



ARCADIS U.S., Inc.
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San Francisco, California 94104
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Re: Third Quarter 2011 Monitoring Report
Former BP Station #11109
4280 Foothill Blvd.
Oakland, California
ACEH Case #RO0000426

RECEIVED

2:12 pm, Nov 01, 2011

Alameda County
Environmental Health

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:
10/31/2011

Submitted by:
ARCADIS U.S., Inc.

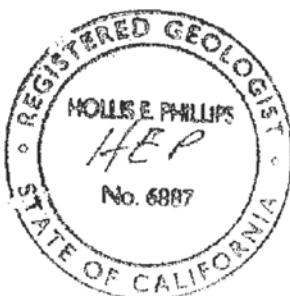
Hollis E. Phillips, PG
Project Manager

Contact:
Hollis E. Phillips

Phone:
415.374.2744 ext 13

Email:
Hollis.phillips@arcadis-us.com

Our ref:
GP09BPNA.C106.
N0000



Imagine the result

Prepared for

Ms. Hollis Phillips, PG
Senior Geologist
ARCADIS-US, Inc.
100 Montgomery Street, Ste. 300
San Francisco, California 94104

On behalf of

Atlantic Richfield Company
PO Box 1257
San Ramon, California 94583

Prepared by



Third Quarter 2011 Monitoring Report
Former BP Station #11109
4280 Foothill Boulevard, Oakland, California
ACEH Case #RO0000426

875 Cotting Lane, Suite G
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(707) 455-7290
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October 31, 2011

Project No. 09-88-646

Broadbent & Associates, Inc.
875 Cotting Ln., Suite G
Vacaville, CA 95688
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(707) 455-7295 Fax



October 31, 2011

Project No. 06-88-646

ARCADIS-US, Inc.
100 Montgomery Street, Suite 300
San Francisco, California 94104
Submitted via ENFOS

Attn.: Ms. Hollis Phillips, PG

Re: Third Quarter 2011 Monitoring Report, Former BP Service Station #11109, 4280 Foothill Boulevard, Oakland, Alameda County, California; ACEH Case #RO0000426

Dear Ms. Phillips:

Attached is the Third Quarter 2011 Monitoring Report for Former BP Service Station #11109, 4280 Foothill Boulevard, Oakland, Alameda County, California. Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (707) 455-7290.

Sincerely,
BROADBENT & ASSOCIATES, INC.

A handwritten signature in blue ink that appears to read "Samuel Barkley".

Samuel Barkley
Senior Staff Geologist



Thomas Sparrowe, PG
Senior Geologist

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

**THIRD QUARTER 2011
MONITORING REPORT
STATION #11109, OAKLAND, CALIFORNIA**

Broadbent & Associates, Inc. (BAI) is pleased to present this *Third Quarter 2011 Monitoring Report* on behalf of ARCADIS-US, Inc. for station #11109 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>#11109 / 4280 Foothill Boulevard, Oakland</u>
Client Project Manager / Title:	<u>Ms. Hollis Phillips, PG / Senior Geologist</u>
BAI Contact:	<u>Sam Barkley & Tom Sparrowe (707) 455-7290</u>
BAI Project No.:	<u>09-88-646</u>
Primary Regulatory Agency / ID No.:	<u>ACEH/ Case #RO0000426</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 (Third Quarter 2011):

- Conducted groundwater monitoring/sampling for Third Quarter 2011 on September 28, 2011.

WORK SCHEDULED FOR NEXT QUARTER (Fourth Quarter 2011):

- Submit *Third Quarter 2011 Monitoring Report* (contained herein).

ADDITIONAL WORK RECOMMENDED FOR NEXT QUARTER (Fourth Quarter 2011)

- None

GROUNDWATER MONITORING PLAN SUMMARY:

Groundwater level gauging:	<u>MW-2 through MW-12</u>	(Semi-Annually 1Q & 3Q)
Groundwater sample collection:	<u>MW-2 through MW-7, MW-10, MW-11, and MW-12</u>	(Semi-Annually 1Q & 3Q)
Biodegradation indicator parameter monitoring:	<u>None</u>	

QUARTERLY RESULTS SUMMARY:

LNAPL

LNAPL observed this quarter:	<u>Yes - MW-5, MW-10 & MW-12</u>	(yes\no)
LNAPL recovered this quarter:	<u>None</u>	(gal)
Cumulative LNAPL recovered:	<u>163.34 (FP/Water Mixture)</u>	(gal)

Groundwater Elevation and Gradient:

Depth to groundwater:	<u>9.88 (MW-11) to 15.81 (MW-6)</u>	(ft below TOC)
Gradient direction:	<u>Northwest</u>	(compass direction)
Gradient magnitude:	<u>0.02</u>	(ft/ft)
Average change in elevation:	<u>-1.92</u>	(ft since last measurement)

Laboratory Analytical Data

Summary:

GRO was detected in MW-4, MW-7 and MW-11. Benzene was detected in MW-7 and MW-11. Ethylbenzene was detected in MW-7 and MW-11. Toluene was detected in MW-7 and MW-11. Total Xylenes was detected in MW-7 and MW-11. MTBE was detected in MW-3, MW-4, MW-6, MW-7 and MW-11. TBA was detected in MW-7 and MW-11. Other petroleum hydrocarbon constituents were below laboratory reporting limits.

ACTIVITIES CONDUCTED & RESULTS:

Third Quarter 2011 groundwater monitoring was conducted on September 28, 2011 by BAI personnel in accordance with the monitoring plan summary above. Light Non-Aqueous Phase Liquid (LNAPL, or free product) was observed in wells MW-5 (0.06 ft), MW-10 (0.29 ft) and MW-12 (0.20 ft). MW-8 was inaccessible due to a car parked over the well. No other irregularities were noted during water level gauging. Depth to water measurements ranged from 9.88 ft at MW-11 to 15.81 ft at MW-6. Resulting groundwater surface elevations ranged from 24.32 ft at MW-8 to 30.16 ft at MW-11. Groundwater elevations are summarized in Table 1. Water level elevations yielded a potentiometric groundwater gradient to the northwest at approximately 0.02 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 September 28, 2011, consistent with the current monitoring schedule. No irregularities were reported during sampling. 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 (MW-4, MW-7, MW-11); for Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), 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 (MW-7, MW-11); and Methyl Tertiary Butyl Ether (MTBE) by EPA Method 8260 (MW-3, MW-4, MW-6). No significant irregularities were encountered during analysis of the samples. 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 three wells sampled at concentrations up to 5,900 µg/L in well MW-11. Benzene was detected above the laboratory reporting limit in two wells sampled at concentrations up to 380 µg/L in well MW-7. Toluene was detected above the laboratory reporting limit in two wells sampled at concentrations up to 92 µg/L in well MW-11. Ethylbenzene was detected above the laboratory reporting limit in two wells sampled at concentrations up to 260 µg/L in well MW-11. Total Xylenes was detected above the laboratory reporting limit in two wells sampled at concentrations up to 370 µg/L in well MW-11. MTBE was detected above the laboratory reporting limit in five wells sampled at concentrations up to 62 µg/L in well MW-4. TBA was detected above the laboratory reporting limit in two wells sampled at concentrations up to 26 µg/L in well MW-11. The remaining analytes were not detected above their laboratory reporting limits in the wells sampled this last monitoring event. Groundwater monitoring laboratory analytical results are summarized in Table 1 and Table 2. 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 on September 28, 2011 were between historic minimum and maximum elevations for each well gauged except for a historic minimum in well MW-10. Groundwater elevations yielded a potentiometric groundwater gradient to the northwest at approximately 0.02 ft/ft, generally consistent with the historic flow direction and gradient data since 2009, as presented in Table 3.

Hydrocarbon concentrations during this event were within the historic minimum and maximum ranges recorded for each well, with the following exceptions: Benzene, Toluene, Ethylbenzene, Total Xylenes and MTBE reached historic minimums in well MW-11. Recent and historic laboratory analytical results are summarized in Table 1 and Table 2.

ARCADIS is in the process of obtaining a permit from the Bay Area Air Quality Management District (BAAQMD) to conduct mobile dual phase extraction (DPE) at the site. Do to the site being located within

1,000 feet of a school the permit application process will take up to three months. ARCADIS anticipates starting the work in January 2012.

RECOMMENDATIONS:

There are no scheduled environmental work for Fourth Quarter of 2011. The next semi-annual monitoring and sampling event is scheduled to be conducted during the First Quarter of 2012.

LIMITATIONS:

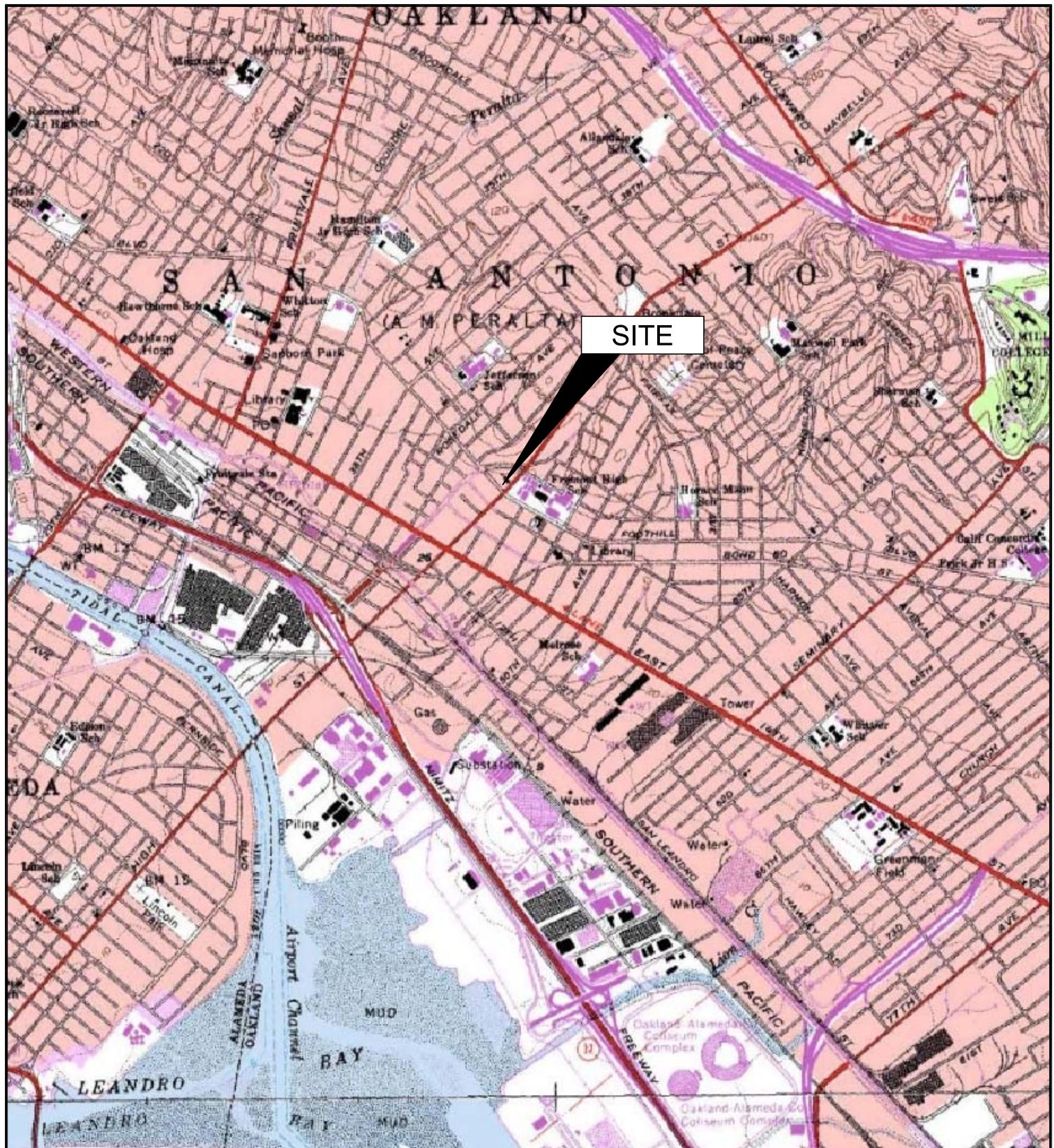
The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by TestAmerica Laboratories, Inc. (Pleasanton, California), and our understanding of ACEH requirements. Our services were performed in accordance with the generally 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 September 28, 2011
- Table 1: Summary of Groundwater Monitoring Data: Water Elevations and Laboratory Analyses
Table 2: Summary of Fuel Additives Analytical Data
Table 3: Historical Groundwater Gradient - Direction and Magnitude
Table 4: Summary of Free Product Removal
- 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
EDB:	1,2-Dibromomethane	TAME:	Tert-Amyl Methyl Ether
ETBE:	Ethyl Tertiary Butyl Ether	TBA:	Tertiary Butyl Ether
TOC:	Top of Casing	µg/L:	Micrograms per liter



0 2000 4000
APPROXIMATE SCALE (ft)



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, CA 95926
Project No.: 06-88-646 Date: 07/23/09

Former BP Station #11109
4280 Foothill Boulevard
Oakland, California

Site Location Map

Drawing 1

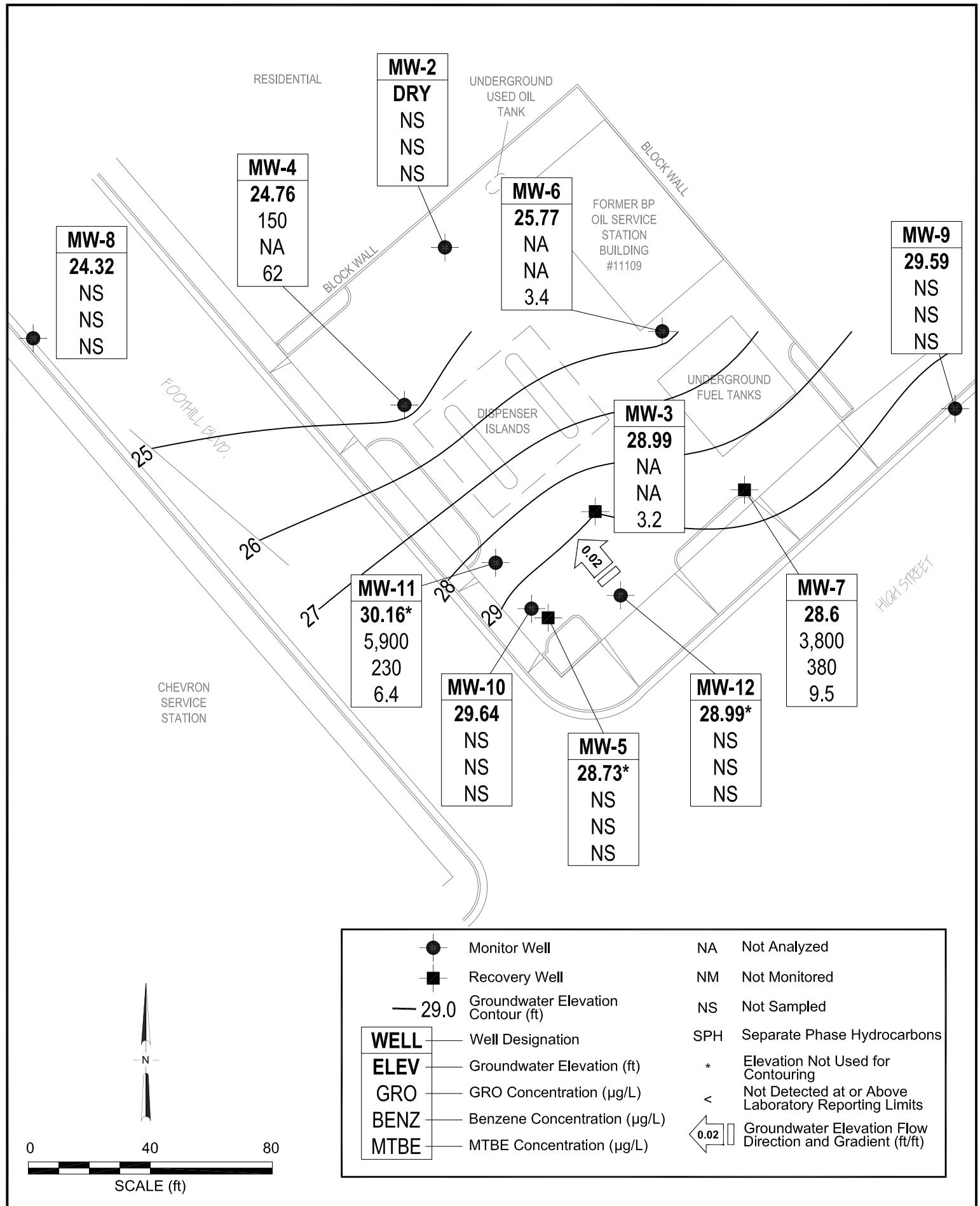


Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-1																	
1/31/1990	--	38.19	15.41	0.00	22.78	--	--	--	--	--	--	--	--	--	--	--	
2/5/1990	--			--	--	--	--	--	--	--	--	--	--	--	--	--	c
MW-2																	
2/5/1990	--	41.22	21.90	0.00	19.32	1,300	--	14	<0.1	9	13	--	--	--	--	--	
2/14/1991	--		21.16	0.00	20.06	<50	<10000	<0.3	<0.3	<0.3	<0.3	--	<5000	51	--	--	d
5/13/1991	--		21.32	0.00	19.90	<50	<50	<0.3	<0.3	<0.3	<0.3	--	6,000	0.5	--	--	e
7/24/1991	--		22.92	0.00	18.30	--	--	--	--	--	--	--	--	--	--	--	
10/3/1991	--		24.90	0.00	16.32	<50	<50	<0.3	0.8	<0.3	<0.3	--	<5000	0.7	--	--	e
10/15/1991	--		24.10	0.00	17.12	--	--	--	--	--	--	--	--	--	--	--	
12/4/1991	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	f
12/16/1991	--		23.95	0.00	17.27	--	--	--	--	--	--	--	--	--	--	--	
1/6/1992	--		23.30	0.00	17.92	<50	<50	<0.3	<0.3	<0.3	<0.3	--	<5000	--	--	--	
1/22/1992	--		23.14	0.00	18.08	--	--	--	--	--	--	--	--	--	--	--	
1/28/1992	--		22.99	0.00	18.23	--	--	--	--	--	--	--	--	--	--	--	
2/5/1992	--		22.63	0.00	18.59	--	--	--	--	--	--	--	--	--	--	--	
2/12/1992	--		22.04	0.00	19.18	--	--	--	--	--	--	--	--	--	--	--	
2/17/1992	--		20.84	0.00	20.38	--	--	--	--	--	--	--	--	--	--	--	
4/3/1992	--		18.29	0.00	22.93	--	--	--	--	--	--	--	--	--	--	--	
4/8/1992	--		18.86	0.00	22.36	<50	63	<0.5	<0.5	<0.5	<0.5	--	<5000	--	--	--	
4/14/1992	--		19.45	0.00	21.77	--	--	--	--	--	--	--	--	--	--	--	
4/29/1992	--		20.35	0.00	20.87	--	--	--	--	--	--	--	--	--	--	--	
5/7/1992	--		20.84	0.00	20.38	--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		22.34	0.00	18.88	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
10/8/1992	--		23.73	0.00	17.49	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
12/31/1992	--		21.12	0.00	20.10	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
4/21/1993	--		17.68	0.00	23.54	<50	<50	<0.5	<0.5	<0.5	<0.5	--	<5000	--	--	--	g, n
7/7/1993	--		20.30	0.00	20.92	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	1.0	--	--	e, n
9/21/1993	--		21.93	0.00	19.29	<50	--	0.9	0.7	0.7	2.6	21.54	--	--	--	--	n
12/17/1993	--		21.48	0.00	19.74	--	--	--	--	--	--	--	--	--	--	--	
12/23/1993	--		--	--	--	<50	--	<0.5	<0.5	<0.5	0.7	--	--	--	--	--	n

