing Diameter: 2 inch

***UNIT CASING VOLUMES**

Total Well Depth: 34.84 feet

2" = 0.16 gal/lin ft.

Depth to Water: - 11.03 feet

3" = 0.37 gal/lin ft.

Water Column Thickness: = 23.81 feet

4" = 0.65 gal/lin ft.

Unit Casing Volume*: x 0.16 gallon / foot

6" = 1.47 gal/lin ft.

Casing Water Volume: = 3.80 gallons

Casing Volume: x 3 each

Estimated Purge Volume: = 11.4 gallons

Free product measurement (if present): Sheen

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	0902	0.90	-56	—	1291	63.7	8.6.7	
1	0905	X	X	X	1295	64.8	6.6	
2	0907	X	X	X	1305	65.4	6.6	
3	0909	X	X	X	1303	65.6	6.6	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.0 gallons

Depth to Water at Sample Collection: _____ feet

Sample Collection Time: 0915

Purged Dry? (Y/N) (N)

Comments: HC odor



BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: MW-9
 Project Name/Location: BP 11132 Project #: 09-58655
 Sampler's Name: SB Date: 3/15/11
 Purging Equipment: bailey
 Sampling Equipment: bailey

Casing Type: PVC

Casing Diameter: 2 inch

Total Well Depth: 27.75 feet

Depth to Water: 11.08 feet

Water Column Thickness: 16.67 feet

Unit Casing Volume*: x 0.16 gallon / foot

Casing Water Volume: = 2.66 gallons

Casing Volume: x 3 each

Estimated Purge Volume: = 8.0 gallons

*UNIT CASING VOLUMES

2" = 0.16 gal/lin ft.

3" = 0.37 gal/lin ft.

4" = 0.65 gal/lin ft.

6" = 1.47 gal/lin ft.

Free product measurement (if present): Sheen

Purged (gallons)	Time (24:00)	DO (mg/L)	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1101	1.07	-69	—	850.7	64.6	6.9	
1	1104	X	X	X	884.1	66.5	6.8	
2	1106	X	X	X	891.6	66.9	6.8	
3	1108	X	X	X	899.3	67.3	6.8	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.0 gallons

Depth to Water at Sample Collection: 11.08 feet

Sample Collection Time: 1110

Purged Dry? (Y/N) (N)

Comments: HC odor

Groundwater Sampling Data Sheet

Well I.D.: MW-10
 Project Name/Location: DP 1N32 Project #: 09-88-655
 Sampler's Name: SD Date: 3/15/11
 Purging Equipment: bauler
 Sampling Equipment: bauler

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 39.15 feet
 Depth to Water: - 13.20 feet
 Water Column Thickness: = 20.95 feet
 Unit Casing Volume*: x 0.16 gallon / foot
 Casing Water Volume: = 3.35 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 10.0 gallons

***UNIT CASING VOLUMES**

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present): 2mm thick

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: _____ gallons

Depth to Water at Sample Collection: _____ feet

Sample Collection Time: no sample Purged Dry? (Y/N)

Comments: interface water did not sound, but I drop a
bauler in well to gauge and sound product,
Brown oily-like product

Groundwater Sampling Data Sheet

Well I.D.: RW-1
 Project Name/Location: BP 11132 Project #: 0428-685
 Sampler's Name: SD Date: 3/15/11
 Purging Equipment: builer
 Sampling Equipment: builer

Casing Type: PVC

Casing Diameter: 6 inch
 Total Well Depth: 39.00 feet
 Depth to Water: 13.03 feet
 Water Column Thickness: 25.97 feet
 Unit Casing Volume*: 1.47 gallon / foot
 Casing Water Volume: 38.1 gallons
 Casing Volume: 3 each
 Estimated Purge Volume: 114.5 gallons

***UNIT CASING VOLUMES**

2" = 0.16 gal/lin ft.
 3" = 0.37 gal/lin ft.
 4" = 0.65 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1256	0.79	-41	—	102.4	64.1	7.1	
5	1305	X	X	X	84.33	66.8	7.1	
10	1308	X	X	X	93.72	67.1	7.0	
15	1311	X	X	X	112.7	67.4	7.0	
20	1314	X	X	X	122.1	67.0	7.0	
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 20 gallons
 Depth to Water at Sample Collection: feet
 Sample Collection Time: 1320

Purged Dry? (Y/N) (N)

Comments:

APPENDIX C

**LABORATORY REPORT
AND CHAIN-OF-CUSTODY DOCUMENTATION**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

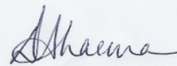
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-33879-1
Client Project/Site: BP #11132, Oakland

For:
ARCADIS U.S., Inc.
155 Montgomery Street
Suite 1500
San Francisco, California 94104

Attn: Project Manager Hollis Phillips



Authorized for release by:
03/17/2011 05:12:12 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project
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Have a Question?



Visit us at:
www.testamericainc.com

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.

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Qualifier Definition/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Job ID: 720-33879-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-33879-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-1

Lab Sample ID: 720-33879-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	16		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Ethylbenzene	56		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Xylenes, Total	30		10		ug/L	10		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	4500		500		ug/L	10		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 720-33879-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	500		100		ug/L	200		8260B/CA_LUFTM	Total/NA
Benzene	12000		100		ug/L	200		8260B/CA_LUFTM	Total/NA
Ethylbenzene	4100		100		ug/L	200		8260B/CA_LUFTM	Total/NA
Toluene	2900		100		ug/L	200		8260B/CA_LUFTM	Total/NA
Xylenes, Total	15000		200		ug/L	200		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	63000		10000		ug/L	200		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 720-33879-3

No Detections.

Client Sample ID: MW-4

Lab Sample ID: 720-33879-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	26		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
TBA	4.1		4.0		ug/L	1		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 720-33879-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	5.9		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Benzene	410		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Ethylbenzene	88		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Toluene	7.9		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Xylenes, Total	80		1.0		ug/L	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	1700		500		ug/L	10		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 720-33879-6

No Detections.

