



RECEIVED
9:49 am, May 03, 2011
Alameda County
Environmental Health

ARCADIS U.S., Inc.
100 Montgomery Street, Suite 300
San Francisco, California 94104
Tel 415.374.2744
Fax 415.374.2745
www.arcadis-us.com

Re: First Quarter 2011 Monitoring Report
Former BP Station #11109
4280 Foothill Blvd.
Oakland, California
ACEH Case #RO0000426

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:
4/29/2011

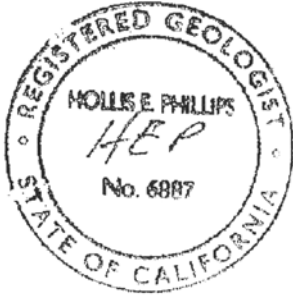
Submitted by:
ARCADIS U.S., Inc.

Contact:
Hollis E. Phillips

Phone:
415.374.2744 ext 13

Hollis E. Phillips, PG
Project Manager

Email:
Hollis.phillips@arcadis-us.com



Our ref:
GP09BPNA.C106

First Quarter 2011 Monitoring Report
Former BP Station #11109
4280 Foothill Blvd., Oakland, California
ACEH Case #RO0000426

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
P.O. Box 1257
San Ramon, California 94583

Prepared by



1324 Mangrove Avenue, Suite 212
Chico, California 95926
(530) 566-1400
www.broadbentinc.com

April 29, 2011

Project No. 09-88-646

Broadbent & Associates, Inc.
1324 Mangrove Ave., Suite 212
Chico, CA 95926
Voice (530) 566-1400
Fax (530) 566-1401



April 29, 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: First 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 First 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 530-566-1400.

Sincerely,
BROADBENT & ASSOCIATES, INC.

A handwritten signature in black ink that reads 'Jason R. Duda'.

Jason R. Duda
Project Scientist

A handwritten signature in black ink that reads 'Thomas A. Venus'.

Thomas A. Venus, P.E.
Senior Engineer



enclosures

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

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

Broadbent & Associates, Inc. (BAI) is pleased to present this *First 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>Jason Duda (530) 566-1400</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 (First Quarter 2011):

1. Conducted groundwater monitoring/sampling for First Quarter 2011 on February 23, 2011.
2. Performed monthly free product gauging and bailing of wells MW-5 and MW-10 through MW-12. Work performed on January 13, February 23, and March 18, 2011 by BAI.

WORK SCHEDULED FOR NEXT QUARTER (Second Quarter 2011):

1. Submit *First Quarter 2011 Monitoring Report* (contained herein).
2. Perform monthly free product gauging and bailing of wells MW-5 and MW-10 through MW-12.

ADDITIONAL WORK RECOMMENDED FOR NEXT QUARTER (Second Quarter 2011)

1. None

GROUNDWATER MONITORING PLAN SUMMARY:

Groundwater level gauging:	<u>MW-5, MW-10, MW-11, and MW-12</u>	(Monthly)
Groundwater sample collection:	<u>MW-2 through MW-12</u>	(Semi-Annually 1Q & 3Q)
	<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-12</u>	(yes/no)
LNAPL recovered this quarter:	<u>1.0</u>	(gal)
Cumulative LNAPL recovered:	<u>163.34 (FP/Water Mixture)</u>	(gal)

Groundwater Elevation and Gradient:

Depth to groundwater:	<u>7.60 (MW-11) to 12.34 (MW-6)</u>	(ft below TOC)
Gradient direction:	<u>Northwest</u>	(compass direction)
Gradient magnitude:	<u>0.04</u>	(ft/ft)
Average change in elevation:	<u>2.27</u>	(ft since last measurement)

Laboratory Analytical Data

Summary:	<u>GRO was detected in MW-7, MW-10 and MW-11. Benzene was detected in MW-7, MW-10 and MW-11. Ethylbenzene was detected in MW-7, MW-10 and MW-11. Toluene was detected in MW-7, MW-10 and MW-11. Total Xylenes was detected in MW-7, MW-10</u>
----------	---

and MW-11. MTBE was detected in MW-3, MW-4, MW-7 and MW-11. Other petroleum hydrocarbon constituents were below laboratory reporting limits.