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-2 Cont.																	
4/7/1994	--	41.22	20.25	0.00	20.97	<50	--	<0.5	<0.5	<0.5	<0.5	12.2	--	--	5.9	--	n
7/6/1994	--		20.59	0.00	20.63	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	3.1	--	n
10/7/1994	--		22.04	0.00	19.18	<50	--	<0.5	<0.5	<0.5	<0.5	15.2	--	--	2.8	--	n
1/27/1995	--		26.12	0.00	15.10	<50	440	<0.5	<0.5	<0.5	<1	--	<5000	--	4.8	--	
3/30/1995	--		12.34	0.00	28.88	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	7.2	--	
6/20/1995	--		16.42	0.00	24.80	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	6.0	--	
10/3/1995	--		20.06	0.00	21.16	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	5.7	--	
12/6/1995	--		21.31	0.00	19.91	<50	--	<0.50	<0.50	<0.50	<1.0	46	--	--	5.4	--	
3/21/1996	--		12.28	0.00	28.94	<50	--	<0.5	<1.0	<1.0	<1.0	<1.0	--	--	7.4	--	
6/21/1996	--		13.28	0.00	27.94	<50	--	<0.5	<1	<1	<1	<10	--	--	7.3	--	
9/6/1996	--		13.94	0.00	27.28	--	--	--	--	--	--	--	--	--	--	--	
9/9/1996	--		--	--	--	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	7.4	--	
12/19/1996	--		12.19	0.00	29.03	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	7.9	--	
3/17/1997	--		11.59	0.00	29.63	--	--	--	--	--	--	--	--	--	--	--	
8/12/1997	--		13.21	0.00	28.01	--	--	--	--	--	--	--	--	--	--	--	
12/10/1997	--		12.34	0.00	28.88	--	--	--	--	--	--	--	--	--	--	--	
3/12/1998	--		11.04	0.00	30.18	--	--	--	--	--	--	--	--	--	--	--	
6/23/1998	--		11.77	0.00	29.45	--	--	--	--	--	--	--	--	--	--	--	
3/31/1999	--		12.38	0.00	28.84	--	--	--	--	--	--	--	--	--	--	--	
8/25/1999	--		17.72	0.00	23.50	--	--	--	--	--	--	--	--	--	--	--	
3/9/2000	--		11.94	0.00	29.28	--	--	--	--	--	--	--	--	--	--	--	
3/8/2001	--		10.31	0.00	30.91	--	--	--	--	--	--	--	--	--	--	--	
3/8/2002	--		14.35	0.00	26.87	--	--	--	--	--	--	--	--	--	--	--	
3/18/2002	--		13.11	0.00	28.11	--	--	--	--	--	--	--	--	--	--	--	
3/11/2003	--		13.24	0.00	27.98	--	--	--	--	--	--	--	--	--	--	--	
12/09/2003	P		18.58	0.00	22.64	350	--	<0.50	<0.50	0.56	2.8	24			--	6.2	q
03/09/2004	P		12.52	0.00	28.70	74	--	<0.50	<0.50	0.83	4.7	27			--	6.5	
09/17/2004	P		18.05	0.00	23.17	59	--	<0.50	<0.50	<0.50	<0.50	21			--	6.3	
03/07/2005	--		2.32	0.00	38.90	--	--	--	--	--	--	--	--	--	--	--	p
09/06/2005	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	r

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

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Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-2 Cont.																	
03/06/2006	--	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	p
9/5/2006	--		10.46	0.00	30.76	79	--	<0.50	5.1	<0.50	0.73	<0.50	--	--	--	6.4	p
3/5/2007	--		12.25	0.00	28.97	--	--	--	--	--	--	--	--	--	--	--	p
9/7/2007	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	r
3/6/2008	--		12.33	0.00	28.89	--	--	--	--	--	--	--	--	--	--	--	w
9/3/2008	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	r
3/4/2009	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	r
9/30/2009	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	r, x
10/28/2009	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	r
3/23/2010	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	r
6/10/2010	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	r
9/16/2010	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	r
2/23/2011	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	r
9/28/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	r
MW-3																	
2/5/1990	--	40.74	17.45	0.00	23.29	1,400	--	15	<2.5	11	8	--	--	--	--	--	
2/14/1991	--		18.52	0.00	22.22	320	--	8	<0.3	8	1	--	--	--	--	--	
5/13/1991	--		19.32	0.00	21.42	640	--	13	<0.3	18	1	--	--	--	--	--	
7/24/1991	--		20.69	0.00	20.05	--	--	--	--	--	--	--	--	--	--	--	
10/3/1991	--		19.47	0.00	21.27	940	--	21	<0.3	23	2.1	--	--	--	--	--	
10/15/1991	--		20.46	0.00	20.28	--	--	--	--	--	--	--	--	--	--	--	
12/4/1991	--		18.29	0.00	22.45	--	--	--	--	--	--	--	--	--	--	--	
12/16/1991	--		18.34	0.00	22.40	--	--	--	--	--	--	--	--	--	--	--	
1/6/1992	--		18.50	0.00	22.24	580	--	6.1	1	6.1	7.1	--	--	--	--	--	
1/22/1992	--		17.86	0.00	22.88	--	--	--	--	--	--	--	--	--	--	--	
1/28/1992	--		15.84	0.00	24.90	--	--	--	--	--	--	--	--	--	--	--	
2/5/1992	--		17.53	0.00	23.21	--	--	--	--	--	--	--	--	--	--	--	
2/12/1992	--		17.15	0.00	23.59	--	--	--	--	--	--	--	--	--	--	--	
2/17/1992	--		16.18	0.00	24.56	--	--	--	--	--	--	--	--	--	--	--	
4/3/1992	--		14.80	0.00	25.94	--	--	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-3 Cont.																	
4/8/1992	--	40.74	17.06	0.00	23.68	1,100	--	30	4.6	32	11	--	--	--	--	--	
4/14/1992	--		15.22	0.00	25.52	--	--	--	--	--	--	--	--	--	--	--	
4/29/1992	--		15.90	0.00	24.84	--	--	--	--	--	--	--	--	--	--	--	
5/7/1992	--		16.35	0.00	24.39	--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		17.74	0.00	23.00	1,200	--	38	<2.5	24	<2.5	--	--	--	--	--	
10/8/1992	--		19.06	0.00	21.68	1,400	--	31	<0.5	25	13	--	--	--	--	--	
12/31/1992	--		16.61	0.00	24.13	960	--	11	3.6	10	3.8	--	--	--	--	--	h
12/31/1992	--		16.61	0.00	24.13	820	--	12	4.1	13	5.9	--	--	--	--	--	
4/21/1993	--		14.24	0.00	26.50	390	--	5	<0.5	3.7	1.5	--	--	--	--	--	h, n
4/21/1993	--		14.24	0.00	26.50	420	--	5.6	<0.5	3.9	1.4	--	--	--	--	--	n
7/7/1993	--	40.13	15.19	0.00	24.94	54	--	0.6	0.6	<0.5	<0.5	12.68	--	--	--	--	i, n
9/21/1993	--		16.58	0.00	23.55	540	--	7.9	0.9	4.7	2.4	--	--	--	--	--	n
12/17/1993	--		15.82	0.00	24.31	--	--	--	--	--	--	--	--	--	--	--	
12/23/1993	--		--	--	--	480	--	9.2	<0.5	5.4	5.3	--	--	--	--	--	h
12/23/1993	--		--	--	--	500	--	9.8	1.5	3.3	2.1	--	--	--	--	--	n
4/7/1994	--		28.50	0.00	11.63	460	--	20	7.7	9	11	--	--	--	--	--	h
4/7/1994	--		28.50	0.00	11.63	460	--	20	7.4	8.9	11	18.2	--	--	--	--	n
7/6/1994	--		--	--	--	300	--	10	0.6	1.7	6.4	5.54	--	--	4.8	--	n
10/7/1994	--		27.65	0.00	12.48	620	--	28	<0.5	2.2	12	31.4	31	--	4.4	--	n
1/27/1995	--		27.65	0.00	12.48	--	--	--	--	--	--	--	--	--	--	--	j
3/30/1995	--		26.05	0.00	14.08	300	--	10	6	3.4	18	--	--	--	7.6	--	
6/20/1995	--		19.49	0.00	20.64	170	--	7.2	3.4	0.85	15	--	--	--	--	--	
10/3/1995	--		24.93	0.00	15.20	170	--	2.1	<0.50	0.81	8	6.7	--	--	--	--	
12/6/1995	--		25.14	0.00	14.99	1,400	--	6.1	3	1.7	190	53	--	--	--	--	h
12/6/1995	--		25.14	0.00	14.99	1,700	--	6.7	3.1	2.8	210	64	--	--	--	--	
3/21/1996	--		9.48	0.00	30.65	<50	--	0.5	<1	<1	1	<10	--	--	7.3	--	
6/21/1996	--		11.60	0.00	28.53	<50	--	13	<1	<1	<1	12	--	--	7.6	--	
9/6/1996	--		12.23	0.00	27.90	--	--	--	--	--	--	--	--	--	--	--	
9/9/1996	--		--	--	--	<250	--	6.5	<5.0	<5.0	<5.0	<50	--	--	7.6	--	
12/19/1996	--		10.46	0.00	29.67	<50	--	4.1	<1.0	<1.0	<1.0	<10	--	--	8.4	--	

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Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-3 Cont.																	
3/17/1997	--	40.13	9.86	0.00	30.27	50	--	<5	<1.0	<1.0	<1.0	<10	--	--	7.4	--	
8/12/1997	--		12.11	0.00	28.02	<50	--	0.79	<1.0	<1.0	<1.0	10	--	--	6.1	--	
12/10/1997	--		10.90	0.00	29.23	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	3.2	--	
3/12/1998	--		10.20	0.00	29.93	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	h
3/12/1998	--		10.20	0.00	29.93	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	6.3	--	
6/23/1998	--		10.17	0.00	29.96	50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	3.4	--	
3/31/1999	--		11.45	0.00	28.68	60	--	<1.0	<1.0	<1.0	<1.0	6.2	--	--	--	--	
8/25/1999	--		12.52	0.00	27.61	<50	--	<1.0	<1.0	<1.0	<1.0	7.7	--	--	--	--	
3/9/2000	--		12.39	0.00	27.74	<50	--	<0.5	0.54	<0.5	1.7	6.3	--	--	--	--	
3/8/2001	--		10.41	0.00	29.72	<50	--	<0.5	<0.5	<0.5	0.59	7.7	--	--	--	--	
3/8/2002	--		9.83	0.00	30.30	62	--	<0.5	<0.5	<0.5	<1.0	11.6	--	--	--	--	
3/18/2002	--		9.20	0.00	30.93	--	--	--	--	--	--	--	--	--	--	--	
3/11/2003	--		10.54	0.00	29.59	<50	--	<0.50	<0.50	<0.50	<0.50	6.7	--	--	--	--	
12/09/2003	P		12.88	0.00	27.25	<50	--	<0.50	<0.50	<0.50	<0.50	6.4				--	6.3
03/09/2004	P		9.49	0.00	30.64	<50	--	<0.50	<0.50	<0.50	0.63	6.9			--	--	6.1
09/17/2004	--		12.76	0.00	27.37	--	--	--	--	--	--	--			--	--	
03/07/2005	P		7.30	0.00	32.83	<50	--	<0.50	<0.50	<0.50	0.52	5.1			--	--	7.0
09/06/2005	--	42.92	10.81	0.00	32.11	--	--	--	--	--	--	--			--	--	
03/06/2006	P		8.85	0.00	34.07	<50	--	<0.50	<0.50	<0.50	<0.50	6.9			--	6.8	u
9/5/2006	--		9.86	0.00	33.06	--	--	--	--	--	--	--	--	--	--	--	
3/5/2007	P		8.33	0.00	34.59	<50	--	<0.50	<0.50	<0.50	<0.50	5.4	--	--	2.31	6.95	
9/7/2007	--		11.10	0.00	31.82	--	--	--	--	--	--	--	--	--	--	--	
3/6/2008	P		8.92	0.00	34.00	<50	--	<0.50	<0.50	<0.50	<0.50	4.2	--	--	2.5	6.86	
9/3/2008	--		12.19	0.00	30.73	--	--	--	--	--	--	--	--	--	--	--	
3/4/2009	P		8.28	0.00	34.64	<50	--	<0.50	<0.50	<0.50	<0.50	4.9	--	--	1.19	6.71	
9/30/2009	P	40.13	11.60	0.00	28.53	<50	--	<0.50	<0.50	<0.50	<0.50	6.8	--	--	--	7.12	x
10/28/2009	--		10.40	0.00	29.73	--	--	--	--	--	--	--	--	--	--	--	
3/23/2010	P		8.27	0.00	31.86	<50	--	<0.50	<0.50	<0.50	<1.0	3.2	--	--	2.47	6.61	
6/10/2010	--		9.40	0.00	30.73	--	--	--	--	--	--	--	--	--	--	--	
9/16/2010	P		11.14	0.00	28.99	<50	--	<0.50	<0.50	<0.50	<1.0	5.9	--	--	0.91	6.60	

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Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-3 Cont.						--	--	--	--	--	--	0.58	--	--	2.76	6.83	
2/23/2011	P	40.13	8.71	0.00	31.42	--	--	--	--	--	--	0.58	--	--	2.76	6.83	
9/28/2011	P		11.14	0.00	28.99	--	--	--	--	--	--	3.2	--	--	1.52	7.23	
MW-4						--	--	<0.5	9	<0.5	10	--	--	--	--	--	
2/5/1990	--	40.11	20.75	0.00	19.36	620	--	<0.3	<0.3	0.4	2	--	--	--	--	--	
2/14/1991	--		21.73	0.00	18.38	180	--	0.7	<0.3	<0.3	<0.3	--	--	--	--	--	
5/13/1991	--		18.55	0.00	21.56	72	--	--	--	--	--	--	--	--	--	--	
7/24/1991	--		21.31	0.00	18.80	--	--	--	--	--	--	--	--	--	--	--	
10/3/1991	--		22.57	0.00	17.54	57	--	<0.3	<0.3	<0.3	<0.3	--	--	--	--	--	
10/15/1991	--		22.88	0.00	17.23	--	--	--	--	--	--	--	--	--	--	--	
12/4/1991	--		22.54	0.00	17.57	--	--	--	--	--	--	--	--	--	--	--	
12/16/1991	--		22.59	0.00	17.52	--	--	--	--	--	--	--	--	--	--	--	
1/6/1992	--		22.00	0.00	18.11	480	--	0.8	3.2	1.9	7.7	--	--	--	--	--	
1/22/1992	--		21.58	0.00	18.53	--	--	--	--	--	--	--	--	--	--	--	
1/28/1992	--		21.42	0.00	18.69	--	--	--	--	--	--	--	--	--	--	--	
2/5/1992	--		21.10	0.00	19.01	--	--	--	--	--	--	--	--	--	--	--	
2/12/1992	--		20.74	0.00	19.37	--	--	--	--	--	--	--	--	--	--	--	
2/17/1992	--		19.78	0.00	20.33	--	--	--	--	--	--	--	--	--	--	--	
4/3/1992	--		16.80	0.00	23.31	--	--	--	--	--	--	--	--	--	--	--	
4/8/1992	--		17.13	0.00	22.98	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
4/14/1992	--		17.74	0.00	22.37	--	--	--	--	--	--	--	--	--	--	--	
4/29/1992	--		18.56	0.00	21.55	--	--	--	--	--	--	--	--	--	--	--	
5/7/1992	--		19.10	0.00	21.01	--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		20.71	0.00	19.40	<50	--	0.6	<0.5	<0.5	<0.5	--	--	--	--	--	
10/8/1992	--		22.43	0.00	17.68	270	--	<0.5	2.1	2.5	3.2	--	--	--	--	--	
12/31/1992	--		19.58	0.00	20.53	150	--	<0.5	<0.5	<0.5	1.3	--	--	--	--	--	
4/21/1993	--		17.79	0.00	22.32	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	n
7/7/1993	--		18.44	0.00	21.67	160	--	1.2	5.4	3.8	19	5.51	--	--	--	--	n
9/21/1993	--		20.14	0.00	19.97	71	--	<0.5	1.9	<0.5	2.1	--	--	--	--	--	n
12/17/1993	--		19.80	0.00	20.31	--	--	--	--	--	--	--	--	--	--	--	
12/23/1993	--		--	--	--	<50	--	3.1	1.6	0.8	3.8	5.7	--	--	--	--	n

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						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-4 Cont.																	
4/7/1994	--	40.11	19.12	0.00	20.99	<50	--	<0.5	<0.5	<0.5	<0.5	11.7	--	--	6.6	--	n
7/6/1994	--		19.90	0.00	20.21	62	--	<0.5	<0.5	<0.5	<0.5	--	--	--	4.1	--	n
10/7/1994	--		20.07	0.00	20.04	<50	--	<0.5	<0.5	<0.5	<0.5	7.38	--	--	3.6	--	n
1/27/1995	--		13.72	0.00	26.39	<50	--	<0.5	<0.5	<0.5	<1	--	--	--	2.7	--	
3/30/1995	--		11.46	0.00	28.65	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	8.3	--	
6/20/1995	--		14.78	0.00	25.33	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	
10/3/1995	--		19.62	0.00	20.49	<50	--	<0.50	<0.50	<0.50	<1.0	5	--	--	5.8	--	
12/6/1995	--		19.91	0.00	20.20	<50	--	<0.50	<0.50	<0.50	<1.0	47	--	--	5.7	--	
3/21/1996	--		11.12	0.00	28.99	<50	--	<0.5	<1	<1	<1	<10	--	--	7.8	--	
6/21/1996	--		12.21	0.00	27.90	<50	--	<0.5	<1	<1	<1	<10	--	--	7.9	--	
9/6/1996	--		12.89	0.00	27.22	--	--	--	--	--	--	--	--	--	--	--	
9/9/1996	--		--	--	--	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	7.2	--	
12/19/1996	--		11.01	0.00	29.10	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	8.4	--	
3/17/1997	--		10.42	0.00	29.69	--	--	--	--	--	--	--	--	--	--	--	
8/12/1997	--		12.77	0.00	27.34	--	--	--	--	--	--	--	--	--	--	--	
12/10/1997	--		11.22	0.00	28.89	--	--	--	--	--	--	--	--	--	--	--	
3/12/1998	--		10.81	0.00	29.30	--	--	--	--	--	--	--	--	--	--	--	
6/23/1998	--		10.61	0.00	29.50	--	--	--	--	--	--	--	--	--	--	--	
3/31/1999	--		11.46	0.00	28.65	--	--	--	--	--	--	--	--	--	--	--	
8/25/1999	--		16.16	0.00	23.95	--	--	--	--	--	--	--	--	--	--	--	
3/9/2000	--		12.23	0.00	27.88	--	--	--	--	--	--	--	--	--	--	--	
3/8/2001	--		11.04	0.00	29.07	--	--	--	--	--	--	--	--	--	--	--	
3/8/2002	--		12.73	0.00	27.38	--	--	--	--	--	--	--	--	--	--	--	
3/18/2002	--		11.62	0.00	28.49	--	--	--	--	--	--	--	--	--	--	--	
3/11/2003	--		13.44	0.00	26.67	--	--	--	--	--	--	--	--	--	--	--	
12/09/2003	P		15.03	0.00	25.08	<250	--	<2.5	<2.5	<2.5	<2.5	130			--	6.1	
03/09/2004	P		11.04	0.00	29.07	<50	--	<0.50	<0.50	<0.50	<0.50	35			--	5.5	
09/17/2004	P		16.75	0.00	23.36	<250	--	<2.5	<2.5	<2.5	<2.5	140			--	6.5	
03/07/2005	P		11.02	0.00	29.09	67	--	<0.50	<0.50	<0.50	<0.50	42			--	6.6	
09/06/2005	P	42.88	14.64	0.00	28.24	81	--	<0.50	<0.50	<0.50	<1.5	180			--	6.7	s, t