Client Sample ID: MW-7

Lab Sample ID: 720-33879-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	990		10		ug/L	20		8260B/CA_LUFTM	Total/NA
1,2-DCA	0.81		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
TBA	130		4.0		ug/L	1		8260B/CA_LUFTM	Total/NA
TAME	17		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 720-33879-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	470		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Ethylbenzene	1400		25		ug/L	50		8260B/CA_LUFTM	Total/NA

Detection Summary

Client: ARCADIS U.S., Inc.
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-8 (Continued)

Lab Sample ID: 720-33879-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	150		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Xylenes, Total	3000		50		ug/L	50		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	14000		2500		ug/L	50		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 720-33879-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	17		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Ethylbenzene	150		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Xylenes, Total	73		5.0		ug/L	5		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	6500		250		ug/L	5		8260B/CA_LUFTM	Total/NA

Client Sample ID: RW-1

Lab Sample ID: 720-33879-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	6.7		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Benzene	3.7		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Ethylbenzene	44		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Xylenes, Total	31		5.0		ug/L	5		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	7000		250		ug/L	5		8260B/CA_LUFTM	Total/NA

Analytical Data

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-1

Lab Sample ID: 720-33879-1

Date Collected: 03/15/11 13:40

Matrix: Water

Date Received: 03/15/11 14:48

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	16		5.0		ug/L			03/15/11 20:23	10
Benzene	ND		5.0		ug/L			03/15/11 20:23	10
EDB	ND		5.0		ug/L			03/15/11 20:23	10
1,2-DCA	ND		5.0		ug/L			03/15/11 20:23	10
Ethylbenzene	56		5.0		ug/L			03/15/11 20:23	10
Toluene	ND		5.0		ug/L			03/15/11 20:23	10
Xylenes, Total	30		10		ug/L			03/15/11 20:23	10
Gasoline Range Organics (GRO)	4500		500		ug/L			03/15/11 20:23	10
-C6-C12									
TBA	ND		40		ug/L			03/15/11 20:23	10
Ethanol	ND		2500		ug/L			03/15/11 20:23	10
DIPE	ND		5.0		ug/L			03/15/11 20:23	10
TAME	ND		5.0		ug/L			03/15/11 20:23	10
Ethyl t-butyl ether	ND		5.0		ug/L			03/15/11 20:23	10

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		67 - 130		03/15/11 20:23	10
1,2-Dichloroethane-d4 (Surr)	108		67 - 130		03/15/11 20:23	10
Toluene-d8 (Surr)	101		70 - 130		03/15/11 20:23	10

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Analytical Data

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-2

Lab Sample ID: 720-33879-2

Date Collected: 03/15/11 12:40

Matrix: Water

Date Received: 03/15/11 14:48

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	500		100		ug/L			03/15/11 20:56	200
Benzene	12000		100		ug/L			03/15/11 20:56	200
EDB	ND		100		ug/L			03/15/11 20:56	200
1,2-DCA	ND		100		ug/L			03/15/11 20:56	200
Ethylbenzene	4100		100		ug/L			03/15/11 20:56	200
Toluene	2900		100		ug/L			03/15/11 20:56	200
Xylenes, Total	15000		200		ug/L			03/15/11 20:56	200
Gasoline Range Organics (GRO)	63000		10000		ug/L			03/15/11 20:56	200
-C6-C12									
TBA	ND		800		ug/L			03/15/11 20:56	200
Ethanol	ND		50000		ug/L			03/15/11 20:56	200
DIPE	ND		100		ug/L			03/15/11 20:56	200
TAME	ND		100		ug/L			03/15/11 20:56	200
Ethyl t-butyl ether	ND		100		ug/L			03/15/11 20:56	200

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		67 - 130		03/15/11 20:56	200
1,2-Dichloroethane-d4 (Surr)	102		67 - 130		03/15/11 20:56	200
Toluene-d8 (Surr)	101		70 - 130		03/15/11 20:56	200

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Analytical Data

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-3

Lab Sample ID: 720-33879-3

Date Collected: 03/15/11 12:15

Matrix: Water

Date Received: 03/15/11 14:48

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			03/15/11 21:27	1
Benzene	ND		0.50		ug/L			03/15/11 21:27	1
EDB	ND		0.50		ug/L			03/15/11 21:27	1
1,2-DCA	ND		0.50		ug/L			03/15/11 21:27	1
Ethylbenzene	ND		0.50		ug/L			03/15/11 21:27	1
Toluene	ND		0.50		ug/L			03/15/11 21:27	1
Xylenes, Total	ND		1.0		ug/L			03/15/11 21:27	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			03/15/11 21:27	1
TBA	ND		4.0		ug/L			03/15/11 21:27	1
Ethanol	ND		250		ug/L			03/15/11 21:27	1
DIPE	ND		0.50		ug/L			03/15/11 21:27	1
TAME	ND		0.50		ug/L			03/15/11 21:27	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/15/11 21:27	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		67 - 130					03/15/11 21:27	1
1,2-Dichloroethane-d4 (Surr)	106		67 - 130					03/15/11 21:27	1
Toluene-d8 (Surr)	100		70 - 130					03/15/11 21:27	1

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Analytical Data

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-4

Lab Sample ID: 720-33879-4

Date Collected: 03/15/11 11:50

Matrix: Water

Date Received: 03/15/11 14:48

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	26		0.50		ug/L			03/15/11 23:04	1
Benzene	ND		0.50		ug/L			03/15/11 23:04	1
EDB	ND		0.50		ug/L			03/15/11 23:04	1
1,2-DCA	ND		0.50		ug/L			03/15/11 23:04	1
Ethylbenzene	ND		0.50		ug/L			03/15/11 23:04	1
Toluene	ND		0.50		ug/L			03/15/11 23:04	1
Xylenes, Total	ND		1.0		ug/L			03/15/11 23:04	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			03/15/11 23:04	1
TBA	4.1		4.0		ug/L			03/15/11 23:04	1
Ethanol	ND		250		ug/L			03/15/11 23:04	1
DIPE	ND		0.50		ug/L			03/15/11 23:04	1
TAME	ND		0.50		ug/L			03/15/11 23:04	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/15/11 23:04	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130					03/15/11 23:04	1
1,2-Dichloroethane-d4 (Surr)	107		67 - 130					03/15/11 23:04	1
Toluene-d8 (Surr)	99		70 - 130					03/15/11 23:04	1