ACTIVITIES CONDUCTED & RESULTS:

First Quarter 2011 groundwater monitoring was conducted on February 23, 2011 by BAI personnel in accordance with the monitoring plan summary provided above. Light, Non-Aqueous Phase Liquid (LNAPL, or free product) was observed in wells MW-5 and MW-12. Sheen was observed in well MW-10. MW-8 was not gauged due to a car parked over the well. No other irregularities were noted during water level gauging. Depth to water measurements ranged from 7.60 ft at MW-11 to 12.34 ft at MW-6. Resulting groundwater surface elevations ranged from 32.44 ft at MW-11 to 28.67 ft at MW-4. Groundwater elevations are summarized in Table 1. Water level elevations yielded a potentiometric groundwater flow direction and horizontal gradient to the northwest at approximately 0.04 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 February 23, 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-10, 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-10, 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 with the exception that the laboratory analyzed and reported MTBE for MW-7, MW-10 and MW-11. 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 61,000 micrograms per liter ($\mu\text{g/L}$, parts per billion, ppb) in well MW-10. Benzene was detected above the laboratory reporting limit in three wells sampled at concentrations up to 7,000 $\mu\text{g/L}$ in well MW-10. Toluene was detected above the laboratory reporting limit in three wells sampled at concentrations up to 5,300 $\mu\text{g/L}$ in well MW-10. Ethylbenzene was detected above the laboratory reporting limit in three wells sampled at concentrations up to 2,800 $\mu\text{g/L}$ in well MW-10. Total Xylenes was detected above the laboratory reporting limit in three wells sampled at concentrations up to 12,000 $\mu\text{g/L}$ in well MW-10. MTBE was detected above the laboratory reporting limit in four wells sampled at concentrations up to 55 $\mu\text{g/L}$ in well MW-4. 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.

Free product (FP) or LNAPL in wells MW-5 and MW-10 through MW-12 was gauged and removed, if present, during each month of the First Quarter 2011. On January 31, 2011, FP was measured in wells MW-5 at 0.01 feet and MW-12 at 0.01 feet. Approximately 0.5 gallons of FP/water mixture was bailed from each of these two wells during this visit. On February 23, 2011, FP was measured in wells MW-5 at 0.01 feet and MW-12 at 0.10 feet. Sheen was observed in well MW-10. LNAPL could not be bailed during the February event as the on-site drum was full. On March 18, 2011, sheen was observed in well MW-5 and MW-12. Table 4 contains a summary of FP removal data.

DISCUSSION:

Groundwater levels on February 23, 2011 were between historic minimum and maximum elevations for each well gauged. Groundwater elevations yielded a potentiometric groundwater flow direction and horizontal gradient to the northwest at approximately 0.04 ft/ft, generally consistent with the historic flow direction and gradient data since 2009, as presented in Table 3.

This event's detected analytical concentrations were within the historic minimum and maximum ranges recorded for each well, with the following exceptions: Benzene reached a historic minimum in well MW-11; MTBE reached a historic minimum in wells MW-3, MW-6 and MW-11; and TBA reached a historic minimum in well MW-7. Recent and historic laboratory analytical results are summarized in Table 1 and Table 2.

RECOMMENDATIONS:

Due to the periodic presence of LNAPL in select wells, monthly gauging and removal of LNAPL is recommended. The next monitoring and sampling event is scheduled to be conducted during the Third Quarter of 2011.

LIMITATIONS:

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

ATTACHMENTS:

Drawing 1: Site Location Map
Drawing 2: Groundwater Elevation Contours and Analytical Summary Map, February 23, 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 Flow Direction and Gradient
Table 4: Summary of Free Product Removal