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						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-4 Cont.																	
03/06/2006	P	42.88	12.42	0.00	30.46	<100	--	<1.0	<1.0	<1.0	<1.0	110	--	--	--	6.4	
9/5/2006	--		13.81	0.00	29.07	130	--	<1.0	<1.0	<1.0	<1.0	190	--	--	--	6.5	
3/5/2007	P		10.63	0.00	32.25	<50	--	<0.50	<0.50	<0.50	<0.50	13	--	--	3.34	7.11	
9/7/2007	P		14.77	0.00	28.11	90	--	<0.50	<0.50	<0.50	<0.50	130	--	--	1.14	6.68	s, v (MTBE)
3/6/2008	P		11.30	0.00	31.58	<50	--	<0.50	<0.50	<0.50	<0.50	170	--	--	1.76	6.62	
9/3/2008	P		16.11	0.00	26.77	<50	--	<5.0	<5.0	<5.0	<5.0	150	--	--	1.97	6.33	
3/4/2009	P		10.78	0.00	32.10	140	--	<5.0	<5.0	<5.0	<5.0	110	--	--	1.31	6.47	
9/30/2009	P	40.10	16.48	0.00	23.62	240	--	<2.0	<2.0	<2.0	<2.0	140	--	--	0.08	6.88	x, y (GRO)
10/28/2009	--		15.07	0.00	25.03	--	--	--	--	--	--	--	--	--	--	--	
3/23/2010	P		10.82	0.00	29.28	<50	--	<0.50	<0.50	<0.50	<1.0	84	--	--	0.63	6.39	
6/10/2010	--		12.67	0.00	27.43	--	--	--	--	--	--	--	--	--	--	--	
9/16/2010	P		15.72	0.00	24.38	120	--	<0.50	<0.50	<0.50	<1.0	72	--	--	1.01	6.11	
2/23/2011	P		11.43	0.00	28.67	<50	--	--	--	--	--	55	--	--	0.69	6.10	
9/28/2011	P		15.34	0.00	24.76	150	--	--	--	--	--	62	--	--	0.78	7.38	
MW-5																	
10/3/1991	--	39.55	18.08	0.00	21.47	79,000	--	13,000	7,400	1,400	6,200	--	--	--	--	--	
10/15/1991	--		18.55	0.00	21.00	--	--	--	--	--	--	--	--	--	--	--	
12/4/1991	--		18.44	0.13	20.98	--	--	--	--	--	--	--	--	--	--	--	a
12/16/1991	--		18.66	0.01	20.88	--	--	--	--	--	--	--	--	--	--	--	a
1/6/1992	--		19.12	0.11	20.32	--	--	--	--	--	--	--	--	--	--	--	a
1/22/1992	--		14.59	0.00	24.96	--	--	--	--	--	--	--	--	--	--	--	
1/28/1992	--		15.25	0.00	24.30	--	--	--	--	--	--	--	--	--	--	--	
2/5/1992	--		15.58	0.00	23.97	--	--	--	--	--	--	--	--	--	--	--	q
2/12/1992	--		15.54	0.01	24.00	--	--	--	--	--	--	--	--	--	--	--	a
2/17/1992	--		13.98	0.00	25.57	--	--	--	--	--	--	--	--	--	--	--	q
4/3/1992	--		13.63	0.04	25.88	--	--	--	--	--	--	--	--	--	--	--	a
4/8/1992	--		13.17	0.01	26.37	--	--	--	--	--	--	--	--	--	--	--	a
4/14/1992	--		13.45	0.01	26.09	--	--	--	--	--	--	--	--	--	--	--	a
4/29/1992	--		13.75	0.07	25.73	--	--	--	--	--	--	--	--	--	--	--	a
5/7/1992	--		16.15	0.04	23.36	--	--	--	--	--	--	--	--	--	--	--	a

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-5 Cont.																	
7/3/1992	--	39.55	17.67	0.08	21.80	--	--	--	--	--	--	--	--	--	--	--	a
9/1/1992	--		17.83	0.50	21.22	--	--	--	--	--	--	--	--	--	--	--	a
10/8/1992	--		17.86	0.92	20.77	--	--	--	--	--	--	--	--	--	--	--	a
12/31/1992	--		15.20	0.00	24.35	--	--	--	--	--	--	--	--	--	--	--	q
4/21/1993	--		12.64	0.02	26.89	--	--	--	--	--	--	--	--	--	--	--	a
7/7/1993	--	39.14	12.68	0.82	25.64	--	--	--	--	--	--	--	--	--	--	--	a, i
9/21/1993	--		14.35	0.00	24.79	--	--	--	--	--	--	--	--	--	--	--	q
12/17/1993	--		12.61	0.41	26.12	--	--	--	--	--	--	--	--	--	--	--	a
4/7/1994	--		30.00	0.00	9.14	66,000	--	3,000	1,700	250	6,800	2,002	--	--	--	--	n
7/6/1994	--		--	--	--	29,000	--	1,900	330	63	2,700	1,141	--	--	--	--	n
10/7/1994	--		28.70	0.00	10.44	45,000	--	2,900	540	260	2,600	--	--	--	--	--	h
10/7/1994	--		28.70	0.00	10.44	250,000	--	2,600	660	830	5,200	37.7	--	--	4.2	--	n
1/27/1995	--		28.70	0.00	10.44	--	--	--	--	--	--	--	--	--	--	--	
3/30/1995	--		28.95	0.00	10.19	50,000	--	7,900	2,600	520	6,400	--	--	--	5.5	--	
3/30/1995	--		28.95	0.00	10.19	43,000	--	7,900	2,500	440	6,200	--	--	--	--	--	h
6/20/1995	--		22.54	0.00	16.60	26,000	--	3,500	290	<25	3,300	--	--	--	--	--	h
6/20/1995	--		22.54	0.00	16.60	34,000	--	5,100	1,900	300	3,700	--	--	--	--	--	
10/3/1995	--		18.84	0.00	20.30	12,000	--	46	39	10	1,600	320	--	--	--	--	h
10/3/1995	--		18.84	0.00	20.30	12,000	--	68	42	11	1,600	330	--	--	--	--	
12/6/1995	--		19.07	0.00	20.07	16,000	--	1,200	93	51	700	600	--	--	--	--	
3/21/1996	--		7.43	0.00	31.71	1,500	--	89	28	6	250	<10	--	--	7.2	--	
3/21/1996	--		7.43	0.00	31.71	1,900	--	92	30	7	270	<10	--	--	--	--	h
6/21/1996	--		9.87	0.00	29.27	3,500	--	740	150	19	400	<100	--	--	7.1	--	
6/21/1996	--		9.87	0.00	29.27	2,700	--	680	140	20	400	<50	--	--	--	--	h
9/6/1996	--		10.52	0.00	28.62	--	--	--	--	--	--	--	--	--	--	--	
9/9/1996	--		--	--	--	90,000	--	2,900	1,600	670	6,900	<2500	--	--	--	--	h
9/9/1996	--		--	--	--	82,000	--	3,100	1,700	850	9,100	<2500	--	--	7.5	--	
12/19/1996	--		8.62	0.00	30.52	26,000	--	490	430	63	1,140	<500	--	--	--	--	h
12/19/1996	--		8.62	0.00	30.52	41,000	--	790	820	120	2,040	<500	--	--	7.7	--	
3/17/1997	--		8.22	0.00	30.92	5,500	--	1.9	2.4	<1.0	<1.0	29	--	--	6.4	--	

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Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-5 Cont.																	
3/17/1997	--	39.14	8.22	0.00	30.92	6,600	--	2.5	2.7	<1.0	<1.0	28	--	--	--	--	h
8/12/1997	--		12.18	0.22	26.74	33,000	--	6,400	2,400	680	4,400	<1000	--	--	6.8	--	a
8/12/1997	--		12.18	0.22	26.74	36,000	--	6,100	2,500	720	4,500	<500	--	--	--	--	h
12/10/1997	--		10.78	0.06	28.30	37,000	--	2,900	2,500	440	4,800	--	--	--	--	--	h
12/10/1997	--		10.78	0.06	28.30	31,000	--	3,000	2,500	560	5,100	500	--	--	1.8	--	a
3/12/1998	--		10.11	0.22	28.81	100,000	--	1,600	870	250	2,600	<250	--	--	6.1	--	a
6/23/1998	--		10.20	0.02	28.92	27,000	--	2,600	840	400	2,950	<500	--	--	--	--	h
6/23/1998	--		10.20	0.02	28.92	27,000	--	2,500	840	370	2,900	<250	--	--	2.1	--	a
3/31/1999	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	f
8/25/1999	--		14.69	0.38	24.07	180,000	--	2,700	400	830	2,800	26	--	--	--	--	a
3/9/2000	--		14.83	0.60	23.71	53,000	--	12,000	2,600	1,900	9,100	<5.0	--	--	--	--	a
3/8/2001	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	f
3/8/2002	--		11.45	1.50	26.19	33,000	--	8,240	1,080	1,010	2,900	34.3	--	--	--	--	a
3/18/2002	--		8.03	0.00	31.11	--	--	--	--	--	--	--	--	--	--	--	
3/11/2003	--		9.60	0.45	29.09	--	--	--	--	--	--	--	--	--	--	--	a
12/09/2003	--		11.44	0.03	27.72	--	--	--	--	--	--	--	--	--	--	--	a
03/09/2004	P		7.91	0.00	31.23	31,000	--	3,900	1,100	780	3,600	<50	--	--	--	6.6	
09/17/2004	--		12.13	0.15	27.13	--	--	--	--	--	--	--	--	--	--	--	a
03/07/2005	--		8.62	0.02	27.13	--	--	--	--	--	--	--	--	--	--	--	a
09/06/2005	--	41.98	11.16	0.18	30.96	--	--	--	--	--	--	--	--	--	--	--	a
03/06/2006	P		8.60	Sheen	33.38	32,000	--	7,500	810	1,200	2,300	<50	--	--	--	6.4	a, q
9/5/2006	--		6.16	0.03	35.82	--	--	--	--	--	--	--	--	--	--	--	a
3/5/2007	P		8.34	Sheen	33.64	90,000	--	10,000	4,200	1,900	7,900	<50	--	--	1.30	6.91	q
9/7/2007	--		15.15	0.15	26.94	--	--	--	--	--	--	--	--	--	--	--	a
1/14/2008	--		10.30	0.49	32.05	--	--	--	--	--	--	--	--	--	--	--	a
2/27/2008	--		13.22	0.12	28.85	--	--	--	--	--	--	--	--	--	--	--	a
3/6/2008	--		12.90	0.14	29.19	--	--	--	--	--	--	--	--	--	--	--	a
9/3/2008	--		12.90	0.99	29.82	--	--	--	--	--	--	--	--	--	--	--	a
3/4/2009	--		8.45	0.16	33.65	--	--	--	--	--	--	--	--	--	--	--	a
4/8/2009	--		9.05	0.67	33.43	--	--	--	--	--	--	--	--	--	--	--	x

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Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-5 Cont.																	
5/11/2009	--	39.14	9.10	0.32	30.28	--	--	--	--	--	--	--	--	--	--	--	
6/16/2009	--		9.15	0.02	30.01	--	--	--	--	--	--	--	--	--	--	--	
7/22/2009	--		9.33	0.12	29.90	--	--	--	--	--	--	--	--	--	--	--	
8/6/2009	--		10.05	0.01	29.10	--	--	--	--	--	--	--	--	--	--	--	
9/30/2009	--		10.55	0.06	28.64	--	--	--	--	--	--	--	--	--	--	--	
10/28/2009	--		10.48	0.00	28.66	--	--	--	--	--	--	--	--	--	--	--	
3/23/2010	P		7.10	0.00	32.04	71,000	--	1,400	380	620	1,800	<5.0	--	--	--	6.50	
6/10/2010	--		8.26	0.06	30.93	--	--	--	--	--	--	--	--	--	--	--	
9/16/2010	--		9.14	0.04	30.03	--	--	--	--	--	--	--	--	--	--	--	
2/23/2011	--		8.33	0.01	30.82	--	--	--	--	--	--	--	--	--	--	--	
9/28/2011	--	10.46	0.06	28.73	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6																	
10/3/1991	--	41.59	20.73	0.00	20.86	<50	--	0.7	0.8	<0.3	1.3	--	--	--	--	--	
10/15/1991	--		21.20	0.00	20.39	--	--	--	--	--	--	--	--	--	--	--	
12/4/1991	--		21.26	0.00	20.33	--	--	--	--	--	--	--	--	--	--	--	
12/16/1991	--		21.12	0.00	20.47	--	--	--	--	--	--	--	--	--	--	--	
1/6/1992	--		20.29	0.00	21.30	<50	--	<0.5	<0.5	<0.5	1.6	--	--	--	--	--	
1/22/1992	--		20.12	0.00	21.47	--	--	--	--	--	--	--	--	--	--	--	
1/28/1992	--		20.20	0.00	21.39	--	--	--	--	--	--	--	--	--	--	--	
2/5/1992	--		20.09	0.00	21.50	--	--	--	--	--	--	--	--	--	--	--	
2/12/1992	--		19.15	0.00	22.44	--	--	--	--	--	--	--	--	--	--	--	
2/17/1992	--		18.02	0.00	23.57	--	--	--	--	--	--	--	--	--	--	--	
4/3/1992	--		16.62	0.00	24.97	--	--	--	--	--	--	--	--	--	--	--	
4/8/1992	--		17.06	0.00	24.53	<50	--	0.6	<0.5	0.8	<0.5	--	--	--	--	--	
4/14/1992	--		17.23	0.00	24.36	--	--	--	--	--	--	--	--	--	--	--	
4/29/1992	--		18.12	0.00	23.47	--	--	--	--	--	--	--	--	--	--	--	
5/7/1992	--		18.52	0.00	23.07	--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		19.71	0.00	21.88	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
10/8/1992	--		21.22	0.00	20.37	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	h
10/8/1992	--		21.22	0.00	20.37	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	

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						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-6 Cont.																	
12/31/1992	--	41.59	21.33	0.00	20.26	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
4/21/1993	--		16.45	0.00	25.14	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	n
7/7/1993	--		18.68	0.00	22.91	<50	--	<0.5	<0.5	<0.5	<0.5	28.96	29	--	--	--	j, n
9/21/1993	--		19.64	0.00	21.95	<50	--	<0.5	<0.5	<0.5	1.6	--	--	--	--	--	n
12/17/1993	--		21.08	0.00	20.51	--	--	--	--	--	--	--	--	--	--	--	
12/23/1993	--		--	--	--	<50	--	<0.5	0.5	<0.5	0.6	13.95	--	--	--	--	n
4/7/1994	--		21.27	0.00	20.32	<50	--	<0.5	<0.5	<0.5	<0.5	35.1	--	--	6.1	--	n
7/6/1994	--		19.81	0.00	21.78	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	h
7/6/1994	--		19.81	0.00	21.78	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	4.0	--	n
10/7/1994	--		21.25	0.00	20.34	<50	--	<0.5	<0.5	<0.5	<0.5	24.3	24	--	3.5	--	j, n
1/27/1995	--		12.39	0.00	29.20	<50	--	<0.5	<0.5	<0.5	<1	--	--	--	4.2	--	
3/30/1995	--		11.34	0.00	30.25	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	6.1	--	
6/20/1995	--		15.12	0.00	26.47	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	
10/3/1995	--		20.68	0.00	20.91	<50	--	<0.50	<0.50	<0.50	<1.0	66	--	--	6.4	--	
12/6/1995	--		23.77	0.00	17.82	<50	--	<0.50	<0.50	<0.50	<1.0	45	--	--	5.7	--	
3/21/1996	--		11.55	0.00	30.04	<50	--	<0.5	<1	<1	<1	41	--	--	9.1	--	
6/21/1996	--		12.60	0.00	28.99	<50	--	<0.5	<1	<1	<1	<10	--	--	8.6	--	
9/6/1996	--		13.25	0.00	28.34	--	--	--	--	--	--	--	--	--	--	--	
9/9/1996	--		--	--	--	<50	--	<0.5	<1.0	<1.0	<1.0	22/22	--	--	7.9	--	k
12/19/1996	--		11.45	0.00	30.14	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	7.7	--	
3/17/1997	--		10.80	0.00	30.79	--	--	--	--	--	--	--	--	--	--	--	
8/12/1997	--		13.11	0.00	28.48	--	--	--	--	--	--	--	--	--	--	--	
12/10/1997	--		13.84	0.00	27.75	--	--	--	--	--	--	--	--	--	--	--	
3/12/1998	--		11.17	0.00	30.42	--	--	--	--	--	--	--	--	--	--	--	
6/23/1998	--		13.27	0.00	28.32	--	--	--	--	--	--	--	--	--	--	--	
3/31/1999	--		12.91	0.00	28.68	--	--	--	--	--	--	--	--	--	--	--	
8/25/1999	--		15.93	0.00	25.66	--	--	--	--	--	--	--	--	--	--	--	
3/9/2000	--		11.49	0.00	30.10	--	--	--	--	--	--	--	--	--	--	--	
3/8/2001	--		10.81	0.00	30.78	--	--	--	--	--	--	--	--	--	--	--	
3/8/2002	--		14.28	0.00	27.31	--	--	--	--	--	--	--	--	--	--	--	