Analytical Data

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-5

Lab Sample ID: 720-33879-5

Date Collected: 03/15/11 09:45

Matrix: Water

Date Received: 03/15/11 14:48

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	5.9		0.50		ug/L			03/15/11 23:36	1
Benzene	410		5.0		ug/L			03/16/11 13:37	10
EDB	ND		0.50		ug/L			03/15/11 23:36	1
1,2-DCA	ND		0.50		ug/L			03/15/11 23:36	1
Ethylbenzene	88		0.50		ug/L			03/15/11 23:36	1
Toluene	7.9		0.50		ug/L			03/15/11 23:36	1
Xylenes, Total	80		1.0		ug/L			03/15/11 23:36	1
Gasoline Range Organics (GRO)	1700		500		ug/L			03/16/11 13:37	10
-C6-C12									
TBA	ND		4.0		ug/L			03/15/11 23:36	1
Ethanol	ND		250		ug/L			03/15/11 23:36	1
DIPE	ND		0.50		ug/L			03/15/11 23:36	1
TAME	ND		0.50		ug/L			03/15/11 23:36	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/15/11 23:36	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		67 - 130		03/15/11 23:36	1
4-Bromofluorobenzene	102		67 - 130		03/16/11 13:37	10
1,2-Dichloroethane-d4 (Surr)	110		67 - 130		03/15/11 23:36	1
1,2-Dichloroethane-d4 (Surr)	104		67 - 130		03/16/11 13:37	10
Toluene-d8 (Surr)	102		70 - 130		03/15/11 23:36	1
Toluene-d8 (Surr)	99		70 - 130		03/16/11 13:37	10

Analytical Data

Client: ARCADIS U.S., Inc.
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-6

Lab Sample ID: 720-33879-6

Date Collected: 03/15/11 10:50

Matrix: Water

Date Received: 03/15/11 14:48

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			03/16/11 00:07	1
Benzene	ND		0.50		ug/L			03/16/11 00:07	1
EDB	ND		0.50		ug/L			03/16/11 00:07	1
1,2-DCA	ND		0.50		ug/L			03/16/11 00:07	1
Ethylbenzene	ND		0.50		ug/L			03/16/11 00:07	1
Toluene	ND		0.50		ug/L			03/16/11 00:07	1
Xylenes, Total	ND		1.0		ug/L			03/16/11 00:07	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			03/16/11 00:07	1
TBA	ND		4.0		ug/L			03/16/11 00:07	1
Ethanol	ND		250		ug/L			03/16/11 00:07	1
DIPE	ND		0.50		ug/L			03/16/11 00:07	1
TAME	ND		0.50		ug/L			03/16/11 00:07	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/16/11 00:07	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130					03/16/11 00:07	1
1,2-Dichloroethane-d4 (Surr)	103		67 - 130					03/16/11 00:07	1
Toluene-d8 (Surr)	98		70 - 130					03/16/11 00:07	1

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Analytical Data

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-7

Lab Sample ID: 720-33879-7

Date Collected: 03/15/11 10:25

Matrix: Water

Date Received: 03/15/11 14:48

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	990		10		ug/L			03/16/11 14:07	20
Benzene	ND		0.50		ug/L			03/16/11 00:40	1
EDB	ND		0.50		ug/L			03/16/11 00:40	1
1,2-DCA	0.81		0.50		ug/L			03/16/11 00:40	1
Ethylbenzene	ND		0.50		ug/L			03/16/11 00:40	1
Toluene	ND		0.50		ug/L			03/16/11 00:40	1
Xylenes, Total	ND		1.0		ug/L			03/16/11 00:40	1
Gasoline Range Organics (GRO) -C6-C12	ND		1000		ug/L			03/16/11 14:07	20
TBA	130		4.0		ug/L			03/16/11 00:40	1
Ethanol	ND		250		ug/L			03/16/11 00:40	1
DIPE	ND		0.50		ug/L			03/16/11 00:40	1
TAME	17		0.50		ug/L			03/16/11 00:40	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/16/11 00:40	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		67 - 130					03/16/11 00:40	1
4-Bromofluorobenzene	100		67 - 130					03/16/11 14:07	20
1,2-Dichloroethane-d4 (Surr)	104		67 - 130					03/16/11 00:40	1
1,2-Dichloroethane-d4 (Surr)	104		67 - 130					03/16/11 14:07	20
Toluene-d8 (Surr)	98		70 - 130					03/16/11 00:40	1
Toluene-d8 (Surr)	98		70 - 130					03/16/11 14:07	20

Analytical Data

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-8

Lab Sample ID: 720-33879-8

Date Collected: 03/15/11 09:15

Matrix: Water

Date Received: 03/15/11 14:48

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		2.5		ug/L			03/16/11 01:13	5
Benzene	470		2.5		ug/L			03/16/11 01:13	5
EDB	ND		2.5		ug/L			03/16/11 01:13	5
1,2-DCA	ND		2.5		ug/L			03/16/11 01:13	5
Ethylbenzene	1400		25		ug/L			03/16/11 16:10	50
Toluene	150		2.5		ug/L			03/16/11 01:13	5
Xylenes, Total	3000		50		ug/L			03/16/11 16:10	50
Gasoline Range Organics (GRO) -C6-C12	14000		2500		ug/L			03/16/11 16:10	50
TBA	ND		20		ug/L			03/16/11 01:13	5
Ethanol	ND		1200		ug/L			03/16/11 01:13	5
DIPE	ND		2.5		ug/L			03/16/11 01:13	5
TAME	ND		2.5		ug/L			03/16/11 01:13	5
Ethyl t-butyl ether	ND		2.5		ug/L			03/16/11 01:13	5