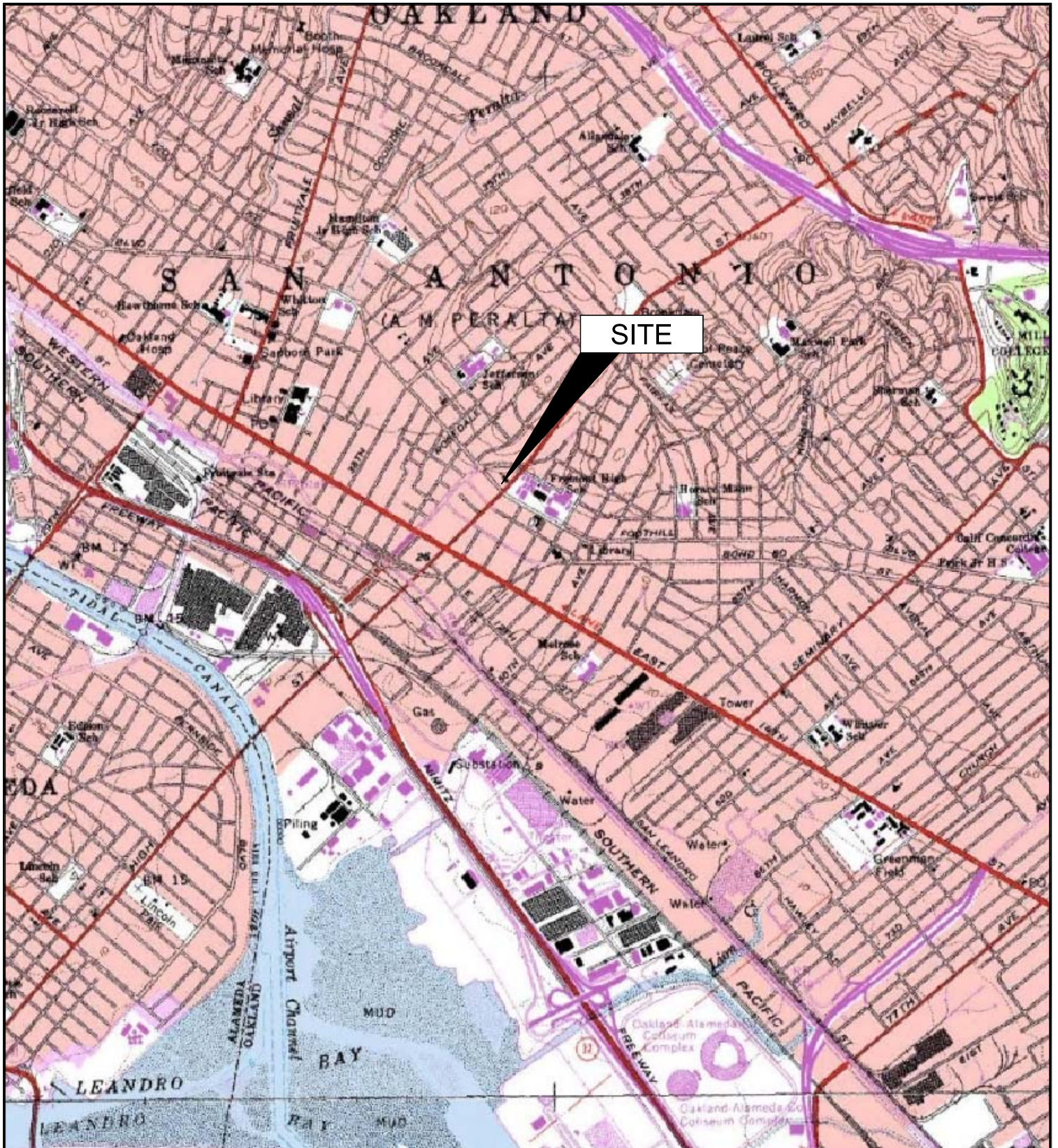
Appendix A: Field Methods
Appendix B: Field Data Sheets
Appendix C: Laboratory Report and Chain-of-Custody Documentation
Appendix D: GeoTracker Upload Confirmation Receipts

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

DO: Dissolved Oxygen
DRO: Diesel-Range Organics
EDB: 1,2-Dibromomethane
Eh: Oxidation Reduction Potential
EPA: Environmental Protection Agency
ETBE: Ethyl Tertiary Butyl Ether
Fe²⁺: Ferrous Iron

NO₃: Nitrate as Nitrogen
ppb: parts per billion
SO₄: Sulfate
TAME: Tert-Amyl Methyl Ether
TBA: Tertiary Butyl Ether
TOC: Top of Casing
µg/L: micrograms per liter