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Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote	
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl				
MW-6 Cont.																		
3/18/2002	--	41.59	13.10	0.00	28.49	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2003	--		13.63	0.00	27.96	--	--	--	--	--	--	--	--	--	--	--	--	
12/09/2003	P		14.26	0.00	27.33	<50	--	<0.50	<0.50	<0.50	<0.50	12				--	6.4	
03/09/2004	NP		11.87	0.00	29.72	<50	--	<0.50	<0.50	<0.50	<0.50	10				--	7.1	
09/17/2004	--		16.45	0.00	25.14	--	--	--	--	--	--	--			--	--	--	
03/07/2005	P		13.65	0.00	27.94	<50	--	<0.50	<0.50	<0.50	<0.50	5.8				--	6.7	
09/06/2005	--	44.37	14.23	0.00	30.14	--	--	--	--	--	--	--	--	--	--	--	--	
03/06/2006	P		12.89	0.00	31.48	<50	--	<0.50	<0.50	<0.50	<0.50	8.1				--	6.8	
9/5/2006	--		14.10	0.00	30.27	--	--	--	--	--	--	--	--	--	--	--	--	
3/5/2007	P		11.43	0.00	32.94	<50	--	<0.50	<0.50	<0.50	<0.50	5.6	--	--	2.57	7.70		
9/7/2007	--		16.00	0.00	28.37	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2008	P		11.84	0.00	32.53	<50	--	<0.50	<0.50	<0.50	<0.50	1.9	--	--	2.34	6.81		
9/3/2008	--		16.24	0.00	28.13	--	--	--	--	--	--	--	--	--	--	--	--	
3/4/2009	P		11.68	0.00	32.69	<50	--	<0.50	<0.50	<0.50	<0.50	2.8	--	--	4.66	6.82		
9/30/2009	P	41.58	16.83	0.00	24.75	<50	--	<0.50	<0.50	<0.50	<0.50	4.4	--	--	0.10	7.00	x	
10/28/2009	--		15.63	0.00	25.95	--	--	--	--	--	--	--	--	--	--	--	--	
3/23/2010	P		11.48	0.00	30.10	<50	--	<0.50	<0.50	<0.50	<1.0	1.0	--	--	--	6.57		
6/10/2010	--		12.54	0.00	29.04	--	--	--	--	--	--	--	--	--	--	--	--	
9/16/2010	P		15.95	0.00	25.63	<50	--	<0.50	<0.50	<0.50	<1.0	0.80	--	--	--	6.38		
2/23/2011	P		12.34	0.00	29.24	--	--	--	--	--	--	<0.50	--	--	1.60	6.42		
9/28/2011	P		15.81	0.00	25.77	--	--	--	--	--	--	3.4	--	--	1.41	8.07		
MW-7																		
10/3/1991	--	40.64	14.93	0.00	25.71	360	--	62	13	3.4	20	--	--	--	--	--	--	
10/15/1991	--		15.16	0.00	25.48	--	--	--	--	--	--	--	--	--	--	--	--	
12/4/1991	--		15.41	0.00	25.23	--	--	--	--	--	--	--	--	--	--	--	--	
12/16/1991	--		15.21	0.00	25.43	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/1992	--		14.56	0.00	26.08	1,100	--	170	<0.5	24	23	--	--	--	--	--	--	
1/22/1992	--		14.63	0.00	26.01	--	--	--	--	--	--	--	--	--	--	--	--	
1/28/1992	--		14.73	0.00	25.91	--	--	--	--	--	--	--	--	--	--	--	--	
2/5/1992	--		14.58	0.00	26.06	--	--	--	--	--	--	--	--	--	--	--	--	

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Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-7 Cont.																	
2/12/1992	--	40.64	13.94	0.00	26.70	--	--	--	--	--	--	--	--	--	--	--	--
2/17/1992	--		13.10	0.00	27.54	--	--	--	--	--	--	--	--	--	--	--	
4/3/1992	--		12.66	0.00	27.98	--	--	--	--	--	--	--	--	--	--	--	--
4/8/1992	--		12.77	0.00	27.87	750	--	150	<0.5	23	9.9	--	--	--	--	--	--
4/14/1992	--		13.02	0.00	27.62	--	--	--	--	--	--	--	--	--	--	--	--
4/29/1992	--		13.59	0.00	27.05	--	--	--	--	--	--	--	--	--	--	--	--
5/7/1992	--		13.95	0.00	26.69	--	--	--	--	--	--	--	--	--	--	--	--
7/3/1992	--		14.73	0.00	25.91	660	--	210	<2.5	33	8	--	--	--	--	--	--
10/8/1992	--		15.75	0.00	24.89	320	--	49	1.4	13	6.2	--	--	--	--	--	--
12/31/1992	--		13.57	0.00	27.07	900	--	100	<2.5	28	4.3	--	--	--	--	--	--
4/21/1993	--		14.56	0.00	26.08	510	--	83	1.2	10	5.8	--	--	--	--	--	n
7/7/1993	--	40.32	13.40	0.00	26.92	1,100	--	170	1.9	29	2.84	9.84	--	--	--	--	h, n
7/7/1993	--		13.40	0.00	26.92	1,100	--	160	2	27	4	10.84	--	--	--	--	i, n
9/21/1993	--		14.40	0.00	25.92	640	--	140	1.7	23	2.4	--	--	--	--	--	h, n
9/21/1993	--		14.40	0.00	25.92	690	--	150	3.1	26	5.7	--	--	--	--	--	n
12/17/1993	--		13.65	0.00	26.67	--	--	--	--	--	--	--	--	--	--	--	
12/23/1993	--		--	--	250	--	64	1.2	9	1.8	7.81	--	--	--	--	--	n
4/7/1994	--		30.62	0.00	9.70	140	--	32	1.4	<0.5	<0.5	6.32	--	--	--	--	n
7/6/1994	--		16.88	0.00	23.44	410	--	94	1.3	10	3.5	<5.0	--	--	4.4	--	n
10/7/1994	--		25.59	0.00	14.73	<50	--	9.2	<0.5	<0.5	<0.5	<5.0	--	--	4.9	--	n
1/27/1995	--		9.82	0.00	30.50	930	--	620	4	77	21	--	--	--	--	--	h
1/27/1995	--		9.82	0.00	30.50	810	--	570	3	60	17	--	--	--	0.0	--	
3/30/1995	--		9.15	0.00	31.17	180	--	65	0.53	2	<1.0	--	--	--	7.8	--	
6/20/1995	--		11.38	0.00	28.94	2,800	--	980	<5.0	<5.0	43	--	--	--	--	--	
10/3/1995	--		29.95	0.00	10.37	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	
12/6/1995	--		29.85	0.00	10.47	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	
3/21/1996	--		9.76	0.00	30.56	1,000	--	390	2	40	13	<10	--	--	7.4	--	
6/21/1996	--		11.01	0.00	29.31	<250	--	40	<5	<5	<5	<50	--	--	7.4	--	
9/6/1996	--		11.68	0.00	28.64	--	--	--	--	--	--	--	--	--	--	--	
9/9/1996	--		--	--	--	<250	--	13	<5.0	<5.0	<5.0	<50	--	--	7.2	--	

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Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-7 Cont.																	
12/19/1996	--	40.32	10.78	0.00	29.54	70	--	1.2	<1.0	1	<1.0	<10	--	--	8.3	--	
3/17/1997	--		9.96	0.00	30.36	--	--	--	--	--	--	--	--	--	--	--	
8/12/1997	--		11.44	0.00	28.88	--	--	--	--	--	--	--	--	--	--	--	
12/10/1997	--		10.42	0.00	29.90	--	--	--	--	--	--	--	--	--	--	--	
3/12/1998	--		9.51	0.00	30.81	--	--	--	--	--	--	--	--	--	--	--	
6/23/1998	--		9.98	0.00	30.34	--	--	--	--	--	--	--	--	--	--	--	
3/31/1999	--		10.38	0.00	29.94	--	--	--	--	--	--	--	--	--	--	--	
8/25/1999	--		12.38	0.00	27.94	--	--	--	--	--	--	--	--	--	--	--	
3/9/2000	--		8.48	0.00	31.84	--	--	--	--	--	--	--	--	--	--	--	
3/8/2001	--		8.37	0.00	31.95	--	--	--	--	--	--	--	--	--	--	--	
3/8/2002	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	f
3/18/2002	--		9.94	0.00	30.38	--	--	--	--	--	--	--	--	--	--	--	
3/11/2003	--		11.26	0.00	29.06	--	--	--	--	--	--	--	--	--	--	--	
12/09/2003	P		12.76	0.00	27.56	270	--	26	<0.50	<0.50	<0.50	8.7			--	6.1	
03/09/2004	P		10.91	0.00	29.41	320	--	49	0.73	1.8	0.59	6.9			--	6.2	
09/17/2004	P		13.20	0.00	27.12	330	--	17	<0.50	<0.50	<0.50	7.0			--	6.6	
03/07/2005	P		8.18	0.00	32.14	340	--	41	0.79	0.79	0.73	7.2			--	6.9	
09/06/2005	P	43.10	11.80	0.00	31.30	1,100	--	130	1.2	1.8	<1.5	16			--	6.7	
03/06/2006	P		8.39	0.00	34.71	440	--	31	0.78	0.74	0.81	8.3			--	7.1	
9/5/2006	--		11.45	0.00	31.65	2,000	--	260	3.1	5.9	<2.5	12	--	--	--	6.6	
3/5/2007	P		9.31	0.00	33.79	2,200	--	110	2.2	4.0	1.8	7.6	--	--	1.06	7.26	
9/7/2007	P		12.18	0.00	30.92	220	--	8.4	<0.50	<0.50	<0.50	1.2	--	--	0.98	6.89	
3/6/2008	P		10.05	0.00	33.05	1,800	--	54	1.2	1.1	<1.0	<1.0	--	--	--	7.02	
9/3/2008	P		13.17	0.00	29.93	540	--	13	0.69	<0.50	<0.50	5.5	--	--	4.77	6.88	
3/4/2009	P		8.25	0.00	34.85	720	--	15	0.59	0.53	<0.50	3.4	--	--	1.29	6.93	
9/30/2009	P	40.40	12.70	0.00	27.70	1,200	--	44	1.0	0.74	0.79	3.3	--	--	0.11	6.94	x
10/28/2009	--		11.17	0.00	29.23	--	--	--	--	--	--	--	--	--	--	--	
3/23/2010	P		9.28	0.00	31.12	480	--	11	<0.50	<0.50	<1.0	<0.50	--	--	0.38	6.57	
6/10/2010	--		10.24	0.00	30.16	--	--	--	--	--	--	--	--	--	--	--	
9/16/2010	P		12.16	0.00	28.24	4,700	--	130	<5.0	7.4	<10	<5.0	--	--	0.98	6.36	

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						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-7 Cont.																	
2/23/2011	P	40.40	9.62	0.00	30.78	2,200	--	26	1.1	1.4	1.6	4.0	--	--	0.72	6.56	
9/28/2011	P		11.80	0.00	28.60	3,800	--	380	4.8	28	4.3	9.5	--	--	0.98	7.08	
MW-8																	
10/3/1991	--	38.18	22.37	0.00	15.81	<50	--	<0.3	0.6	<0.3	0.9	--	--	--	--	--	
10/15/1991	--		22.70	0.00	15.48	--	--	--	--	--	--	--	--	--	--	--	
12/4/1991	--		22.44	0.00	15.74	--	--	--	--	--	--	--	--	--	--	--	
12/16/1991	--		22.47	0.00	15.71	--	--	--	--	--	--	--	--	--	--	--	
1/6/1992	--		21.94	0.00	16.24	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
1/22/1992	--		21.44	0.00	16.74	--	--	--	--	--	--	--	--	--	--	--	
1/28/1992	--		21.20	0.00	16.98	--	--	--	--	--	--	--	--	--	--	--	
2/5/1992	--		20.88	0.00	17.30	--	--	--	--	--	--	--	--	--	--	--	
2/12/1992	--		20.54	0.00	17.64	--	--	--	--	--	--	--	--	--	--	--	
2/17/1992	--		19.99	0.00	18.19	--	--	--	--	--	--	--	--	--	--	--	
4/3/1992	--		16.75	0.00	21.43	--	--	--	--	--	--	--	--	--	--	--	
4/8/1992	--		16.57	0.00	21.61	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
4/14/1992	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	f
4/29/1992	--		18.61	0.00	19.57	--	--	--	--	--	--	--	--	--	--	--	
5/7/1992	--		18.41	0.00	19.77	--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		20.35	0.00	17.83	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
10/8/1992	--		21.74	0.00	16.44	--	--	--	--	--	--	--	--	--	--	--	f
12/31/1992	--		19.09	0.00	19.09	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
4/21/1993	--		18.92	0.00	19.26	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	n
7/7/1993	--		17.76	0.00	20.42	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	n
9/21/1993	--		19.71	0.00	18.47	<50	--	2.9	2.2	2.2	7.1	--	--	--	--	--	n
12/17/1993	--		21.33	0.00	16.85	--	--	--	--	--	--	--	--	--	--	--	
12/23/1993	--		--	--	--	<50	--	<0.5	<0.5	<0.5	0.6	<5.0	--	--	--	--	n
4/7/1994	--		21.51	0.00	16.67	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	6.6	--	n
7/6/1994	--		17.41	0.00	20.77	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	4.4	--	n
10/7/1994	--		19.20	0.00	18.98	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	3.7	--	n
1/27/1995	--		12.25	0.00	25.93	<50	--	<0.5	<0.5	<0.5	<1	--	--	--	2.9	--	

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						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOC			
MW-8 Cont.																	
3/30/1995	--	38.18	10.35	0.00	27.83	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	8.3	--	
6/20/1995	--		13.37	0.00	24.81	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	6.9	--	
10/3/1995	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	f
12/6/1995	--		18.42	0.00	19.76	<50	--	<0.50	<0.50	<0.50	<1.0	47	--	--	5.3	--	
3/21/1996	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	f
6/21/1996	--		13.03	0.00	25.15	<50	--	<0.5	<1	<1	<1	<10	--	--	7.0	--	
9/6/1996	--		13.70	0.00	24.48	--	--	--	--	--	--	--	--	--	--	--	
9/9/1996	--		--	--	--	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	7.0	--	
12/19/1996	--		11.93	0.00	26.25	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	7.6	--	
3/17/1997	--		11.29	0.00	26.89	--	--	--	--	--	--	--	--	--	--	--	
8/12/1997	--		13.73	0.00	24.45	--	--	--	--	--	--	--	--	--	--	--	
12/10/1997	--		11.88	0.00	26.30	--	--	--	--	--	--	--	--	--	--	--	
3/12/1998	--		11.89	0.00	26.29	--	--	--	--	--	--	--	--	--	--	--	
6/23/1998	--		11.33	0.00	26.85	--	--	--	--	--	--	--	--	--	--	--	
3/31/1999	--		12.68	0.00	25.50	--	--	--	--	--	--	--	--	--	--	--	
8/25/1999	--		14.93	0.00	23.25	--	--	--	--	--	--	--	--	--	--	--	
3/9/2000	--		9.14	0.00	29.04	--	--	--	--	--	--	--	--	--	--	--	
3/8/2001	--		8.41	0.00	29.77	--	--	--	--	--	--	--	--	--	--	--	
3/8/2002	--		11.18	0.00	27.00	--	--	--	--	--	--	--	--	--	--	--	
3/18/2002	--		10.72	0.00	27.46	--	--	--	--	--	--	--	--	--	--	--	
3/11/2003	--		10.46	0.00	27.72	--	--	--	--	--	--	--	--	--	--	--	
03/09/2004	P		9.79	0.00	28.39	<50	--	<0.50	<0.50	<0.50	<0.50	0.50			--	7.2	
09/17/2004	--		15.35	0.00	22.83	--	--	--	--	--	--	--	--	--	--	--	
03/07/2005	P		7.94	0.00	30.24	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50			--	6.7	
09/06/2005	--	40.95	13.06	0.00	27.89	--	--	--	--	--	--	--	--	--	--	--	
03/06/2006	P		9.26	0.00	31.69	<50	--	<0.50	<0.50	<0.50	<0.50	0.59			--	7.2	u
9/5/2006	--		12.61	0.00	28.34	--	--	--	--	--	--	--	--	--	--	--	
3/5/2007	P		9.12	0.00	31.83	<50	--	<0.50	<0.50	<0.50	0.53	<0.50	--	--	6.79	7.17	
9/7/2007	--		13.56	0.00	27.39	--	--	--	--	--	--	--	--	--	--	--	
3/6/2008	P		9.80	0.00	31.15	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	4.14	6.86	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-8 Cont.																	
9/3/2008	--	40.95	14.20	0.00	26.75	--	--	--	--	--	--	--	--	--	--	--	--
3/4/2009	P			9.51	0.00	31.44	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	2.62	6.96
9/30/2009	--	38.19	14.92	0.00	23.27	--	--	--	--	--	--	--	--	--	--	--	x
10/28/2009	--			13.56	0.00	24.63	--	--	--	--	--	--	--	--	--	--	--
3/23/2010	--			--	--	--	--	--	--	--	--	--	--	--	--	--	f
6/10/2010	--			11.06	0.00	27.13	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	P			14.41	0.00	23.78	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	1.14	6.68
2/23/2011	--			--	--	--	--	--	--	--	--	--	--	--	--	--	f, car parked on well
9/28/2011	--			13.87	0.00	24.32	--	--	--	--	--	--	--	--	--	--	
MW-9																	
10/3/1991	--	41.25	14.12	0.00	27.13	<50	--	<0.3	0.4	<0.3	<0.3	--	--	--	--	--	--
10/15/1991	--			14.27	0.00	26.98	--	--	--	--	--	--	--	--	--	--	--
12/4/1991	--			13.84	0.00	27.41	--	--	--	--	--	--	--	--	--	--	--
12/16/1991	--			14.18	0.00	27.07	--	--	--	--	--	--	--	--	--	--	--
1/6/1992	--			13.42	0.00	27.83	<50	--	<0.5	<0.5	<0.5	0.9	--	--	--	--	--
1/22/1992	--			13.75	0.00	27.50	--	--	--	--	--	--	--	--	--	--	--
1/28/1992	--			14.76	0.00	26.49	--	--	--	--	--	--	--	--	--	--	--
2/5/1992	--			13.38	0.00	27.87	--	--	--	--	--	--	--	--	--	--	--
2/12/1992	--			11.86	0.00	29.39	--	--	--	--	--	--	--	--	--	--	--
2/17/1992	--			10.78	0.00	30.47	--	--	--	--	--	--	--	--	--	--	--
4/3/1992	--			11.63	0.00	29.62	--	--	--	--	--	--	--	--	--	--	--
4/8/1992	--			12.25	0.00	29.00	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
4/14/1992	--			12.32	0.00	28.93	--	--	--	--	--	--	--	--	--	--	--
4/29/1992	--			13.07	0.00	28.18	--	--	--	--	--	--	--	--	--	--	--
5/7/1992	--			14.43	0.00	26.82	--	--	--	--	--	--	--	--	--	--	--
7/3/1992	--			13.85	0.00	27.40	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/8/1992	--			14.89	0.00	26.36	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/31/1992	--			11.90	0.00	29.35	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
4/21/1993	--			13.68	0.00	27.57	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	n
7/7/1993	--			13.12	0.00	28.13	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	n