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		67 - 130		03/16/11 01:13	5
4-Bromofluorobenzene	102		67 - 130		03/16/11 16:10	50
1,2-Dichloroethane-d4 (Surr)	105		67 - 130		03/16/11 01:13	5
1,2-Dichloroethane-d4 (Surr)	104		67 - 130		03/16/11 16:10	50
Toluene-d8 (Surr)	101		70 - 130		03/16/11 01:13	5
Toluene-d8 (Surr)	98		70 - 130		03/16/11 16:10	50

Analytical Data

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-9

Lab Sample ID: 720-33879-9

Date Collected: 03/15/11 11:10

Matrix: Water

Date Received: 03/15/11 14:48

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		2.5		ug/L			03/16/11 01:45	5
Benzene	17		2.5		ug/L			03/16/11 01:45	5
EDB	ND		2.5		ug/L			03/16/11 01:45	5
1,2-DCA	ND		2.5		ug/L			03/16/11 01:45	5
Ethylbenzene	150		2.5		ug/L			03/16/11 01:45	5
Toluene	ND		2.5		ug/L			03/16/11 01:45	5
Xylenes, Total	73		5.0		ug/L			03/16/11 16:40	5
Gasoline Range Organics (GRO) -C6-C12	6500		250		ug/L			03/16/11 01:45	5
TBA	ND		20		ug/L			03/16/11 01:45	5
Ethanol	ND		1200		ug/L			03/16/11 01:45	5
DIPE	ND		2.5		ug/L			03/16/11 01:45	5
TAME	ND		2.5		ug/L			03/16/11 01:45	5
Ethyl t-butyl ether	ND		2.5		ug/L			03/16/11 01:45	5

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		67 - 130		03/16/11 01:45	5
4-Bromofluorobenzene	103		67 - 130		03/16/11 16:40	5
1,2-Dichloroethane-d4 (Surr)	104		67 - 130		03/16/11 01:45	5
1,2-Dichloroethane-d4 (Surr)	105		67 - 130		03/16/11 16:40	5
Toluene-d8 (Surr)	101		70 - 130		03/16/11 01:45	5
Toluene-d8 (Surr)	99		70 - 130		03/16/11 16:40	5

Analytical Data

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: RW-1

Lab Sample ID: 720-33879-10

Date Collected: 03/15/11 13:20

Matrix: Water

Date Received: 03/15/11 14:48

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	6.7		2.5		ug/L			03/16/11 02:17	5
Benzene	3.7		2.5		ug/L			03/16/11 02:17	5
EDB	ND		2.5		ug/L			03/16/11 02:17	5
1,2-DCA	ND		2.5		ug/L			03/16/11 02:17	5
Ethylbenzene	44		2.5		ug/L			03/16/11 02:17	5
Toluene	ND		2.5		ug/L			03/16/11 02:17	5
Xylenes, Total	31		5.0		ug/L			03/16/11 17:11	5
Gasoline Range Organics (GRO) -C6-C12	7000		250		ug/L			03/16/11 02:17	5
TBA	ND		20		ug/L			03/16/11 02:17	5
Ethanol	ND		1200		ug/L			03/16/11 02:17	5
DIPE	ND		2.5		ug/L			03/16/11 02:17	5
TAME	ND		2.5		ug/L			03/16/11 02:17	5
Ethyl t-butyl ether	ND		2.5		ug/L			03/16/11 02:17	5

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130		03/16/11 02:17	5
4-Bromofluorobenzene	108		67 - 130		03/16/11 17:11	5
1,2-Dichloroethane-d4 (Surr)	101		67 - 130		03/16/11 02:17	5
1,2-Dichloroethane-d4 (Surr)	104		67 - 130		03/16/11 17:11	5
Toluene-d8 (Surr)	100		70 - 130		03/16/11 02:17	5
Toluene-d8 (Surr)	101		70 - 130		03/16/11 17:11	5

Quality Control Data

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-87721/4

Matrix: Water

Analysis Batch: 87721

Client Sample ID: MB 720-87721/4

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MTBE	ND		0.50		ug/L			03/15/11 17:08	1
Benzene	ND		0.50		ug/L			03/15/11 17:08	1
EDB	ND		0.50		ug/L			03/15/11 17:08	1
1,2-DCA	ND		0.50		ug/L			03/15/11 17:08	1
Ethylbenzene	ND		0.50		ug/L			03/15/11 17:08	1
Toluene	ND		0.50		ug/L			03/15/11 17:08	1
m-Xylene & p-Xylene	ND		1.0		ug/L			03/15/11 17:08	1
o-Xylene	ND		0.50		ug/L			03/15/11 17:08	1
Xylenes, Total	ND		1.0		ug/L			03/15/11 17:08	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			03/15/11 17:08	1
TBA	ND		4.0		ug/L			03/15/11 17:08	1
Ethanol	ND		250		ug/L			03/15/11 17:08	1
DIPE	ND		0.50		ug/L			03/15/11 17:08	1
TAME	ND		0.50		ug/L			03/15/11 17:08	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/15/11 17:08	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	100		67 - 130		03/15/11 17:08	1
1,2-Dichloroethane-d4 (Surr)	105		67 - 130		03/15/11 17:08	1
Toluene-d8 (Surr)	100		70 - 130		03/15/11 17:08	1

Lab Sample ID: LCS 720-87721/5

Matrix: Water

Analysis Batch: 87721

Client Sample ID: LCS 720-87721/5

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	25.0	27.0		ug/L		108	82 - 127
EDB	25.0	27.8		ug/L		111	70 - 130
1,2-DCA	25.0	26.9		ug/L		108	70 - 126
Ethylbenzene	25.0	27.0		ug/L		108	86 - 135
Toluene	25.0	26.5		ug/L		106	83 - 129
m-Xylene & p-Xylene	50.0	53.8		ug/L		108	70 - 142
o-Xylene	25.0	28.0		ug/L		112	89 - 136
TBA	500	487		ug/L		97	82 - 116
Ethanol	500	569		ug/L		114	31 - 216
DIPE	25.0	27.0		ug/L		108	74 - 155
TAME	25.0	28.3		ug/L		113	79 - 129
Ethyl t-butyl ether	25.0	27.2		ug/L		109	70 - 130