SITE

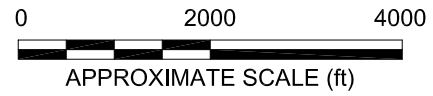
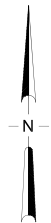
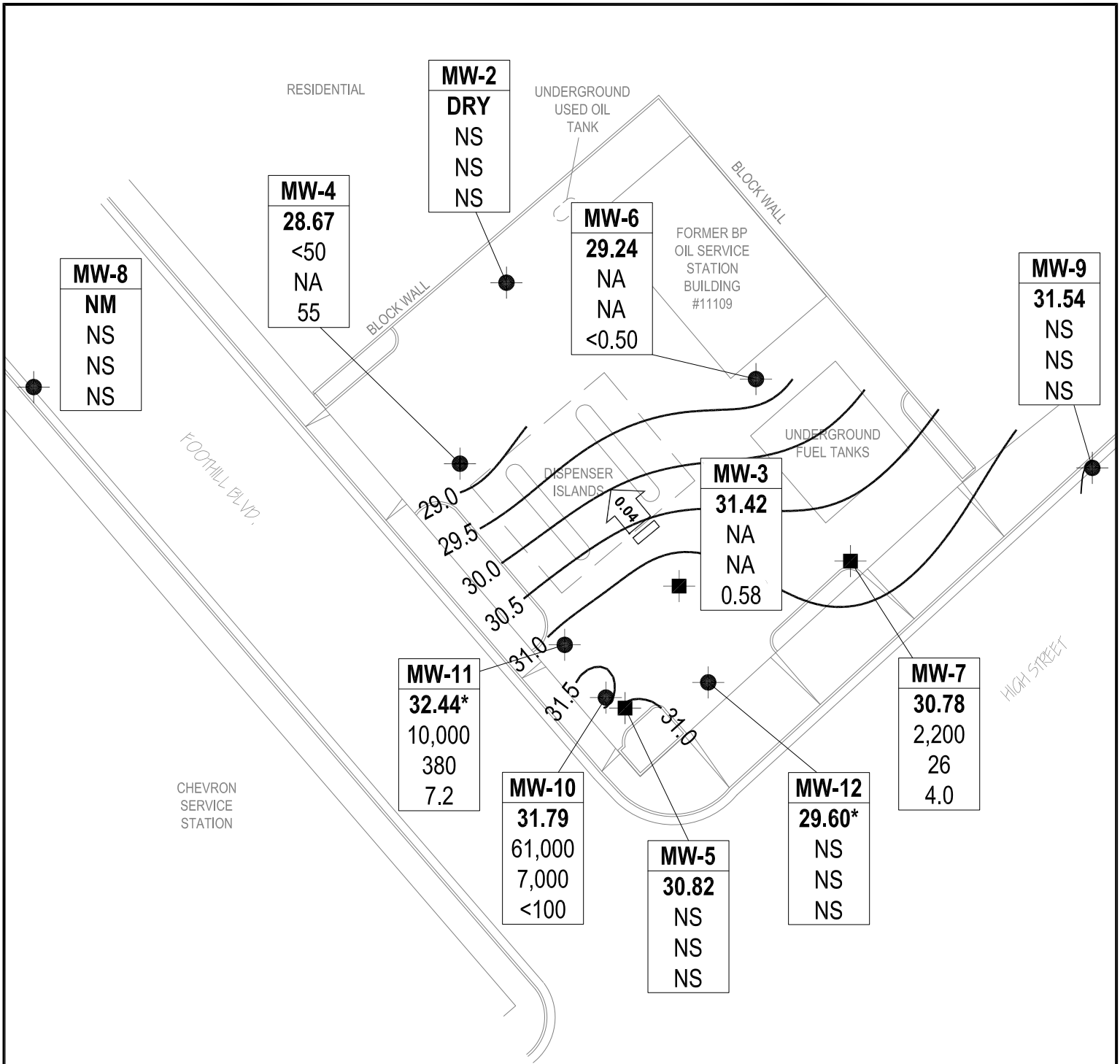