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
MW-9 Cont.																	
9/21/1993	--	41.25	14.00	0.00	27.25	<50	--	<0.5	<0.5	<0.5	0.9	--	--	--	--	--	n
12/17/1993	--		12.98	0.00	28.27	--	--	--	--	--	--	--	--	--	--	--	
12/23/1993	--		--	--	--	<50	--	<0.5	<0.5	<0.5	0.9	<5.0	--	--	--	--	n
4/7/1994	--		13.24	0.00	28.01	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	4.7	--	n
7/6/1994	--		13.77	0.00	27.48	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	3.9	--	n
10/7/1994	--		14.60	0.00	26.65	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	3.0	--	n
1/27/1995	--		8.47	0.00	32.78	<50	--	<0.5	<0.5	<0.5	<1	--	--	--	2.5	--	
3/30/1995	--		8.19	0.00	33.06	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	8.4	--	
6/20/1995	--		11.25	0.00	30.00	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	8.1	--	
10/3/1995	--		14.68	0.00	26.57	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	6.0	--	
12/6/1995	--		16.07	0.00	25.18	<50	--	<0.50	<0.50	<0.50	<1.0	46	--	--	5.4	--	
3/21/1996	--		9.60	0.00	31.65	<50	--	<0.5	<1	<1	<1	<10	--	--	8.0	--	
6/21/1996	--		10.86	0.00	30.39	<50	--	<0.5	<1	<1	<1	<10	--	--	7.8	--	
9/6/1996	--		11.52	0.00	29.73	--	--	--	--	--	--	--	--	--	--	--	
9/9/1996	--		--	--	--	<50	--	<0.5	<1.0	<1.0	<1.0	20/21	--	--	7.3	--	k
12/19/1996	--		10.43	0.00	30.82	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	7.3	--	
3/17/1997	--		9.87	0.00	31.38	--	--	--	--	--	--	--	--	--	--	--	
8/12/1997	--		11.44	0.00	29.81	--	--	--	--	--	--	--	--	--	--	--	
12/10/1997	--		10.44	0.00	30.81	--	--	--	--	--	--	--	--	--	--	--	
3/12/1998	--		9.50	0.00	31.75	--	--	--	--	--	--	--	--	--	--	--	
6/23/1998	--		10.06	0.00	31.19	--	--	--	--	--	--	--	--	--	--	--	
3/31/1999	--		9.06	0.00	32.19	--	--	--	--	--	--	--	--	--	--	--	
8/25/1999	--		12.00	0.00	29.25	--	--	--	--	--	--	--	--	--	--	--	
3/9/2000	--		10.57	0.00	30.68	--	--	--	--	--	--	--	--	--	--	--	
3/8/2001	--		9.73	0.00	31.52	--	--	--	--	--	--	--	--	--	--	--	
3/8/2002	--		11.89	0.00	29.36	--	--	--	--	--	--	--	--	--	--	--	
3/18/2002	--		9.68	0.00	31.57	--	--	--	--	--	--	--	--	--	--	--	
3/11/2003	--		9.21	0.00	32.04	--	--	--	--	--	--	--	--	--	--	--	
03/09/2004	--		10.99	0.00	30.26	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	6.6	
09/17/2004	--		13.35	0.00	27.90	--	--	--	--	--	--	--	--	--	--	--	

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Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote	
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl				
MW-9 Cont.																		
03/07/2005	P	41.25	8.94	0.00	32.31	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	6.9		
09/06/2005	--	44.06	11.99	0.00	32.07	--	--	--	--	--	--	--	--	--	--	--		
03/06/2006	P		8.26	0.00	35.80	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	6.9	u	
9/5/2006	--		11.63	0.00	32.43	--	--	--	--	--	--	--	--	--	--	--		
3/5/2007	P		9.33	0.00	34.73	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	2.22	7.03	
9/7/2007	--		12.28	0.00	31.78	--	--	--	--	--	--	--	--	--	--	--		
3/6/2008	P		10.11	0.00	33.95	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	3.72	6.90	
9/3/2008	--		13.49	0.00	30.57	--	--	--	--	--	--	--	--	--	--	--		
3/4/2009	P		8.15	0.00	35.91	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	4.03	6.84	
9/30/2009	--	41.25	12.98	0.00	28.27	--	--	--	--	--	--	--	--	--	--	--	x	
10/28/2009	--		11.98	0.00	29.27	--	--	--	--	--	--	--	--	--	--	--		
3/23/2010	P		10.59	0.00	30.66	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	0.86	6.54		
6/10/2010	--		10.25	0.00	31.00	--	--	--	--	--	--	--	--	--	--	--		
9/16/2010	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	f	
2/23/2011	--		9.71	0.00	31.54	--	--	--	--	--	--	--	--	--	--	--		
9/28/2011	--		11.66	0.00	29.59	--	--	--	--	--	--	--	--	--	--	--		
MW-10																		
6/16/2009	--	39.78	8.60	0.01	31.19	--	--	--	--	--	--	--	--	--	--	--	x	
7/22/2009	--		9.68	0.01	30.11	--	--	--	--	--	--	--	--	--	--	--		
8/6/2009	--		9.48	0.00	30.30	--	--	--	--	--	--	--	--	--	--	--		
9/30/2009	--		9.69	0.01	30.10	--	--	--	--	--	--	--	--	--	--	--		
10/28/2009	P		8.53	0.00	31.25	62,000	--	8,300	5,300	3,100	12,000	<50	--	--	1.14	6.9	z	
3/23/2010	P		7.70	Sheen	32.08	58,000	--	6,500	4,800	2,300	9,700	<100	--	--	0.71	6.69		
6/10/2010	--		8.93	0.01	30.86	--	--	--	--	--	--	--	--	--	--	--		
9/16/2010	--		9.69	0.01	30.10	--	--	--	--	--	--	--	--	--	--	--		
2/23/2011	P		7.99	0.00	31.79	61,000	--	7,000	5,300	2,800	12,000	<100	--	--	0.79	6.68	cc	
9/28/2011	--		10.36	0.29	29.64	--	--	--	--	--	--	--	--	--	--	--		
MW-11																		
9/30/2009	P	40.04	10.55	0.00	29.49	30,000	--	850	1,400	1,000	3,700	27	--	--	--	7.09	x	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOc			
MW-11 Cont.																	
10/28/2009	P	40.04	8.00	0.00	32.04	27,000	--	1,100	2,300	1,500	5,800	<50	--	--	0.82	6.74	
3/23/2010	P		7.25	0.00	32.79	19,000	--	530	830	790	2,200	<25	--	--	0.66	6.64	
6/10/2010	--		9.65	Sheen	30.39	--	--	--	--	--	--	--	--	--	--	--	
9/16/2010	P		9.42	0.00	30.62	5,500	--	400	250	320	410	11	--	--	0.62	6.36	aa
2/23/2011	P		7.60	0.00	32.44	10,000	--	380	260	330	540	7.2	--	--	0.80	6.62	
9/28/2011	P		9.88	0.00	30.16	5,900	--	230	92	260	370	6.4	--	--	0.70	7.02	
MW-12																	
9/30/2009	--	40.32	11.02	0.02	29.32	--	--	--	--	--	--	--	--	--	--	--	x
10/28/2009	P		10.40	0.00	29.92	43,000	--	5,800	800	2,900	6,800	<50	--	--	0.73	6.7	z
3/23/2010	P		11.46	Sheen	28.86	39,000	--	4,800	1,000	3,100	6,400	<25	--	--	1.06	6.60	
6/10/2010	--		11.35	Sheen	28.97	--	--	--	--	--	--	--	--	--	--	--	
9/16/2010	--		11.54	0.02	28.80	--	--	--	--	--	--	--	--	--	--	--	
2/23/2011	--		10.80	0.10	29.60	--	--	--	--	--	--	--	--	--	--	--	bb
9/28/2011	--		11.48	0.20	28.99	--	--	--	--	--	--	--	--	--	--	--	
QC-2																	
10/8/1992	--	41.25	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	1
12/31/1992	--		--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	1
4/21/1993	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	1, n
7/7/1993	--		--	--	--	<50	--	<0.5	<0.5	<0.5	0.6	--	--	--	--	--	1, n
9/21/1993	--		--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	1, n
12/23/1993	--		--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	1
4/7/1994	--		--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	1
7/6/1994	--		--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	1
10/7/1994	--		--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	1
1/27/1995	--		--	--	--	<50	--	<0.5	0.5	<0.5	<1	--	--	--	--	--	1
3/30/1995	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	1
6/20/1995	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	--	--	--	--	--	1
10/3/1995	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	1
12/6/1995	--		--	--	--	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	1

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Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L									DO (mg/L)	pH	Footnote
						GRO/TPHg	DRO/TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	TOG	HVOCl			
QC-2 Cont.						<50	--	<0.5	<1	<1	<1	<10	--	--	--	--	
3/21/1996	--	41.25	--	--	--	<50	--	<0.5	<1	<1	<1	<10	--	--	--	--	1
6/21/1996	--	--	--	--	--	<50	--	<0.5	<1	<1	<1	<10	--	--	--	--	1

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

GRO = Gasoline range organics, range C4-C12

GWE = Groundwater elevation in ft

mg/L = Milligrams per liter

MTBE = Methyl tert-butyl ether

ND = Not detected

NP = Well not purged prior to sampling

P = Well purged prior to sampling

TOC = Top of casing elevation in ft

TPH-g = Total petroleum hydrocarbons as gasoline

µg/L = Micrograms per liter

ANA = Anametrix, Inc.

PACE = Pace, Inc.

ATI = Analytical Technologies, Inc.

CEI = Ceimic Corporation

SPL = Southern Petroleum Laboratories

SEQ/SEQM= Sequoia Analytical/Sequoia Analytical - Morgan Hill (Laboratories)

SUP = Superior Analytical Laboratory

Footnotes:

a = Free product in well

c = Well destroyed during tank removal in November 1990

d = Methylene chloride

e = 1,2-Dichloroethane

f = Well inaccessible

g = Sample collected from MW-2 for TPH-d analysis received in laboratory 7 days after collection; sample exceeded EPA recommended holding time for TPH-d on a water matrix

h = Blind duplicate

i = TOC lowered

j = A copy of the documentation for this data is included in Appendix C of Alisto report 10-014-07-001

k = EPA Methods 8020/8260 used

l = Travel blank

n = A copy of the documentation for this data is included in the Blaine Tech Services, Inc. report 020308-DW-2. The data for samples taken on April 21, 1993, have been destroyed. No chromatograms could be located for the samples taken on: July 7, 1993, for well MW-2 and TB; September 21, 1993, for all wells MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, the DUP and TB; December 23, 1993, for wells MW-2 and MW-3; and July 6, 1994, for wells MW-2, MW-4, MW-6, and MW-9

p = Well not sampled due to damage during site construction

q = Sheen in well

r = Well dry

s = The hydrocarbon result for GRO was partly due to individual peaks in the quantification range

t = MS and/or MSD were below the acceptance limits for MTBE. Matrix interference was suspected

u = Possible high bias for benzene due to CCV falling outside acceptance criteria

v = The sample concentration is greater than four times the spike concentration

w = Insufficient water to sample

x = Well surveyed 4/13/2009

y = Quantitation of unknown hydrocarbon(s) in sample based on gasoline

z = Free product not observed during initial gauging activities, but was observed following or during purge

aa = Strong Hydrocarbon Odor

bb = Not bailed, on site drum is full

cc = Sheen during purge

Notes:

GWE adjusted assuming a specific gravity of 0.75 for free product

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

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 September 30, 2009. GRO analysis was changed to EPA method 8260B (C6-C12) for the time period October 1, 2009 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 #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2									
9/21/1993	--	--	21.54	--	--	--	--	--	
4/7/1994	--	--	12.2	--	--	--	--	--	
10/7/1994	--	--	15.2	--	--	--	--	--	
10/3/1995	--	--	<5.0	--	--	--	--	--	
12/6/1995	--	--	46	--	--	--	--	--	
3/21/1996	--	--	<1.0	--	--	--	--	--	
6/21/1996	--	--	<10	--	--	--	--	--	
9/9/1996	--	--	<10	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
12/09/2003	<100	<20	24	<0.50	<0.50	<0.50	--	--	
03/09/2004	<100	<20	27	<0.50	<0.50	<0.50	<0.50	<0.50	
09/17/2004	<100	<20	21	<0.50	<0.50	<0.50	<0.50	<0.50	
9/5/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3									
7/7/1993	--	--	12.68	--	--	--	--	--	
4/7/1994	--	--	18.2	--	--	--	--	--	
7/6/1994	--	--	5.54	--	--	--	--	--	
10/7/1994	--	--	31.4	--	--	--	--	--	
10/3/1995	--	--	6.7	--	--	--	--	--	
12/6/1995	--	--	53	--	--	--	--	--	
12/6/1995	--	--	64	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
6/21/1996	--	--	12	--	--	--	--	--	
9/9/1996	--	--	<50	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
3/17/1997	--	--	<10	--	--	--	--	--	
8/12/1997	--	--	10	--	--	--	--	--	
12/10/1997	--	--	<10	--	--	--	--	--	
3/12/1998	--	--	<10	--	--	--	--	--	
3/12/1998	--	--	<10	--	--	--	--	--	
6/23/1998	--	--	<10	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-3 Cont.									
3/31/1999	--	--	6.2	--	--	--	--	--	
8/25/1999	--	--	7.7	--	--	--	--	--	
3/9/2000	--	--	6.3	--	--	--	--	--	
3/8/2001	--	--	7.7	--	--	--	--	--	
3/8/2002	--	--	11.6	--	--	--	--	--	
3/11/2003	--	--	6.7	--	--	--	--	--	
12/09/2003	<100	<20	6.4	<0.50	<0.50	<0.50	--	--	
03/09/2004	<100	<20	6.9	<0.50	<0.50	<0.50	<0.50	<0.50	
03/07/2005	<100	<20	5.1	<0.50	<0.50	<0.50	<0.50	<0.50	
03/06/2006	<300	<20	6.9	<0.50	<0.50	<0.50	<0.50	<0.50	
3/5/2007	<300	<20	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	
3/6/2008	<300	<10	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2009	<300	<10	4.9	<0.50	<0.50	<0.50	<0.50	<0.50	
9/30/2009	<300	<10	6.8	<0.50	<0.50	<0.50	<0.50	<0.50	
3/23/2010	<100	<4.0	3.2	<0.50	<0.50	<0.50	<0.50	<0.50	
9/16/2010	<100	<4.0	5.9	<0.50	<0.50	<0.50	<0.50	<0.50	
2/23/2011	--	--	0.58	--	--	--	--	--	
9/28/2011	--	--	3.2	--	--	--	--	--	
MW-4									
7/7/1993	--	--	5.51	--	--	--	--	--	
12/23/1993	--	--	5.7	--	--	--	--	--	
4/7/1994	--	--	11.7	--	--	--	--	--	
10/7/1994	--	--	7.38	--	--	--	--	--	
10/3/1995	--	--	5	--	--	--	--	--	
12/6/1995	--	--	47	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
6/21/1996	--	--	<10	--	--	--	--	--	
9/9/1996	--	--	<10	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
12/09/2003	<500	<100	130	<2.5	<2.5	2.7	--	--	
03/09/2004	<100	<20	35	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
09/17/2004	<500	<100	140	<2.5	<2.5	2.6	<2.5	<2.5	
03/07/2005	<100	<20	42	<0.50	<0.50	0.56	<0.50	<0.50	
09/06/2005	<150	<10	180	<0.50	<0.50	2.8	<0.50	<0.50	a
03/06/2006	<600	<40	110	<1.0	<1.0	1.4	<1.0	<1.0	
9/5/2006	<600	<40	190	<1.0	<1.0	1.7	<1.0	<1.0	
3/5/2007	<300	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	
9/7/2007	<300	<20	130	<0.50	<0.50	1.7	<0.50	<0.50	b (MTBE)
3/6/2008	<300	14	170	<0.50	<0.50	2.1	<0.50	<0.50	
9/3/2008	<3,000	<100	150	<5.0	<5.0	<5.0	<5.0	<5.0	
3/4/2009	<3,000	<100	110	<5.0	<5.0	<5.0	<5.0	<5.0	
9/30/2009	<1,200	<40	140	<2.0	<2.0	<2.0	<2.0	<2.0	
3/23/2010	<100	18	84	<0.50	<0.50	0.88	<0.50	<0.50	
9/16/2010	<100	8.0	72	<0.50	<0.50	0.82	<0.50	<0.50	
2/23/2011	--	--	55	--	--	--	--	--	
9/28/2011	--	--	62	--	--	--	--	--	
MW-5									
4/7/1994	--	--	2,002	--	--	--	--	--	
7/6/1994	--	--	1,141	--	--	--	--	--	
10/7/1994	--	--	37.7	--	--	--	--	--	
10/3/1995	--	--	320	--	--	--	--	--	
10/3/1995	--	--	330	--	--	--	--	--	
12/6/1995	--	--	600	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
6/21/1996	--	--	<100	--	--	--	--	--	
6/21/1996	--	--	<50	--	--	--	--	--	
9/9/1996	--	--	<2500	--	--	--	--	--	
9/9/1996	--	--	<2500	--	--	--	--	--	
12/19/1996	--	--	<500	--	--	--	--	--	
12/19/1996	--	--	<500	--	--	--	--	--	
3/17/1997	--	--	29	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5 Cont.									
3/17/1997	--	--	28	--	--	--	--	--	
8/12/1997	--	--	<500	--	--	--	--	--	
8/12/1997	--	--	<1000	--	--	--	--	--	
12/10/1997	--	--	500	--	--	--	--	--	
3/12/1998	--	--	<250	--	--	--	--	--	
6/23/1998	--	--	<500	--	--	--	--	--	
6/23/1998	--	--	<250	--	--	--	--	--	
8/25/1999	--	--	26	--	--	--	--	--	
3/9/2000	--	--	<5.0	--	--	--	--	--	
3/8/2002	--	--	34.3	--	--	--	--	--	
03/09/2004	<10,000	<2,000	<50	<50	<50	<50	96	<50	
03/06/2006	<30,000	<2,000	<50	60	<50	<50	<50	<50	
3/5/2007	<30,000	<2,000	<50	57	<50	<50	<50	<50	
3/23/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
MW-6									
7/7/1993	--	--	28.96	--	--	--	--	--	
12/23/1993	--	--	13.95	--	--	--	--	--	
4/7/1994	--	--	35.1	--	--	--	--	--	
10/7/1994	--	--	24.3	--	--	--	--	--	
10/3/1995	--	--	66	--	--	--	--	--	
12/6/1995	--	--	45	--	--	--	--	--	
3/21/1996	--	--	41	--	--	--	--	--	
6/21/1996	--	--	<10	--	--	--	--	--	
9/9/1996	--	--	22/22	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
12/09/2003	<100	<20	12	<0.50	<0.50	<0.50	--	--	
03/09/2004	<100	<20	10	<0.50	<0.50	<0.50	0.58	<0.50	
03/07/2005	<100	<20	5.8	<0.50	<0.50	<0.50	<0.50	<0.50	
03/06/2006	<300	<20	8.1	<0.50	<0.50	<0.50	<0.50	<0.50	
3/5/2007	<300	<20	5.6	<0.50	<0.50	<0.50	<0.50	<0.50	
3/6/2008	<300	<10	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-6 Cont.									
3/4/2009	<300	<10	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	
9/30/2009	<300	<10	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	
3/23/2010	<100	<4.0	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	
9/16/2010	<100	<4.0	0.80	<0.50	<0.50	<0.50	<0.50	<0.50	
2/23/2011	--	--	<0.50	--	--	--	--	--	
9/28/2011	--	--	3.4	--	--	--	--	--	
MW-7									
7/7/1993	--	--	9.84	--	--	--	--	--	
7/7/1993	--	--	10.84	--	--	--	--	--	
12/23/1993	--	--	7.81	--	--	--	--	--	
4/7/1994	--	--	6.32	--	--	--	--	--	
7/6/1994	--	--	<5.0	--	--	--	--	--	
10/7/1994	--	--	<5.0	--	--	--	--	--	
10/3/1995	--	--	<5.0	--	--	--	--	--	
12/6/1995	--	--	<5.0	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
6/21/1996	--	--	<50	--	--	--	--	--	
9/9/1996	--	--	<50	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
12/09/2003	<100	<20	8.7	<0.50	<0.50	<0.50	--	--	
03/09/2004	<100	<20	6.9	<0.50	<0.50	<0.50	1.2	<0.50	
09/17/2004	<100	<20	7.0	<0.50	<0.50	<0.50	<0.50	<0.50	
03/07/2005	<100	<20	7.2	<0.50	<0.50	<0.50	<0.50	<0.50	
09/06/2005	<150	30	16	0.60	<0.50	<0.50	<0.50	<0.50	
03/06/2006	<300	<20	8.3	<0.50	<0.50	<0.50	<0.50	<0.50	
9/5/2006	<1,500	<100	12	<2.5	<2.5	<2.5	<2.5	<2.5	
3/5/2007	<600	<40	7.6	<1.0	<1.0	<1.0	<1.0	<1.0	
9/7/2007	<300	<20	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	
3/6/2008	<600	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
9/3/2008	<300	17	5.5	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2009	<300	12	3.4	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7 Cont.									
9/30/2009	<300	<10	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	
3/23/2010	<100	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/16/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
2/23/2011	<250	<4.0	4.0	<0.50	<0.50	<0.50	<5.0	<5.0	
9/28/2011	<250	13	9.5	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-8									
7/7/1993	--	--	<5.0	--	--	--	--	--	
12/23/1993	--	--	<5.0	--	--	--	--	--	
4/7/1994	--	--	<5.0	--	--	--	--	--	
7/6/1994	--	--	<5.0	--	--	--	--	--	
10/7/1994	--	--	<5.0	--	--	--	--	--	
12/6/1995	--	--	47	--	--	--	--	--	
6/21/1996	--	--	<10	--	--	--	--	--	
9/9/1996	--	--	<10	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
03/09/2004	<100	<20	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/07/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/06/2006	<300	<20	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	
3/5/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/6/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/16/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-9									
7/7/1993	--	--	<5.0	--	--	--	--	--	
12/23/1993	--	--	<5.0	--	--	--	--	--	
4/7/1994	--	--	<5.0	--	--	--	--	--	
10/7/1994	--	--	<5.0	--	--	--	--	--	
10/3/1995	--	--	<5.0	--	--	--	--	--	
12/6/1995	--	--	46	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
6/21/1996	--	--	<10	--	--	--	--	--	
9/9/1996	--	--	20/21	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
03/09/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/07/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
03/06/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/5/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/6/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/23/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-10									
10/28/2009	<10,000	<400	<50	<50	<50	<50	<50	<50	
3/23/2010	<20,000	<800	<100	<100	<100	<100	<100	<100	
2/23/2011	<50,000	<800	<100	<100	<100	<100	<100	<100	
MW-11									
9/30/2009	<6,000	<200	27	<10	<10	<10	<10	<10	
10/28/2009	<10,000	<400	<50	<50	<50	<50	<50	<50	
3/23/2010	<5,000	<200	<25	<25	<25	<25	<25	<25	
9/16/2010	<500	<20	11	<2.5	<2.5	<2.5	<2.5	<2.5	
2/23/2011	<2,500	<40	7.2	<5.0	<5.0	<5.0	<5.0	<5.0	
9/28/2011	<1,300	26	6.4	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-12									
10/28/2009	<10,000	<400	<50	<50	<50	<50	<50	<50	
3/23/2010	<5,000	<200	<25	<25	<25	<25	<25	<25	
QC-2									
10/3/1995	--	--	<5.0	--	--	--	--	--	
12/6/1995	--	--	<5.0	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
6/21/1996	--	--	<10	--	--	--	--	--	