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	103		67 - 130
Toluene-d8 (Surr)	101		70 - 130

Quality Control Data

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-87721/7

Matrix: Water

Analysis Batch: 87721

Client Sample ID: LCS 720-87721/7

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits	
Gasoline Range Organics (GRO) -C6-C12	500	432		ug/L		86	58 - 106	
Surrogate		LCS % Recovery	LCS Qualifier				Limits	
4-Bromofluorobenzene		102					67 - 130	
1,2-Dichloroethane-d4 (Surr)		107					67 - 130	
Toluene-d8 (Surr)		101					70 - 130	

Lab Sample ID: LCSD 720-87721/6

Matrix: Water

Analysis Batch: 87721

Client Sample ID: LCSD 720-87721/6

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits		RPD	
									RPD	Limit
MTBE	25.0	26.1		ug/L		104	62 - 130		1	20
Benzene	25.0	26.7		ug/L		107	82 - 127		1	20
EDB	25.0	27.9		ug/L		112	70 - 130		0	20
1,2-DCA	25.0	26.4		ug/L		106	70 - 126		2	20
Ethylbenzene	25.0	26.9		ug/L		108	86 - 135		0	20
Toluene	25.0	26.4		ug/L		106	83 - 129		0	20
m-Xylene & p-Xylene	50.0	53.4		ug/L		107	70 - 142		1	20
o-Xylene	25.0	27.8		ug/L		111	89 - 136		1	20
TBA	500	487		ug/L		97	82 - 116		0	20
Ethanol	500	591		ug/L		118	31 - 216		4	30
DIPE	25.0	26.6		ug/L		106	74 - 155		2	20
TAME	25.0	28.0		ug/L		112	79 - 129		1	20
Ethyl t-butyl ether	25.0	27.0		ug/L		108	70 - 130		1	20
Surrogate		LCSD % Recovery	LCSD Qualifier				Limits			
4-Bromofluorobenzene		100					67 - 130			
1,2-Dichloroethane-d4 (Surr)		102					67 - 130			
Toluene-d8 (Surr)		100					70 - 130			

Lab Sample ID: LCSD 720-87721/8

Matrix: Water

Analysis Batch: 87721

Client Sample ID: LCSD 720-87721/8

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits		RPD	
									RPD	Limit
Gasoline Range Organics (GRO) -C6-C12	500	434		ug/L		87	58 - 106		1	20
Surrogate		LCSD % Recovery	LCSD Qualifier				Limits			
4-Bromofluorobenzene		103					67 - 130			
1,2-Dichloroethane-d4 (Surr)		106					67 - 130			
Toluene-d8 (Surr)		100					70 - 130			

Quality Control Data

Client: ARCADIS U.S., Inc.
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-33879-3 MS

Matrix: Water

Analysis Batch: 87721

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
MTBE	ND		25.0	26.6		ug/L		107	60 - 138	
Benzene	ND		25.0	26.7		ug/L		107	60 - 140	
EDB	ND		25.0	28.6		ug/L		114	60 - 140	
1,2-DCA	ND		25.0	26.5		ug/L		106	60 - 140	
Ethylbenzene	ND		25.0	26.0		ug/L		104	60 - 140	
Toluene	ND		25.0	26.0		ug/L		104	60 - 140	
m-Xylene & p-Xylene	ND		50.0	51.6		ug/L		103	60 - 140	
o-Xylene	ND		25.0	27.0		ug/L		108	60 - 140	
TBA	ND		500	480		ug/L		96	60 - 140	
Ethanol	ND		500	562		ug/L		112	60 - 140	
DIPE	ND		25.0	27.2		ug/L		109	60 - 140	
TAME	ND		25.0	28.4		ug/L		114	60 - 140	
Ethyl t-butyl ether	ND		25.0	27.3		ug/L		109	60 - 140	
		MS MS								
Surrogate		% Recovery	Qualifier	Limits						
4-Bromofluorobenzene		99		67 - 130						
1,2-Dichloroethane-d4 (Surr)		105		67 - 130						
Toluene-d8 (Surr)		100		70 - 130						

Lab Sample ID: 720-33879-3 MSD

Matrix: Water

Analysis Batch: 87721

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
MTBE	ND		25.0	25.8		ug/L		103	60 - 138	3	20	
Benzene	ND		25.0	27.2		ug/L		109	60 - 140	2	20	
EDB	ND		25.0	27.4		ug/L		110	60 - 140	4	20	
1,2-DCA	ND		25.0	26.4		ug/L		105	60 - 140	0	20	
Ethylbenzene	ND		25.0	26.9		ug/L		107	60 - 140	3	20	
Toluene	ND		25.0	26.6		ug/L		107	60 - 140	2	20	
m-Xylene & p-Xylene	ND		50.0	53.2		ug/L		106	60 - 140	3	20	
o-Xylene	ND		25.0	27.8		ug/L		111	60 - 140	3	20	
TBA	ND		500	501		ug/L		100	60 - 140	4	20	
Ethanol	ND		500	631		ug/L		126	60 - 140	12	20	
DIPE	ND		25.0	27.2		ug/L		109	60 - 140	0	20	
TAME	ND		25.0	27.8		ug/L		111	60 - 140	2	20	
Ethyl t-butyl ether	ND		25.0	27.2		ug/L		109	60 - 140	0	20	
		MSD MSD										
Surrogate		% Recovery	Qualifier	Limits								
4-Bromofluorobenzene		98		67 - 130								
1,2-Dichloroethane-d4 (Surr)		101		67 - 130								
Toluene-d8 (Surr)		100		70 - 130								