IMAGE SOURCE: USGS



	Monitor Well	NA	Not Analyzed
	Recovery Well	NM	Not Monitored
— 29.0	Groundwater Elevation Contour (ft)	NS	Not Sampled
WELL	Well Designation	SPH	Separate Phase Hydrocarbons
ELEV	Groundwater Elevation (ft)	*	Elevation Not Used for Contouring
GRO	GRO Concentration (µg/L)	<	Not Detected at or Above Laboratory Reporting Limits
BENZ	Benzene Concentration (µg/L)		Groundwater Elevation Flow Direction and Gradient (ft/ft)
MTBE	MTBE Concentration (µg/L)		

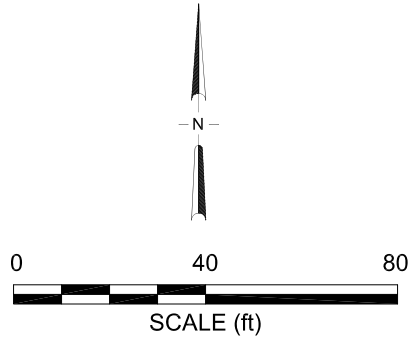


Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

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

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-2 Cont.																		
4/7/1994	--	n	41.22	20.25	--	20.97	<50	<0.5	<0.5	<0.5	<0.5	12.2	5.9	PACE	--	--	--	--
7/6/1994	--	n	41.22	20.59	--	20.63	<50	<0.5	<0.5	<0.5	<0.5	--	3.1	PACE	--	--	--	--
10/7/1994	--	n	41.22	22.04	--	19.18	<50	<0.5	<0.5	<0.5	<0.5	15.2	2.8	PACE	--	--	--	--
1/27/1995	--		41.22	26.12	--	15.10	<50	<0.5	<0.5	<0.5	<1	--	4.8	ATI	--	440	<5000	--
3/30/1995	--		41.22	12.34	--	28.88	<50	<0.50	<0.50	<0.50	<1.0	--	7.2	ATI	--	--	--	--
6/20/1995	--		41.22	16.42	--	24.80	<50	<0.50	<0.50	<0.50	<1.0	--	6.0	ATI	--	--	--	--
10/3/1995	--		41.22	20.06	--	21.16	<50	<0.50	<0.50	<0.50	<1.0	<5.0	5.7	ATI	--	--	--	--
12/6/1995	--		41.22	21.31	--	19.91	<50	<0.50	<0.50	<0.50	<1.0	46	5.4	ATI	--	--	--	--
3/21/1996	--		41.22	12.28	--	28.94	<50	<0.5	<1.0	<1.0	<1.0	<1.0	7.4	SPL	--	--	--	--
6/21/1996	--		41.22	13.28	--	27.94	<50	<0.5	<1	<1	<1	<10	7.3	SPL	--	--	--	--
9/6/1996	--		41.22	13.94	--	27.28	--	--	--	--	--	--	--	--	--	--	--	--
9/9/1996	--		41.22	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	7.4	SPL	--	--	--	--
12/19/1996	--		41.22	12.19	--	29.03	<50	<0.5	<1.0	<1.0	<1.0	<10	7.9	SPL	--	--	--	--
3/17/1997	--		41.22	11.59	--	29.63	--	--	--	--	--	--	--	--	--	--	--	--
8/12/1997	--		41.22	13.21	--	28.01	--	--	--	--	--	--	--	--	--	--	--	--
12/10/1997	--		41.22	12.34	--	28.88	--	--	--	--	--	--	--	--	--	--	--	--
3/12/1998	--		41.22	11.04	--	30.18	--	--	--	--	--	--	--	--	--	--	--	--
6/23/1998	--		41.22	11.77	--	29.45	--	--	--	--	--	--	--	--	--	--	--	--
3/31/1999	--		41.22	12.38	--	28.84	--	--	--	--	--	--	--	--	--	--	--	--
8/25/1999	--		41.22	17.72	--	23.50	--	--	--	--	--	--	--	--	--	--	--	--
3/9/2000	--		41.22	11.94	--	29.28	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2001	--		41.22	10.31	--	30.91	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2002	--		41.22	14.35	--	26.87	--	--	--	--	--	--	--	--	--	--	--	--
3/18/2002	--		41.22	13.11	--	28.11	--	--	--	--	--	--	--	--	--	--	--	--
3/11/2003	--		41.22	13.24	--	27.98	--	--	--	--	--	--	--	--	--	--	--	--
12/09/2003	P	q	41.22	18.58	--	22.64	350	<0.50	<0.50	0.56	2.8	24	--	SEQM	6.2	--	--	--
03/09/2004	P		41.22	12.52	--	28.70	74	<0.50	<0.50	0.83	4.7	27	--	SEQM	6.5	--	--	--