Symbols & Abbreviations:

TBA = tert-Butyl alcohol

MTBE = Methyl tert-butyl ether

DIPE = Diisopropyl ether

ETBE = Ethyl tert-butyl ether

TAME = tert-Amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

µg/L = micrograms per liter

< = Not detected at or above specified laboratory reporting limit

-- = Data not available, not analyzed, or not applicable

Footnotes:

a = MS and/or MSD below acceptance limits for MTBE. Matrix interference suspected

b = The sample concentration is greater than four times the spike concentration

Notes:

All fuel oxygenate 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 Gradient - Direction and Magnitude
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Date Measured	Approximate Gradient Direction	Approximate Gradient Magnitude (ft/ft)
3/6/2006	Southwest	0.05
9/5/2006	Southwest	0.05
2/21/2007	Southwest	0.02
9/7/2007	Southwest	0.03
3/6/2008	Southwest	0.01
9/3/2008	Southwest	0.006
3/4/2009	Southwest	0.02
9/30/2009	Northwest	0.07
10/28/2009	Northwest	0.04
3/23/2010	Northwest	0.03
6/10/2010	Northwest	0.02
9/16/2010	Northwest	0.07
2/23/2011	Northwest	0.04
9/28/2011	Northwest	0.02

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
Summary of Free Product Removal
Former BP Service Station #11109
4280 Foothill Boulevard, Oakland, California

Well ID	Date of Removal Event	DTW (feet)	Product Thickness (feet)	Product Removed (gallons)	Cumulative Product Removed (gallons)
MW-5	11/5/1992	--	--	0.200	0.200
MW-5	2/25/1993	--	--	0.100	0.300
MW-5	3/18/1993	--	--	0.100	0.400
MW-5	4/13/1993	--	--	0.100	0.500
MW-5	4/23/1993	--	--	13.0*	13.500
MW-5	5/24/1993	--	--	0.100	13.600
MW-5	10/14/1993	--	--	0.300	13.900
MW-5	11/10/1993	--	--	0.400	14.300
MW-5	12/23/1993	--	--	0.400	14.700
MW-5	8/12/1997	12.18	0.22	--	14.700
MW-5	12/10/1997	10.78	0.06	--	14.700
MW-5	3/12/1998	10.11	0.22	0.200	14.900
MW-5	6/23/1998	10.20	0.02	<0.050	14.900
MW-5	9/11/1998	11.61	0.04	0.100	15.000
MW-5	8/25/1999	14.69	0.38	0.070	15.070
MW-5	3/9/2000	14.83	0.60	0.400	15.470
MW-5	7/14/2003	12.72	0.03	0.019	15.489
MW-5	8/25/2003	14.04	0.00	0.000	15.489
MW-5	9/25/2003	14.38	0.08	0.052	15.542
MW-5	10/3/2003	12.15	0.06	0.040	15.582
MW-5	11/12/2003	12.74	0.19	0.120	15.702
MW-5	12/9/2003	11.44	0.03	0.040	15.742
MW-5	2/2/2004	6.47	0.04	0.030	15.772
MW-5	2/9/2004	10.61	0.04	0.030	15.802
MW-5	3/9/2004	7.91	--	--	15.802
MW-5	4/13/2004	9.68	0.28	0.200	16.002
MW-5	5/5/2004	11.93	Sheen	--	16.002
MW-5	6/3/2004	12.60	Sheen	--	16.002
MW-5	7/2/2004	11.11	0.10	0.060	16.062
MW-5	8/31/2004	12.80	0.05	0.132	16.194
MW-5	9/17/2004	12.13	0.15	--	16.194
MW-5	10/25/2004	10.66	0.26	0.170	16.364
MW-5	11/8/2004	9.98	0.02	0.020	16.384
MW-5	12/15/2004	8.76	0.01	0.010	16.394
MW-5	1/13/2005	7.12	--	--	16.394
MW-5	2/1/2005	8.10	0.01	0.007	16.400
MW-5	3/7/2005	8.62	0.02	0.013	16.413
MW-5	4/29/2005	9.39	--	--	16.413
MW-5	5/12/2005	7.51	0.01	0.007	16.420
MW-5	6/23/2005	7.70	--	--	16.420
MW-5	7/2/2005	10.81	--	--	16.420
MW-5	8/24/2005	10.53	--	--	16.420
MW-5	9/6/2005	11.16	0.18	0.119	16.539
MW-5	1/27/2006	9.02	0.02	0.013	16.433
MW-5	2/15/2006	8.38	0.02	0.013	16.446
MW-5	3/6/2006	8.60	Sheen	--	16.446

Table 4
Summary of Free Product Removal
Former BP Service Station #11109
4280 Foothill Boulevard, Oakland, California

Well ID	Date of Removal Event	DTW (feet)	Product Thickness (feet)	Product Removed (gallons)	Cumulative Product Removed (gallons)
MW-5	4/21/2006	8.02	0.27	0.251	16.697
MW-5	5/30/2006	9.13	0.07	0.045	16.742
MW-5	6/27/2006	9.49	0.09	0.058	16.801
MW-5	7/31/2006	10.08	0.08	0.052	16.853
MW-5	8/28/2006	10.75	0.09	0.059	16.911
MW-5	9/5/2006	6.16	0.03	0.020	16.931
MW-5	10/1/2006	--	--	--	16.931
MW-5	11/1/2006	--	--	--	16.931
MW-5	12/1/2006	--	--	--	16.931
MW-5	1/1/2007	--	--	--	16.931
MW-5	2/1/2007	--	--	--	16.931
MW-5	3/5/2007	8.34	Sheen	--	16.931
MW-5	4/1/2007	--	--	--	16.931
MW-5	5/1/2007	--	--	--	16.931
MW-5	6/1/2007	--	--	--	16.931
MW-5	7/1/2007	--	--	--	16.931
MW-5	8/1/2007	--	--	--	16.931
MW-5	9/7/2007	15.15	0.15	--	16.931
MW-5	9/18/2007	15.42	0.02	4.00*	20.931
MW-5	10/17/2007	12.50	0.35	5.5*	26.431
MW-5	11/8/2007	13.20	0.40	5.0*	31.431
MW-5	12/12/2007	12.25	0.52	3.5*	34.931
MW-5	1/14/2008	10.30	0.49	5.0*	39.931
MW-5	2/27/2008	13.22	0.12	4.0*	43.931
MW-5	3/6/2008	12.90	0.14	3.0*	46.931
MW-5	4/1/2008	9.52	0.07	4.0*	50.931
MW-5	5/20/2008	8.68	0.07	7.0*	57.931
MW-5	6/18/2008	10.46	0.18	0.00	57.931
MW-5	7/16/2008	11.25	0.00	0.0375	57.968
MW-5	8/13/2008	--	--	2.125*	60.093
MW-5	9/3/2008	12.90	0.99	3.0*	63.093
MW-5	9/15/2008	12.75	0.15	4.0*	67.093
MW-5	10/15/2008	13.43	0.50	5.0*	72.093
MW-5	11/20/2008	13.55	0.63	2.625*	74.718
MW-5	12/18/2008	12.62	0.37	3.625*	78.343
MW-5	1/14/2009	12.43	0.11	4.0*	82.343
MW-5	2/17/2009	8.80	0.33	4.0*	86.343
MW-5	3/4/2009	8.45	0.16	4.0*	90.343
MW-5	4/8/2009	9.05	0.22	6.0*	96.343
MW-5	5/11/2009	9.10	0.32	8.0*	104.343
MW-5	6/16/2009	9.15	0.02	5.5*	109.843
MW-5	7/22/2009	9.33	0.12	6.0*	115.843
MW-5	8/6/2009	10.05	0.01	5.0*	120.843
MW-5	9/30/2009	10.55	0.06	8.0*	128.843
MW-5	10/28/2009	10.48	0.00	0.00	128.843
MW-5	11/13/2009	8.61	0.01	0.5*	129.343
MW-5	12/11/2009	7.83	0.01	1.0*	130.343

Table 4
Summary of Free Product Removal
Former BP Service Station #11109
4280 Foothill Boulevard, Oakland, California

Well ID	Date of Removal Event	DTW (feet)	Product Thickness (feet)	Product Removed (gallons)	Cumulative Product Removed (gallons)
MW-5	1/26/2010	6.43	0.02	1.5*	131.843
MW-5	2/24/2010	6.72	0.02	2.0*	133.843
MW-5	3/23/2010	7.10	0.00	0.00	133.843
MW-5	4/19/2010	7.53	Sheen	0.00	133.843
MW-5	5/18/2010	8.96	Sheen	0.00	133.843
MW-5	6/10/2010	8.26	0.06	2.0*	135.843
MW-5	7/27/2010	8.60	0.09	1.5*	137.343
MW-5	8/31/2010	8.99	0.01	0.00	137.343
MW-5	9/16/2010	9.14	0.04	0.00	137.343
MW-5	10/26/2010	9.40	0.05	2.0*	139.343
MW-5	11/15/2010	9.50	0.01	0.5*	139.843
MW-5	12/15/2011	6.52	0.00	0.00	139.843
MW-5	1/31/2011	9.31	0.01	0.5*	140.343
MW-5	2/23/2011	8.33	0.01	0.00	140.343
MW-5	3/18/2011	7.65	Sheen	0.00	140.343
MW-5	9/28/2011	10.46	0.06	0.00	140.343
MW-10	6/16/2009	8.60	0.01	2.5*	2.500
MW-10	7/22/2009	9.68	0.01	3.0*	5.500
MW-10	8/6/2009	9.48	0.00	0.00	5.500
MW-10	9/30/2009	9.69	0.01	3.0*	8.500
MW-10	10/28/2009	8.53	0.00	0.00	8.500
MW-10	11/13/2009	9.11	0.00	0.00	8.500
MW-10	12/11/2009	8.81	0.00	0.00	8.500
MW-10	1/26/2010	7.86	0.01	0.5*	9.000
MW-10	2/24/2010	7.28	0.00	0.00	9.000
MW-10	3/23/2010	7.70	0.00	0.00	9.000
MW-10	4/19/2010	8.10	0.00	0.00	9.000
MW-10	5/18/2010	8.83	0.00	0.00	9.000
MW-10	6/10/2010	8.93	0.01	2.0*	11.000
MW-10	7/27/2010	8.81	0.00	0.00	11.000
MW-10	8/31/2010	9.41	0.00	0.00	11.000
MW-10	9/16/2010	9.69	0.01	0.00	11.000
MW-10	10/26/2010	9.98	0.03	1.0*	12.000
MW-10	11/15/2010	10.15	0.00	0.00	12.000
MW-10	12/15/2010	8.71	0.00	0.00	12.000
MW-10	1/31/2011	9.05	0.00	0.00	12.000
MW-10	2/23/2011	7.99	0.00	0.00	12.000
MW-10	3/18/2011	8.10	0.00	0.00	12.000
MW-10	9/28/2011	10.36	0.29	0.00	12.000
MW-11	10/28/2009	8.00	0.00	0.00	0.000
MW-11	11/13/2009	9.24	0.00	0.00	0.000
MW-11	12/11/2009	9.06	0.00	0.00	0.000
MW-11	1/26/2010	6.98	0.00	0.00	0.000
MW-11	2/24/2010	7.07	0.00	0.00	0.000
MW-11	3/23/2010	7.25	0.00	0.00	0.000
MW-11	4/19/2010	7.95	0.00	0.00	0.000
MW-11	5/18/2010	8.26	0.00	0.00	0.000
MW-11	6/10/2010	9.65	Sheen	2.0*	2.000
MW-11	7/27/2010	8.61	0.00	0.00	2.000
MW-11	8/31/2010	9.35	0.00	0.00	2.000
MW-11	9/16/2010	9.42	0.00	0.00	2.000
MW-11	10/26/2010	9.90	0.00	0.00	2.000

Table 4
Summary of Free Product Removal
Former BP Service Station #11109
4280 Foothill Boulevard, Oakland, California

Well ID	Date of Removal Event	DTW (feet)	Product Thickness (feet)	Product Removed (gallons)	Cumulative Product Removed (gallons)
MW-11	11/15/2010	10.00	0.00	0.00	2.000
MW-11	12/15/2010	8.51	0.00	0.00	2.000
MW-11	1/31/2011	9.07	0.00	0.00	2.000
MW-11	2/23/2011	7.60	0.00	0.00	2.000
MW-11	3/18/2011	7.01	0.00	0.00	2.000
MW-11	9/28/2011	9.88	0.00	0.00	2.000
MW-12	9/30/2009	11.01	0.02	4.0*	4.000
MW-12	10/28/2009	10.40	0.00	0.00	4.000
MW-12	11/13/2009	10.13	0.00	0.00	4.000
MW-12	12/11/2009	10.22	0.00	0.00	4.000
MW-12	1/26/2010	8.67	0.00	0.00	4.000
MW-12	2/24/2010	10.21	0.00	0.00	4.000
MW-12	3/23/2010	11.16	Sheen	0.00	4.000
MW-12	4/19/2010	11.52	Sheen	0.5*	4.500
MW-12	5/18/2010	11.5	0.00	0.00	4.500
MW-12	6/10/2010	11.35	Sheen	1.0*	5.500
MW-12	7/27/2010	10.65	0.01	0.5*	6.000
MW-12	8/31/2010	10.71	0.10	1.00	7.000
MW-12	9/16/2010	11.54	0.02	0.00	7.000
MW-12	10/26/2010	11.35	0.02	1.0*	8.000
MW-12	11/15/2010	11.48	0.02	0.5*	8.500
MW-12	12/15/2010	12.78	0.00	0.00	8.500
MW-12	1/31/2011	11.45	0.01	0.5*	9.000
MW-12	2/23/2011	10.80	0.10	0.00	9.000
MW-12	3/18/2011	11.40	Sheen	0.00	9.000
MW-12	9/28/2011	11.48	0.20	0.00	9.000
Free Product Removed this Quarter:					0.0
Total Free Product Removed:					163.34

ABBREVIATIONS & SYMBOLS

-- = Not available/applicable/measured/calculated

* = FP/water mixture

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.

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



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

FIELD DATA REPORT

DATE: 9-28-11

PERSONNEL: JE

WEATHER: Sonny

PROJECT NO.: 09-88-646

COMMENTS

COMMENTS:						
Equip:	Geosquirl	Tubing	Bailers	DO	wli	Ec/pH

Groundwater Sampling Data Sheet

Well I.D.:

MW -3

Project Name/Location:

11109

Project #: F2011 09-88-646

Sampler's Name:

JR

Date: 9-28-11

Purging Equipment:

Bailey

Sampling Equipment:

Bailey

Casing Type: PVC

Casing Diameter:

4

inch

***UNIT CASING VOLUMES**

2" = 0.16 gal/lin ft.

Total Well Depth:

31.42

feet

3" = 0.37 gal/lin ft.