Lab Sample ID: MB 720-87759/4

Matrix: Water

Analysis Batch: 87759

Client Sample ID: MB 720-87759/4

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MTBE	ND		0.50		ug/L			03/16/11 10:46	1

Quality Control Data

Client: ARCADIS U.S., Inc.
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-87759/4

Matrix: Water

Analysis Batch: 87759

Client Sample ID: MB 720-87759/4

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/16/11 10:46	1
EDB	ND		0.50		ug/L			03/16/11 10:46	1
1,2-DCA	ND		0.50		ug/L			03/16/11 10:46	1
Ethylbenzene	ND		0.50		ug/L			03/16/11 10:46	1
Toluene	ND		0.50		ug/L			03/16/11 10:46	1
m-Xylene & p-Xylene	ND		1.0		ug/L			03/16/11 10:46	1
o-Xylene	ND		0.50		ug/L			03/16/11 10:46	1
Xylenes, Total	ND		1.0		ug/L			03/16/11 10:46	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			03/16/11 10:46	1
TBA	ND		4.0		ug/L			03/16/11 10:46	1
Ethanol	ND		250		ug/L			03/16/11 10:46	1
DIPE	ND		0.50		ug/L			03/16/11 10:46	1
TAME	ND		0.50		ug/L			03/16/11 10:46	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/16/11 10:46	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		67 - 130		03/16/11 10:46	1
1,2-Dichloroethane-d4 (Surr)	100		67 - 130		03/16/11 10:46	1
Toluene-d8 (Surr)	97		70 - 130		03/16/11 10:46	1

Lab Sample ID: LCS 720-87759/5

Matrix: Water

Analysis Batch: 87759

Client Sample ID: LCS 720-87759/5

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
MTBE	25.0	25.2		ug/L		101	62 - 130
Benzene	25.0	25.8		ug/L		103	82 - 127
EDB	25.0	26.3		ug/L		105	70 - 130
1,2-DCA	25.0	24.2		ug/L		97	70 - 126
Ethylbenzene	25.0	25.9		ug/L		104	86 - 135
Toluene	25.0	25.8		ug/L		103	83 - 129
m-Xylene & p-Xylene	50.0	52.3		ug/L		105	70 - 142
o-Xylene	25.0	26.3		ug/L		105	89 - 136
TBA	500	501		ug/L		100	82 - 116
Ethanol	500	529		ug/L		106	31 - 216
DIPE	25.0	25.2		ug/L		101	74 - 155
TAME	25.0	26.0		ug/L		104	79 - 129
Ethyl t-butyl ether	25.0	24.8		ug/L		99	70 - 130

Surrogate	LCS % Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		67 - 130
Toluene-d8 (Surr)	99		70 - 130

Quality Control Data

Client: ARCADIS U.S., Inc.
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-87759/7

Matrix: Water

Analysis Batch: 87759

Client Sample ID: LCS 720-87759/7

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits	
Gasoline Range Organics (GRO) -C6-C12	500	363		ug/L		73	58 - 106	
Surrogate		LCS % Recovery	LCS Qualifier				Limits	
4-Bromofluorobenzene		101					67 - 130	
1,2-Dichloroethane-d4 (Surr)		100					67 - 130	
Toluene-d8 (Surr)		99					70 - 130	

Lab Sample ID: LCSD 720-87759/6

Matrix: Water

Analysis Batch: 87759

Client Sample ID: LCSD 720-87759/6

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits		RPD	
									RPD	Limit
MTBE	25.0	25.3		ug/L		101	62 - 130		1	20
Benzene	25.0	25.9		ug/L		103	82 - 127		0	20
EDB	25.0	26.4		ug/L		106	70 - 130		0	20
1,2-DCA	25.0	24.5		ug/L		98	70 - 126		1	20
Ethylbenzene	25.0	25.9		ug/L		104	86 - 135		0	20
Toluene	25.0	26.0		ug/L		104	83 - 129		1	20
m-Xylene & p-Xylene	50.0	52.2		ug/L		104	70 - 142		0	20
o-Xylene	25.0	26.4		ug/L		106	89 - 136		1	20
TBA	500	501		ug/L		100	82 - 116		0	20
Ethanol	500	508		ug/L		102	31 - 216		4	30
DIPE	25.0	25.3		ug/L		101	74 - 155		0	20
TAME	25.0	25.8		ug/L		103	79 - 129		1	20
Ethyl t-butyl ether	25.0	24.8		ug/L		99	70 - 130		0	20
Surrogate		LCSD % Recovery	LCSD Qualifier				Limits			
4-Bromofluorobenzene		102					67 - 130			
1,2-Dichloroethane-d4 (Surr)		98					67 - 130			
Toluene-d8 (Surr)		98					70 - 130			

Lab Sample ID: LCSD 720-87759/8

Matrix: Water

Analysis Batch: 87759

Client Sample ID: LCSD 720-87759/8

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits		RPD	
									RPD	Limit
Gasoline Range Organics (GRO) -C6-C12	500	357		ug/L		71	58 - 106		2	20
Surrogate		LCSD % Recovery	LCSD Qualifier				Limits			
4-Bromofluorobenzene		101					67 - 130			
1,2-Dichloroethane-d4 (Surr)		99					67 - 130			
Toluene-d8 (Surr)		98					70 - 130			

Quality Control Data

Client: ARCADIS U.S., Inc.
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-33879-7 MS