Depth to Water:

11.14

feet

4" = 0.65 gal/lin ft.

Water Column Thickness:

= 20.28

feet

6" = 1.47 gal/lin ft.

Unit Casing Volume*:

x 0.65 gallon / foot

Casing Water Volume:

= 13.18 gallons

Casing Volume:

x 3 each

Estimated Purge Volume:

= 39.54 gallons

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	0956	1.52	47		741.7	23.1	7.64	
2	0959	X	X	X	738.2	23.3	7.36	
4	1003	X	X	X	736.4	23.5	7.24	
6	1006	X	X	X	740.2	22.6	7.23	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged:

6 gallons

Depth to Water at Sample Collection:

feet

Sample Collection Time:

1010

Purged Dry? (Y N)

Comments:

Groundwater Sampling Data Sheet

Well I.D.:

MW-4

Project Name/Location:

11109

Project #: 09-88-646

Sampler's Name:

JR

Date: 9-26-11

Purging Equipment:

Bailer

Sampling Equipment:

Bailer

Casing Type: PVC

Casing Diameter:

4 inch

***UNIT CASING VOLUMES**

Total Well Depth:

26.74 feet

2" = 0.16 gal/in ft.

Depth to Water:

- 15.34 feet

3" = 0.37 gal/in ft.

Water Column Thickness:

= 11.40 feet

4" = 0.65 gal/in ft.

Unit Casing Volume*:

x 0.65 gallon / foot

6" = 1.47 gal/in ft.

Casing Water Volume:

= 7.41 gallons

Casing Volume:

x 3 each

Estimated Purge Volume:

= 21.23 gallons

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (μS)	Temperature (Fahrenheit)	pH	Observations
0	0836	0.78	114		671.2	21.1	7.84	
1	0838	X	X	X	669.9	20.7	7.85	
2	0840	X	X	X	667.9	20.5	7.40	
3	0842	X	X	X	667.2	20.4	7.38	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged:

3 gallons

Depth to Water at Sample Collection:

feet

Sample Collection Time:

0845

Purged Dry? (Y/N)

Comments:

Groundwater Sampling Data Sheet

Well I.D.:

MW-5

Project Name/Location:

1109

Project #: 09-88-646

Sampler's Name:

JR

Date: 9-26-11

Purging Equipment:

Bailer

Sampling Equipment:

Bailer

Casing Type: PVC

Casing Diameter:

4 inch

***UNIT CASING VOLUMES**

Total Well Depth:

32.07 feet

2" = 0.16 gal/lin ft.

Depth to Water:

- 10.46 feet

3" = 0.37 gal/lin ft.

Water Column Thickness:

= 21.61 feet

4" = 0.65 gal/lin ft.

Unit Casing Volume*:

x 0.65 gallon / foot

6" = 1.47 gal/lin ft.

Casing Water Volume:

= 14.05 gallons

Casing Volume:

x 3 each

Estimated Purge Volume:

= 42.15 gallons

Free product measurement (if present): 0.06

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: —

Purged Dry? (Y / N)

Comments: Strong HC odor/diesel odor

HS - product in well

Groundwater Sampling Data Sheet

Well I.D.:

MN-6

Project Name/Location:

1109

Project #: 09-88-646

Sampler's Name:

JR

Date: 9-28-11

Purging Equipment:

Bailer

Sampling Equipment:

Bailer

Casing Type: PVC

Casing Diameter:

4 inch

***UNIT CASING VOLUMES**

Total Well Depth:

34.49 feet

2" = 0.16 gal/lin ft.

Depth to Water:

15.81 feet

3" = 0.37 gal/lin ft.

Water Column Thickness:

= 18.68 feet

4" = 0.65 gal/lin ft.

Unit Casing Volume*:

x 0.65 gallon / foot

6" = 1.47 gal/lin ft.

Casing Water Volume:

= 12.14 gallons

Casing Volume:

x 3 each

Estimated Purge Volume:

= 36.42 gallons

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	0806	1.41	105		628.1	20.6	9.12	
1	0808	X	X	X	624.6	20.8	8.48	
2	0810	X	X	X	624.9	20.6	8.10	
3	0812	X	X	X	626.9	20.3	8.07	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged:

3 gallons

Depth to Water at Sample Collection:

feet

Sample Collection Time:

0815

Purged Dry? (Y N)

Comments:

Groundwater Sampling Data Sheet

Well I.D.:

MW-7

Project Name/Location:

11109

Project #: 09-88-646

Sampler's Name:

JR

Date: 9-28-11

Purging Equipment:

Bailer

Sampling Equipment:

Bailer

Casing Type: PVC

Casing Diameter:

6 inch

***UNIT CASING VOLUMES**

2" = 0.16 gal/lin ft.

Total Well Depth:

33.32 feet

3" = 0.37 gal/lin ft.

Depth to Water:

- 11.80 feet

4" = 0.65 gal/lin ft.

Water Column Thickness:

= 21.52 feet

6" = 1.47 gal/lin ft.

Unit Casing Volume*:

x 1.47 gallon / foot

Casing Water Volume:

= 31.34 gallons

Casing Volume:

x 3 each

Estimated Purge Volume:

= 94.02 gallons

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (μS)	Temperature (Fahrenheit)	pH	Observations
0	1027	0.98	3		705.2	243	7.49	
2	1030	x	x	x	704.5	23.3	7.21	
4	1033	x	x	x	704.7	23.0	7.09	
6	1036	x	x	x	704.8	22.1	7.00	
		x	x	x				
		x	x	x				
		x	x	x				
		x	x	x				

Total Water Volume Purged:

6 gallons

Depth to Water at Sample Collection:

feet

Sample Collection Time:

1040

Purged Dry? (Y N

Comments:

Groundwater Sampling Data Sheet

Well I.D.: MW-10

Project Name/Location: 11109

Project #: 09-88-646

Sampler's Name: JR

Date: 9-28-11

Purging Equipment: Bailer

Sampling Equipment: Bailer

Casing Type: PVC

Casing Diameter: 4 inch

***UNIT CASING VOLUMES**

Total Well Depth: 30.00 feet

2" = 0.16 gal/lin ft.

Depth to Water: 10.36 feet

3" = 0.37 gal/lin ft.

Water Column Thickness: 14.64 feet

4" = 0.65 gal/lin ft.

Unit Casing Volume*: x 0.65 gallon / foot

6" = 1.47 gal/lin ft.

Casing Water Volume: = 12.77 gallons

Casing Volume: x 3 each

Estimated Purge Volume: = 38.31 gallons

Free product measurement (if present): 0.29

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (μ S)	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: — Purged Dry? (Y / N)

Comments: Very strong HC odor / Diesel odor

- NS; PRODUCT PRESENT

Groundwater Sampling Data Sheet

Well I.D.:

MW-11

Project Name/Location:

11109

Project #: 09-00-646

Sampler's Name:

JR

Date: 9-28-11

Purging Equipment:

Bailer

Sampling Equipment:

Bailer

Casing Type: PVC

Casing Diameter:

4 inch

***UNIT CASING VOLUMES**

2" = 0.16 gal/lin ft.

Total Well Depth:

36.00 feet

3" = 0.37 gal/lin ft.

Depth to Water:

9.88 feet

4" = 0.65 gal/lin ft.

Water Column Thickness:

= 26.12 feet

6" = 1.47 gal/lin ft.

Unit Casing Volume*:

x 0.65 gallon / foot

Casing Water Volume:

= 13.08 gallons

Casing Volume:

x 3 each

Estimated Purge Volume:

= 39.24 gallons

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	0856	0.70	-3		1095	21.8	7.02	
1	0858	X	X	X	1102	22.2	7.10	
2	0900	X	X	X	1108	22.1	7.03	
3	0902	X	X	X	1110	22.0	7.02	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged:

3 gallons

Depth to Water at Sample Collection:

feet

Sample Collection Time:

0905

Purged Dry? (Y/N)

Comments: HC ODR

- BLACK PARTICULATES IN WATER

Groundwater Sampling Data Sheet

Well I.D.:

MW-12

Project Name/Location:

1109

Project #: 09-88-645

Sampler's Name:

JR

Date: 9-28-11

Purging Equipment:

Bailer

Sampling Equipment:

Bailer

Casing Type: PVC

4

inch

*UNIT CASING VOLUMES

2" = 0.16 gal/lin ft.

Casing Diameter:

30.00

feet

3" = 0.37 gal/lin ft.

Total Well Depth:

11.48

feet

4" = 0.65 gal/lin ft.

Depth to Water:

18.52

feet

6" = 1.47 gal/lin ft.

Water Column Thickness:

0.65

gallon / foot

Unit Casing Volume*:

x 12.04

gallons

Casing Water Volume:

x 3

each

Estimated Purge Volume:

= 36.12

gallons

Free product measurement (if present):

0.20

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (μ S)	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:

Purged Dry? (Y / N)

Comments: Strong H2S/mercaptan odor

- NS; product in well

San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

phone 925.484.1919 fax 925.600.3002

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING
Chain of Custody Record

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:		of COCs
Address: 1324 Mangrove Ave. Suite 212 City/State/Zip: Chico, CA 95926 (530) 566-1400 Phone (530) 566-1401 FAX Project Name: BP 11109 Site: 4280 Foothill, Oakland P O # GP09BPNA.C106		Analysis Turnaround Time Calendar (C) or Work Days (W)			TAT if different from Below Standard <input checked="" type="checkbox"/>				Job No.
					<input type="checkbox"/> 2 weeks	<input type="checkbox"/> 1 week	<input type="checkbox"/> 2 days	<input type="checkbox"/> 1 day	SDG No.
					<input type="checkbox"/> GRO by 8260B	<input type="checkbox"/> BTEX and 5 Oxy's by 8260B	<input type="checkbox"/> EDB, 1,2-DCA and Ethanol by 8260B	<input type="checkbox"/> MTBE by 8260B	Sample Specific Notes:
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.			
MW-2	(9/28/11)	9-28-11		GRAB	AQ	3	X X X	JP	
MW-3		1010		GRAB	AQ	3		X	
MW-4		0845		GRAB	AQ	3	X	X	
MW-5		0815		GRAB	AQ	3	X X X	JP	
MW-6		0815		GRAB	AQ	3		X	
MW-7		1040		GRAB	AQ	3	X X X		
MW-10				GRAB	AQ	3	X X X	JP	
MW-11		0905		GRAB	AQ	3	X X X		
MW-12	59	1045		GRAB	AQ	3	X X X	JP	
TB - 1109 - 09 202011		9-28-11	1045	AQ	1				ON HOLD
Preservation Used: 1= Ice; 2= HCl; 3= H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6= Other									
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months				
Special Instructions/QC Requirements & Comments:									
Relinquished by: <i>James Ron</i>	Company: BAI	Date/Time: 9-28-11 12:50	Received by: <i>John D</i>	Company: PASF	Date/Time: 9/28/11 12:50				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				

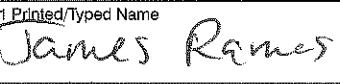
Temp 4.5°C

NO. 683404

NON-HAZARDOUS WASTE DATA FORM

09-08-046

BESI #

GENERATOR	Generator's Name and Mailing Address BP WEST COAST PRODUCTS, LLC P.O. BOX 80249 RANCHO SANTA MARGARITA, CA 92688		Generator's Site Address (if different than mailing address) FORMER ARCO 11109 4280 FOOTHILL BLVD OAKLAND, CA 94601					
	Generator's Phone: 949-480-5200		24-HOUR EMERGENCY PHONE: 800-424-9300					
	Container type removed from site: <input type="checkbox"/> Drums <input checked="" type="checkbox"/> Vacuum Truck <input type="checkbox"/> Roll-off Truck <input type="checkbox"/> Dump Truck <input type="checkbox"/> Other _____		Container type transported to receiving facility: <input type="checkbox"/> Drums <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Roll-off Truck <input type="checkbox"/> Dump Truck <input type="checkbox"/> Other _____					
	Quantity _____ 18		Quantity _____ Volume _____					
	WASTE DESCRIPTION NON-HAZARDOUS WATER		GENERATING PROCESS WELL PURGING / DECON WATER					
	COMPONENTS OF WASTE		PPM	%	COMPONENTS OF WASTE	PPM	%	
	1. WATER		99-100%		3.			
	2. TPH		<1%		4.			
	Waste Profile _____		PROPERTIES: pH 7-10		<input type="checkbox"/> SOLID <input checked="" type="checkbox"/> LIQUID <input type="checkbox"/> SLUDGE <input type="checkbox"/> SLURRY <input type="checkbox"/> OTHER _____			
	HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.							
Generator Printed/Typed Name On Behalf of BP West Coast Products, LLC		Signature				Month	Day	Year
3/1/10								
The Generator certifies that the waste as described is 100% non-hazardous								
TRANSPORTER	Transporter 1 Company Name 		Phone#		707-455-7280			
	Transporter 1 Printed/Typed Name 		Signature		Month	Day	Year	
	9/28/11							
	Transporter Acknowledgment of Receipt of Materials							
	Transporter 2 Company Name				Phone#			
RECEIVING FACILITY	Transporter 2 Printed/Typed Name		Signature		Month	Day	Year	
	Transporter Acknowledgment of Receipt of Materials							
Designated Facility Name and Site Address INSTRAT, INC. 1105 AIRPORT RD. RIO VISTA, CA 94571				Phone#				
				530-753-1829				
Printed/Typed Name		Signature		Month	Day	Year		
Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.								

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: 720-37711-1

Client Project/Site: BP #11109, Oakland

For:

ARCADIS U.S., Inc.

100 Montgomery Street

Suite 300

San Francisco, California 94104

Attn: Hollis Phillips

Authorized for release by:

10/05/2011 05:43:46 PM

Dimple Sharma

Project Manager I

dimple.sharma@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?

Ask
The
Expert

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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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

✉	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

Job ID: 720-37711-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-37711-1

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.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

Client Sample ID: MW-3

Lab Sample ID: 720-37711-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.2		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 720-37711-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	62		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	150		50		ug/L	1		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 720-37711-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.4		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 720-37711-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	9.5		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Benzene	380		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Ethylbenzene	28		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Toluene	4.8		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Xylenes, Total	4.3		1.0		ug/L	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	3800		50		ug/L	1		8260B/CA_LUFTM	Total/NA
TBA	13		4.0		ug/L	1		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 720-37711-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	6.4		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Benzene	230		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Ethylbenzene	260		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Toluene	92		2.5		ug/L	5		8260B/CA_LUFTM	Total/NA
Xylenes, Total	370		5.0		ug/L	5		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	5900		250		ug/L	5		8260B/CA_LUFTM	Total/NA
TBA	26		20		ug/L	5		8260B/CA_LUFTM	Total/NA

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

Client Sample ID: MW-3

Date Collected: 09/28/11 10:10
Date Received: 09/28/11 12:50

Lab Sample ID: 720-37711-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	3.2		0.50		ug/L			09/30/11 17:17	1
<hr/>									
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		67 - 130					09/30/11 17:17	1
1,2-Dichloroethane-d4 (Surr)	110		67 - 130					09/30/11 17:17	1
Toluene-d8 (Surr)	101		70 - 130					09/30/11 17:17	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

Client Sample ID: MW-4

Date Collected: 09/28/11 08:45
Date Received: 09/28/11 12:50

Lab Sample ID: 720-37711-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	62		0.50		ug/L			10/03/11 15:04	1
Gasoline Range Organics (GRO) -C6-C12	150		50		ug/L			10/03/11 15:04	1
<hr/>									
Surrogate									
4-Bromofluorobenzene	110		67 - 130				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		67 - 130					10/03/11 15:04	1
Toluene-d8 (Surr)	103		70 - 130					10/03/11 15:04	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

Client Sample ID: MW-6

Lab Sample ID: 720-37711-3

Date Collected: 09/28/11 08:15
Date Received: 09/28/11 12:50

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	3.4		0.50		ug/L			09/30/11 17:46	1
<hr/>									
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		67 - 130					09/30/11 17:46	1
1,2-Dichloroethane-d4 (Surr)	110		67 - 130					09/30/11 17:46	1
Toluene-d8 (Surr)	102		70 - 130					09/30/11 17:46	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

Client Sample ID: MW-7

Date Collected: 09/28/11 10:40
Date Received: 09/28/11 12:50

Lab Sample ID: 720-37711-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	9.5		0.50		ug/L			09/29/11 19:44	1
Benzene	380		2.5		ug/L			09/30/11 17:07	5
EDB	ND		0.50		ug/L			09/29/11 19:44	1
1,2-DCA	ND		0.50		ug/L			09/29/11 19:44	1
Ethylbenzene	28		0.50		ug/L			09/29/11 19:44	1
Toluene	4.8		0.50		ug/L			09/29/11 19:44	1
Xylenes, Total	4.3		1.0		ug/L			09/29/11 19:44	1
Gasoline Range Organics (GRO) -C6-C12	3800		50		ug/L			09/29/11 19:44	1
TBA	13		4.0		ug/L			09/29/11 19:44	1
Ethanol	ND		250		ug/L			09/29/11 19:44	1
DIPE	ND		0.50		ug/L			09/29/11 19:44	1
TAME	ND		0.50		ug/L			09/29/11 19:44	1
Ethyl t-butyl ether	ND		0.50		ug/L			09/29/11 19:44	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	114		67 - 130					09/29/11 19:44	1
4-Bromofluorobenzene	110		67 - 130					09/30/11 17:07	5
1,2-Dichloroethane-d4 (Surr)	119		67 - 130					09/29/11 19:44	1
1,2-Dichloroethane-d4 (Surr)	118		67 - 130					09/30/11 17:07	5
Toluene-d8 (Surr)	99		70 - 130					09/29/11 19:44	1
Toluene-d8 (Surr)	101		70 - 130					09/30/11 17:07	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

Client Sample ID: MW-11

Lab Sample ID: 720-37711-5

Date Collected: 09/28/11 09:05

Matrix: Water

Date Received: 09/28/11 12:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	6.4		2.5		ug/L			09/29/11 20:14	5
Benzene	230		2.5		ug/L			09/29/11 20:14	5
EDB	ND		2.5		ug/L			09/29/11 20:14	5
1,2-DCA	ND		2.5		ug/L			09/29/11 20:14	5
Ethylbenzene	260		2.5		ug/L			09/29/11 20:14	5
Toluene	92		2.5		ug/L			09/29/11 20:14	5
Xylenes, Total	370		5.0		ug/L			09/29/11 20:14	5
Gasoline Range Organics (GRO) -C6-C12	5900		250		ug/L			09/29/11 20:14	5
TBA	26		20		ug/L			09/29/11 20:14	5
Ethanol	ND		1300		ug/L			09/29/11 20:14	5
DIPE	ND		2.5		ug/L			09/29/11 20:14	5
TAME	ND		2.5		ug/L			09/29/11 20:14	5
Ethyl t-butyl ether	ND		2.5		ug/L			09/29/11 20:14	5
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		67 - 130					09/29/11 20:14	5
1,2-Dichloroethane-d4 (Surr)	113		67 - 130					09/29/11 20:14	5
Toluene-d8 (Surr)	100		70 - 130					09/29/11 20:14	5

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

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

Lab Sample ID: MB 720-100070/5

Matrix: Water

Analysis Batch: 100070

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		0.50		ug/L			10/03/11 10:57	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			10/03/11 10:57	1

Surrogate MB MB

Surrogate	% Recovery		Qualifier	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier					
4-Bromofluorobenzene	104		67 - 130			10/03/11 10:57	1
1,2-Dichloroethane-d4 (Surr)	105		67 - 130			10/03/11 10:57	1
Toluene-d8 (Surr)	101		70 - 130			10/03/11 10:57	1

Lab Sample ID: LCS 720-100070/6

Matrix: Water

Analysis Batch: 100070

Analyte	Spike		Result	LCS Qualifier	Unit	D	% Rec.	Limits
	Added							
Methyl tert-butyl ether		25.0	27.0	ug/L		108	62 - 130	

Surrogate LCS LCS

Surrogate	% Recovery		Qualifier	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier					
4-Bromofluorobenzene	106		67 - 130			10/03/11 10:57	1
1,2-Dichloroethane-d4 (Surr)	103		67 - 130			10/03/11 10:57	1
Toluene-d8 (Surr)	103		70 - 130			10/03/11 10:57	1

Lab Sample ID: LCS 720-100070/8

Matrix: Water

Analysis Batch: 100070

Analyte	Spike		Result	LCS Qualifier	Unit	D	% Rec.	Limits
	Added							
Gasoline Range Organics (GRO) -C6-C12		500	388	ug/L		78	58 - 106	

Surrogate LCS LCS

Surrogate	% Recovery		Qualifier	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier					
4-Bromofluorobenzene	105		67 - 130			10/03/11 10:57	1
1,2-Dichloroethane-d4 (Surr)	106		67 - 130			10/03/11 10:57	1
Toluene-d8 (Surr)	102		70 - 130			10/03/11 10:57	1

Lab Sample ID: LCSD 720-100070/7

Matrix: Water

Analysis Batch: 100070

Analyte	Spike		Result	LCSD Qualifier	Unit	D	% Rec.	Limits	RPD
	Added								
Methyl tert-butyl ether		25.0	26.6	ug/L		106	62 - 130	1	20

Surrogate LCSD LCSD

Surrogate	% Recovery		Qualifier	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier					
4-Bromofluorobenzene	104		67 - 130			10/03/11 10:57	1
1,2-Dichloroethane-d4 (Surr)	103		67 - 130			10/03/11 10:57	1
Toluene-d8 (Surr)	103		70 - 130			10/03/11 10:57	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

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

Lab Sample ID: LCSD 720-100070/9

Matrix: Water

Analysis Batch: 100070

Analyte	Spike Added	LCSD	LCSD	Unit	D	% Rec.	% Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (GRO) -C6-C12	500	383		ug/L		77	58 - 106	1	20
Surrogate									
4-Bromofluorobenzene	106		67 - 130						
1,2-Dichloroethane-d4 (Surr)	107		67 - 130						
Toluene-d8 (Surr)	102		70 - 130						

Lab Sample ID: MB 720-99891/4

Matrix: Water

Analysis Batch: 99891

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MTBE	ND		0.50		ug/L			09/29/11 10:51	1
Benzene	ND		0.50		ug/L			09/29/11 10:51	1
EDB	ND		0.50		ug/L			09/29/11 10:51	1
1,2-DCA	ND		0.50		ug/L			09/29/11 10:51	1
Ethylbenzene	ND		0.50		ug/L			09/29/11 10:51	1
Toluene	ND		0.50		ug/L			09/29/11 10:51	1
Xylenes, Total	ND		1.0		ug/L			09/29/11 10:51	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			09/29/11 10:51	1
TBA	ND		4.0		ug/L			09/29/11 10:51	1
Ethanol	ND		250		ug/L			09/29/11 10:51	1
DIPE	ND		0.50		ug/L			09/29/11 10:51	1
TAME	ND		0.50		ug/L			09/29/11 10:51	1
Ethyl t-butyl ether	ND		0.50		ug/L			09/29/11 10:51	1
Surrogate									
4-Bromofluorobenzene	99		67 - 130					09/29/11 10:51	1
1,2-Dichloroethane-d4 (Surr)	117		67 - 130					09/29/11 10:51	1
Toluene-d8 (Surr)	96		70 - 130					09/29/11 10:51	1

Lab Sample ID: LCS 720-99891/5

Matrix: Water

Analysis Batch: 99891

Analyte	Spikes	LCS	LCS	Unit	D	% Rec.	% Rec. Limits	Dil Fac
	Added	Result	Qualifier					
MTBE	25.0	26.0		ug/L		104	62 - 130	
Benzene	25.0	24.0		ug/L		96	82 - 127	
EDB	25.0	25.3		ug/L		101	70 - 130	
1,2-DCA	25.0	27.5		ug/L		110	70 - 126	
Ethylbenzene	25.0	24.7		ug/L		99	86 - 135	
Toluene	25.0	23.8		ug/L		95	83 - 129	
m-Xylene & p-Xylene	50.0	49.3		ug/L		99	70 - 142	
o-Xylene	25.0	24.9		ug/L		100	89 - 136	
TBA	500	521		ug/L		104	82 - 116	
Ethanol	500	494		ug/L		99	31 - 216	
DIPE	25.0	25.5		ug/L		102	74 - 155	

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

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

Lab Sample ID: LCS 720-99891/5

Matrix: Water

Analysis Batch: 99891

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

Analyte		Spike	LCS	LCS	Unit	D	% Rec.	Limits
		Added	Result	Qualifier				
TAME		25.0	26.5		ug/L	106	79 - 129	
Ethyl t-butyl ether		25.0	26.5		ug/L	106	70 - 130	

LCS LCS

Surrogate	% Recovery	Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	111		67 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCS 720-99891/7

Matrix: Water

Analysis Batch: 99891

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

Analyte		Spike	LCS	LCS	Unit	D	% Rec.	Limits
		Added	Result	Qualifier				
Gasoline Range Organics (GRO) -C6-C12		500	370		ug/L	74	58 - 106	

LCS LCS

Surrogate	% Recovery	Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	111		67 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-99891/6

Matrix: Water

Analysis Batch: 99891

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

Analyte		Spike	LCSD	LCSD	Unit	D	% Rec.	Limits	RPD	Limit
		Added	Result	Qualifier						
MTBE		25.0	25.8		ug/L	103	62 - 130	1	20	
Benzene		25.0	24.1		ug/L	96	82 - 127	0	20	
EDB		25.0	24.8		ug/L	99	70 - 130	2	20	
1,2-DCA		25.0	27.5		ug/L	110	70 - 126	0	20	
Ethylbenzene		25.0	24.7		ug/L	99	86 - 135	0	20	
Toluene		25.0	23.8		ug/L	95	83 - 129	0	20	
m-Xylene & p-Xylene		50.0	49.2		ug/L	98	70 - 142	0	20	
o-Xylene		25.0	24.7		ug/L	99	89 - 136	1	20	
TBA		500	513		ug/L	103	82 - 116	2	20	
Ethanol		500	498		ug/L	100	31 - 216	1	30	
DIPE		25.0	25.4		ug/L	102	74 - 155	0	20	
TAME		25.0	26.5		ug/L	106	79 - 129	0	20	
Ethyl t-butyl ether		25.0	26.5		ug/L	106	70 - 130	0	20	

LCSD LCSD

Surrogate	% Recovery	Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	110		67 - 130
Toluene-d8 (Surr)	98		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

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

Lab Sample ID: LCSD 720-99891/8

Matrix: Water

Analysis Batch: 99891

Analyte	Spike Added	LCSD		Unit	D	% Rec.	RPD	Limit
		Result	Qualifier					
Gasoline Range Organics (GRO) -C6-C12	500	371		ug/L		74	0	20
Surrogate	LCSD	LCSD						
	% Recovery	Qualifier	Limits					
4-Bromofluorobenzene	101		67 - 130					
1,2-Dichloroethane-d4 (Surr)	114		67 - 130					
Toluene-d8 (Surr)	98		70 - 130					

Lab Sample ID: MB 720-99949/4

Matrix: Water

Analysis Batch: 99949

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		0.50	ug/L				09/30/11 09:47	1
Surrogate	MB	MB							
	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		67 - 130					09/30/11 09:47	1
1,2-Dichloroethane-d4 (Surr)	110		67 - 130					09/30/11 09:47	1
Toluene-d8 (Surr)	101		70 - 130					09/30/11 09:47	1

Lab Sample ID: LCS 720-99949/5

Matrix: Water

Analysis Batch: 99949

Analyte	Spike		Result	Qualifier	Unit	D	% Rec.	Limits
	Added							
Methyl tert-butyl ether	25.0		27.2		ug/L		109	62 - 130
Surrogate	LCS	LCS						
	% Recovery	Qualifier	Limits					
4-Bromofluorobenzene	105		67 - 130					
1,2-Dichloroethane-d4 (Surr)	106		67 - 130					
Toluene-d8 (Surr)	103		70 - 130					

Lab Sample ID: LCSD 720-99949/6

Matrix: Water

Analysis Batch: 99949

Analyte	Spike		Result	Qualifier	Unit	D	% Rec.	RPD	Limit
	Added								
Methyl tert-butyl ether	25.0		27.7		ug/L		111	62 - 130	20
Surrogate	LCSD	LCSD							
	% Recovery	Qualifier	Limits						
4-Bromofluorobenzene	104		67 - 130						
1,2-Dichloroethane-d4 (Surr)	106		67 - 130						
Toluene-d8 (Surr)	103		70 - 130						

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

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

Lab Sample ID: MB 720-99952/4

Matrix: Water

Analysis Batch: 99952

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MTBE	ND		0.50		ug/L			09/30/11 09:50	1
Benzene	ND		0.50		ug/L			09/30/11 09:50	1
EDB	ND		0.50		ug/L			09/30/11 09:50	1
1,2-DCA	ND		0.50		ug/L			09/30/11 09:50	1
Ethylbenzene	ND		0.50		ug/L			09/30/11 09:50	1
Toluene	ND		0.50		ug/L			09/30/11 09:50	1
Xylenes, Total	ND		1.0		ug/L			09/30/11 09:50	1
Gasoline Range Organics (GRO)	ND		50		ug/L			09/30/11 09:50	1
-C6-C12									
TBA	ND		4.0		ug/L			09/30/11 09:50	1
Ethanol	ND		250		ug/L			09/30/11 09:50	1
DIPE	ND		0.50		ug/L			09/30/11 09:50	1
TAME	ND		0.50		ug/L			09/30/11 09:50	1
Ethyl t-butyl ether	ND		0.50		ug/L			09/30/11 09:50	1
<hr/>									
Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac			
	% Recovery	Qualifier							
4-Bromofluorobenzene	98		67 - 130					09/30/11 09:50	1
1,2-Dichloroethane-d4 (Surr)	112		67 - 130					09/30/11 09:50	1
Toluene-d8 (Surr)	96		70 - 130					09/30/11 09:50	1

Lab Sample ID: LCS 720-99952/5

Matrix: Water

Analysis Batch: 99952

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

Analyte	Spike		Result	Qualifier	Unit	D	% Rec	Limits	% Rec.
	Added								
MTBE	25.0		26.5		ug/L		106	62 - 130	
Benzene	25.0		24.5		ug/L		98	82 - 127	
EDB	25.0		25.4		ug/L		102	70 - 130	
1,2-DCA	25.0		27.4		ug/L		110	70 - 126	
Ethylbenzene	25.0		24.9		ug/L		100	86 - 135	
Toluene	25.0		24.1		ug/L		96	83 - 129	
m-Xylene & p-Xylene	50.0		49.4		ug/L		99	70 - 142	
o-Xylene	25.0		25.1		ug/L		100	89 - 136	
TBA	500		508		ug/L		102	82 - 116	
Ethanol	500		485		ug/L		97	31 - 216	
DIPE	25.0		25.3		ug/L		101	74 - 155	
TAME	25.0		27.3		ug/L		109	79 - 129	
Ethyl t-butyl ether	25.0		27.3		ug/L		109	70 - 130	
<hr/>									
Surrogate	LCS		Result	Qualifier	Unit	D	% Rec	Limits	% Rec.
	% Recovery	Qualifier							
4-Bromofluorobenzene	100		67 - 130						
1,2-Dichloroethane-d4 (Surr)	108		67 - 130						
Toluene-d8 (Surr)	99		70 - 130						

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

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

Lab Sample ID: LCSD 720-99952/6

Matrix: Water

Analysis Batch: 99952

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

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec.		RPD	RPD	Limit
	Added	Result	Qualifier			% Rec	Limits			
MTBE	25.0	25.6		ug/L	102	62 - 130	3	20		
Benzene	25.0	23.9		ug/L	96	82 - 127	2	20		
EDB	25.0	24.7		ug/L	99	70 - 130	3	20		
1,2-DCA	25.0	26.3		ug/L	105	70 - 126	4	20		
Ethylbenzene	25.0	24.3		ug/L	97	86 - 135	2	20		
Toluene	25.0	23.7		ug/L	95	83 - 129	2	20		
m-Xylene & p-Xylene	50.0	48.3		ug/L	97	70 - 142	2	20		
o-Xylene	25.0	24.4		ug/L	98	89 - 136	3	20		
TBA	500	500		ug/L	100	82 - 116	2	20		
Ethanol	500	469		ug/L	94	31 - 216	3	30		
DIPE	25.0	24.6		ug/L	98	74 - 155	3	20		
TAME	25.0	26.5		ug/L	106	79 - 129	3	20		
Ethyl t-butyl ether	25.0	26.3		ug/L	105	70 - 130	4	20		

Surrogate	LCSD	LCSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	107		67 - 130
Toluene-d8 (Surr)	99		70 - 130

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

GC/MS VOA

Analysis Batch: 99891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-37711-4	MW-7	Total/NA	Water	8260B/CA_LUFT MS	5
720-37711-5	MW-11	Total/NA	Water	8260B/CA_LUFT MS	6
LCS 720-99891/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	7
LCS 720-99891/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	8
LCSD 720-99891/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	9
LCSD 720-99891/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	10
MB 720-99891/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	11

Analysis Batch: 99949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-37711-1	MW-3	Total/NA	Water	8260B/CA_LUFT MS	12
720-37711-3	MW-6	Total/NA	Water	8260B/CA_LUFT MS	13
LCS 720-99949/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	14
LCSD 720-99949/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-99949/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 99952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-37711-4	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-99952/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-99952/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-99952/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 100070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-37711-2	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-100070/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-100070/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-100070/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-100070/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-100070/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

Client Sample ID: MW-3

Date Collected: 09/28/11 10:10
Date Received: 09/28/11 12:50

Lab Sample ID: 720-37711-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	99949	09/30/11 17:17	AC	TAL SF

Client Sample ID: MW-4

Date Collected: 09/28/11 08:45
Date Received: 09/28/11 12:50

Lab Sample ID: 720-37711-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	100070	10/03/11 15:04	LL	TAL SF

Client Sample ID: MW-6

Date Collected: 09/28/11 08:15
Date Received: 09/28/11 12:50

Lab Sample ID: 720-37711-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	99949	09/30/11 17:46	AC	TAL SF

Client Sample ID: MW-7

Date Collected: 09/28/11 10:40
Date Received: 09/28/11 12:50

Lab Sample ID: 720-37711-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	99891	09/29/11 19:44	JZ	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		5	99952	09/30/11 17:07	AC	TAL SF

Client Sample ID: MW-11

Date Collected: 09/28/11 09:05
Date Received: 09/28/11 12:50

Lab Sample ID: 720-37711-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	99891	09/29/11 20:14	JZ	TAL SF

Laboratory References:

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

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

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.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: BP #11109, Oakland

TestAmerica Job ID: 720-37711-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	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 #11109, Oakland

TestAmerica Job ID: 720-37711-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-37711-1	MW-3	Water	09/28/11 10:10	09/28/11 12:50
720-37711-2	MW-4	Water	09/28/11 08:45	09/28/11 12:50
720-37711-3	MW-6	Water	09/28/11 08:15	09/28/11 12:50
720-37711-4	MW-7	Water	09/28/11 10:40	09/28/11 12:50
720-37711-5	MW-11	Water	09/28/11 09:05	09/28/11 12:50

San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

phone 925.484.1919 fax 925.600.3002

720-37711
Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

133938

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Jason Duda			Site Contact:			Date:			COC No:	
Broadbent and Associates, Inc. Address: 1324 Mangrove Ave. Suite 212 City/State/Zip: Chico, CA 95926 (530) 566-1400 Phone (530) 566-1401 FAX Project Name: BP 11109 Site: 4280 Foothill, Oakland P O # GP09BPNA.C106		Tel/Fax: 530-566-1400/530-566-1401 Analysis Turnaround Time Calendar (C) or Work Days (W)			Lab Contact: Dimple Sharma			Carrier:			of COCs	
		<input type="checkbox"/> TAT if different from Below Standard <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day									Job No.	
											SDG No.	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	GRO by 8260B	BTEX and 5 Oxy's by 8260B	EDB, 1,2-DCA and Ethanol by 8260B	MTBE by 8260B	Sample Specific Notes:
MW-2	(9/28/11)	9-28-11	~	GRAB	AQ	3		x x x	x	x		
MW-3			1010	GRAB	AQ	3			x			
MW-4			0845	GRAB	AQ	3		x	x			
MW-5				GRAB	AQ	3		x x x	x			
MW-6			0815	GRAB	AQ	3			x			
MW-7			1040	GRAB	AQ	3		x x x				
MW-10				GRAB	AQ	3		x x x	x			
MW-11			0905	GRAB	AQ	3		x x x				
MW-12			09	GRAB	AQ	3		x x x	x			
TB - 1109 - 09 202011		9-28-11	1045	AQ	1							ON HOLD
Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4= HNO ₃ ; 5= NaOH; 6= Other												
Possible Hazard Identification <input 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"/>						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Special Instructions/QC Requirements & Comments:												
Relinquished by: <i>James Ron</i>	Company: BAI	Date/Time: 9-28-11 12:50	Received by: <i>CDH</i>	Company: PASF	Date/Time: 9-28-11 12:50							
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:							
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:							

Temp 45°C

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 720-37711-1

Login Number: 37711

List Source: TestAmerica San Francisco

List Number: 1

Creator: Apostol, Anita

Question	Answer	Comment	
Radioactivity either was not measured or, if measured, is at or below background	N/A		1
The cooler's custody seal, if present, is intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True	4.5	6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the sample IDs on the containers and the COC.	True		11
Samples are received within Holding Time.	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
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		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	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!

Submittal Type: EDF - Monitoring Report - Semi-Annually
Submittal Title: 3Q11 GW Monitoring
Facility Global ID: T0600100217
Facility Name: BP #11109
File Name: 720-37711-1.zip
Organization Name: Broadbent & Associates, Inc.
Username: BROADBENT-C
IP Address: 67.118.40.90
Submittal Date/Time: 10/14/2011 10:16:32 AM
Confirmation Number: 4350083351

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

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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>	3Q11 GEO_WELL 11109
<u>Facility Global ID:</u>	T0600100217
<u>Facility Name:</u>	BP #11109
<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>	10/14/2011 10:19:10 AM
<u>Confirmation Number:</u>	1048634350