Matrix: Water

Analysis Batch: 87759

Client Sample ID: MW-7

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier					Limits
MTBE	990		500	1570		ug/L		116	60 - 138	
Benzene	ND		500	530		ug/L		106	60 - 140	
EDB	ND		500	575		ug/L		115	60 - 140	
1,2-DCA	ND		500	522		ug/L		104	60 - 140	
Ethylbenzene	ND		500	521		ug/L		104	60 - 140	
Toluene	ND		500	513		ug/L		103	60 - 140	
m-Xylene & p-Xylene	ND		1000	1050		ug/L		105	60 - 140	
o-Xylene	ND		500	537		ug/L		107	60 - 140	
TBA	400		10000	10600		ug/L		102	60 - 140	
Ethanol	ND		10000	10500		ug/L		105	60 - 140	
DIPE	ND		500	538		ug/L		108	60 - 140	
TAME	15		500	582		ug/L		113	60 - 140	
Ethyl t-butyl ether	ND		500	542		ug/L		108	60 - 140	
MS MS										
Surrogate	% Recovery		Qualifier	Limits						
4-Bromofluorobenzene	104			67 - 130						
1,2-Dichloroethane-d4 (Surr)	103			67 - 130						
Toluene-d8 (Surr)	100			70 - 130						

Lab Sample ID: 720-33879-7 MSD

Matrix: Water

Analysis Batch: 87759

Client Sample ID: MW-7

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
MTBE	990		500	1590		ug/L		120	60 - 138	1	20
Benzene	ND		500	563		ug/L		113	60 - 140	6	20
EDB	ND		500	584		ug/L		117	60 - 140	2	20
1,2-DCA	ND		500	546		ug/L		109	60 - 140	5	20
Ethylbenzene	ND		500	552		ug/L		110	60 - 140	6	20
Toluene	ND		500	550		ug/L		110	60 - 140	7	20
m-Xylene & p-Xylene	ND		1000	1110		ug/L		111	60 - 140	6	20
o-Xylene	ND		500	567		ug/L		113	60 - 140	5	20
TBA	400		10000	11000		ug/L		106	60 - 140	3	20
Ethanol	ND		10000	11400		ug/L		114	60 - 140	7	20
DIPE	ND		500	565		ug/L		113	60 - 140	5	20
TAME	15		500	592		ug/L		115	60 - 140	2	20
Ethyl t-butyl ether	ND		500	558		ug/L		112	60 - 140	3	20
MSD MSD											
Surrogate	% Recovery		Qualifier	Limits							
4-Bromofluorobenzene	103			67 - 130							
1,2-Dichloroethane-d4 (Surr)	102			67 - 130							
Toluene-d8 (Surr)	99			70 - 130							

QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

GC/MS VOA

Analysis Batch: 87721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-33879-2	MW-2	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-3	MW-3	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-3 MS	MW-3	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-3 MSD	MW-3	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-4	MW-4	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-5	MW-5	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-6	MW-6	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-7	MW-7	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-8	MW-8	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-9	MW-9	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-10	RW-1	Total/NA	Water	8260B/CA_LUF TMS	
MB 720-87721/4	MB 720-87721/4	Total/NA	Water	8260B/CA_LUF TMS	
LCS 720-87721/5	LCS 720-87721/5	Total/NA	Water	8260B/CA_LUF TMS	
LCSD 720-87721/6	LCSD 720-87721/6	Total/NA	Water	8260B/CA_LUF TMS	
LCS 720-87721/7	LCS 720-87721/7	Total/NA	Water	8260B/CA_LUF TMS	
LCSD 720-87721/8	LCSD 720-87721/8	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-1	MW-1	Total/NA	Water	8260B/CA_LUF TMS	

Analysis Batch: 87759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-33879-7	MW-7	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-7 MS	MW-7	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-7 MSD	MW-7	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-8	MW-8	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-9	MW-9	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-10	RW-1	Total/NA	Water	8260B/CA_LUF TMS	
MB 720-87759/4	MB 720-87759/4	Total/NA	Water	8260B/CA_LUF TMS	
LCS 720-87759/5	LCS 720-87759/5	Total/NA	Water	8260B/CA_LUF TMS	
LCSD 720-87759/6	LCSD 720-87759/6	Total/NA	Water	8260B/CA_LUF TMS	
LCS 720-87759/7	LCS 720-87759/7	Total/NA	Water	8260B/CA_LUF TMS	
LCSD 720-87759/8	LCSD 720-87759/8	Total/NA	Water	8260B/CA_LUF TMS	
720-33879-5	MW-5	Total/NA	Water	8260B/CA_LUF TMS	



Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-1

Date Collected: 03/15/11 13:40

Date Received: 03/15/11 14:48

Lab Sample ID: 720-33879-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		10	87721	03/15/11 20:23	YB	TestAmerica San Francisco

Client Sample ID: MW-2

Date Collected: 03/15/11 12:40

Date Received: 03/15/11 14:48

Lab Sample ID: 720-33879-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		200	87721	03/15/11 20:56	YB	TestAmerica San Francisco

Client Sample ID: MW-3

Date Collected: 03/15/11 12:15

Date Received: 03/15/11 14:48

Lab Sample ID: 720-33879-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		1	87721	03/15/11 21:27	YB	TestAmerica San Francisco

Client Sample ID: MW-4

Date Collected: 03/15/11 11:50

Date Received: 03/15/11 14:48

Lab Sample ID: 720-33879-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		1	87721	03/15/11 23:04	YB	TestAmerica San Francisco

Client Sample ID: MW-5

Date Collected: 03/15/11 09:45

Date Received: 03/15/11 14:48

Lab Sample ID: 720-33879-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		1	87721	03/15/11 23:36	YB	TestAmerica San Francisco
Total/NA	Analysis	8260B/CA_LUF TMS		10	87759	03/16/11 13:37	AC	TestAmerica San Francisco

Client Sample ID: MW-6

Date Collected: 03/15/11 10:50

Date Received: 03/15/11 14:48

Lab Sample ID: 720-33879-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		1	87721	03/16/11 00:07	YB	TestAmerica San Francisco

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Client Sample ID: MW-7

Date Collected: 03/15/11 10:25

Date Received: 03/15/11 14:48

Lab Sample ID: 720-33879-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		1	87721	03/16/11 00:40	YB	TestAmerica San Francisco
Total/NA	Analysis	8260B/CA_LUF TMS		20	87759	03/16/11 14:07	AC	TestAmerica San Francisco

Client Sample ID: MW-8

Date Collected: 03/15/11 09:15

Date Received: 03/15/11 14:48

Lab Sample ID: 720-33879-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		5	87721	03/16/11 01:13	YB	TestAmerica San Francisco
Total/NA	Analysis	8260B/CA_LUF TMS		50	87759	03/16/11 16:10	AC	TestAmerica San Francisco

Client Sample ID: MW-9

Date Collected: 03/15/11 11:10

Date Received: 03/15/11 14:48

Lab Sample ID: 720-33879-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		5	87721	03/16/11 01:45	YB	TestAmerica San Francisco
Total/NA	Analysis	8260B/CA_LUF TMS		5	87759	03/16/11 16:40	AC	TestAmerica San Francisco

Client Sample ID: RW-1

Date Collected: 03/15/11 13:20

Date Received: 03/15/11 14:48

Lab Sample ID: 720-33879-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		5	87721	03/16/11 02:17	YB	TestAmerica San Francisco
Total/NA	Analysis	8260B/CA_LUF TMS		5	87759	03/16/11 17:11	AC	TestAmerica San Francisco

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Laboratory	Authority	Program	EPA Region	Certification ID	* Expiration Date
TestAmerica San Francisco	California	State Program	9	2496	01/31/12

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

* Any expired certifications in this list are currently pending renewal and are considered valid.

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Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFT MS	8260B / CA LUFT MS	SW846	TAL SF

Protocol References:

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

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11132, Oakland

TestAmerica Job ID: 720-33879-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-33879-1	MW-1	Water	03/15/11 13:40	03/15/11 14:48
720-33879-2	MW-2	Water	03/15/11 12:40	03/15/11 14:48
720-33879-3	MW-3	Water	03/15/11 12:15	03/15/11 14:48
720-33879-4	MW-4	Water	03/15/11 11:50	03/15/11 14:48
720-33879-5	MW-5	Water	03/15/11 09:45	03/15/11 14:48
720-33879-6	MW-6	Water	03/15/11 10:50	03/15/11 14:48
720-33879-7	MW-7	Water	03/15/11 10:25	03/15/11 14:48
720-33879-8	MW-8	Water	03/15/11 09:15	03/15/11 14:48
720-33879-9	MW-9	Water	03/15/11 11:10	03/15/11 14:48
720-33879-10	RW-1	Water	03/15/11 13:20	03/15/11 14:48

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San Francisco
1220 Quarry Lane

720-33879

Chain of Custody Record

130177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Pleasanton, CA 94566
phone 925.484.1919 fax 925.600.3002

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Jason Duda			Site Contact:			Date:			COC No:	
Broadbent and Associates, Inc.		Tel/Fax: 530-566-1400/530-566-1401			Lab Contact: Dimple Sharma			Carrier:			1 of 1 COCs	
Address: 1324 Mangrove Ave. Suite 212		Analysis Turnaround Time			Filtered Sample CRO by 8015M BTEX and 5 Oxy's by 8260B EDB, 1,2-DCA, and Ethanol by 8260B						Job No.	
City/State/Zip: Chico, CA 95926		Calendar (C) or Work Days (W)									SDG No.	
(530) 566-1400 Phone		TAT if different from Below <i>Slur</i>									Sample Specific Notes:	
(530) 566-1401 FAX		<input type="checkbox"/> 2 weeks										
Project Name: BP 11132		<input type="checkbox"/> 1 week										
Site: 3201 35th Avenue, Oakland, CA		<input type="checkbox"/> 2 days										
P O # GP09BPNA.C112		<input type="checkbox"/> 1 day										
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.						
1 MW-1		3/15/11	1340		W	3	X	X	X			
2 MW-2			1240			3	X	X	X			
3 MW-3			1215			3	X	X	X			
4 MW-4			1150			3	X	X	X			
5 MW-5			0945			3	X	X	X			
6 MW-6			1050			3	X	X	X			
7 MW-7			1025			3	X	X	X			
8 MW-8			0915			3	X	X	X			
9 MW-9			1110			3	X	X	X			
10 MW-10						3	X	X	X	No Sample		
11 RW-1			1320			3	X	X	X			
Trip Blank		3/15/11	1345							on hold		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Possible Hazard Identification							<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>												
Special Instructions/QC Requirements & Comments:												
b.i.c												
Relinquished by: <i>[Signature]</i>		Company: <i>BAI</i>		Date/Time: 3/15/11 1448		Received by: <i>[Signature]</i>		Company: <i>TASF</i>		Date/Time: 3/17/11 - 1448		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		

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03/17/2011

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Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 720-33879-1

Login Number: 33879

List Source: TestAmerica San Francisco

List Number: 1

Creator: Hoang, Julie

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



APPENDIX D

GEOTRACKER UPLOAD CONFIRMATION RECEIPTS

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

<u>Submittal Type:</u>	EDF - Monitoring Report - Semi-Annually
<u>Submittal Title:</u>	1Q11 GW Monitoring
<u>Facility Global ID:</u>	T0600100213
<u>Facility Name:</u>	BP #11132
<u>File Name:</u>	720-33879-1.zip
<u>Organization Name:</u>	Broadbent & Associates, Inc.
<u>Username:</u>	BROADBENT-C
<u>IP Address:</u>	67.118.40.90
<u>Submittal Date/Time:</u>	4/19/2011 3:45:12 PM
<u>Confirmation Number:</u>	5884057462

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

<u>Submittal Type:</u>	GEO_WELL
<u>Submittal Title:</u>	1Q11 GEO_WELL 11132
<u>Facility Global ID:</u>	T0600100213
<u>Facility Name:</u>	BP #11132
<u>File Name:</u>	GEO_WELL.zip
<u>Organization Name:</u>	Broadbent & Associates, Inc.
<u>Username:</u>	BROADBENT-C
<u>IP Address:</u>	67.118.40.90
<u>Submittal Date/Time:</u>	4/19/2011 4:00:04 PM
<u>Confirmation Number:</u>	9081965148