09/17/2004	P		41.22	18.05	--	23.17	59	<0.50	<0.50	<0.50	<0.50	21	--	SEQM	6.3	--	--	--
03/07/2005	--	p	41.22	2.32	--	38.90	--	--	--	--	--	--	--	--	--	--	--	--
09/06/2005	--	r	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/06/2006	--	p	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-2 Cont.																		
9/5/2006	--	p	41.22	10.46	--	30.76	79	<0.50	5.1	<0.50	0.73	<0.50	--	TAMC	6.4	--	--	--
3/5/2007	--	p	41.22	12.25	--	28.97	--	--	--	--	--	--	--	--	--	--	--	--
9/7/2007	--	r	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/6/2008	--	w	41.22	12.33	--	28.89	--	--	--	--	--	--	--	--	--	--	--	--
9/3/2008	--	r	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/4/2009	--	r	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9/30/2009	--	r, x	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/28/2009	--	r	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/23/2010	--	r	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/10/2010	--	r	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	--	r	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/23/2011	--	r	41.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3																		
2/5/1990	--		40.74	17.45	--	23.29	1,400	15	<2.5	11	8	--	--	SUP	--	--	--	--
2/14/1991	--		40.74	18.52	--	22.22	320	8	<0.3	8	1	--	--	SUP	--	--	--	--
5/13/1991	--		40.74	19.32	--	21.42	640	13	<0.3	18	1	--	--	SUP	--	--	--	--
7/24/1991	--		40.74	20.69	--	20.05	--	--	--	--	--	--	--	--	--	--	--	--
10/3/1991	--		40.74	19.47	--	21.27	940	21	<0.3	23	2.1	--	--	SUP	--	--	--	--
10/15/1991	--		40.74	20.46	--	20.28	--	--	--	--	--	--	--	--	--	--	--	--
12/4/1991	--		40.74	18.29	--	22.45	--	--	--	--	--	--	--	--	--	--	--	--
12/16/1991	--		40.74	18.34	--	22.40	--	--	--	--	--	--	--	--	--	--	--	--
1/6/1992	--		40.74	18.50	--	22.24	580	6.1	1	6.1	7.1	--	--	ANA	--	--	--	--
1/22/1992	--		40.74	17.86	--	22.88	--	--	--	--	--	--	--	--	--	--	--	--
1/28/1992	--		40.74	15.84	--	24.90	--	--	--	--	--	--	--	--	--	--	--	--
2/5/1992	--		40.74	17.53	--	23.21	--	--	--	--	--	--	--	--	--	--	--	--
2/12/1992	--		40.74	17.15	--	23.59	--	--	--	--	--	--	--	--	--	--	--	--
2/17/1992	--		40.74	16.18	--	24.56	--	--	--	--	--	--	--	--	--	--	--	--
4/3/1992	--		40.74	14.80	--	25.94	--	--	--	--	--	--	--	--	--	--	--	--
4/8/1992	--		40.74	17.06	--	23.68	1,100	30	4.6	32	11	--	--	ANA	--	--	--	--
4/14/1992	--		40.74	15.22	--	25.52	--	--	--	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-3 Cont.																		
4/29/1992	--		40.74	15.90	--	24.84	--	--	--	--	--	--	--	--	--	--	--	--
5/7/1992	--		40.74	16.35	--	24.39	--	--	--	--	--	--	--	--	--	--	--	--
7/3/1992	--		40.74	17.74	--	23.00	1,200	38	<2.5	24	<2.5	--	--	ANA	--	--	--	--
10/8/1992	--		40.74	19.06	--	21.68	1,400	31	<0.5	25	13	--	--	ANA	--	--	--	--
12/31/1992	--		40.74	16.61	--	24.13	820	12	4.1	13	5.9	--	--	ANA	--	--	--	--
12/31/1992	--	h	40.74	--	--	--	960	11	3.6	10	3.8	--	--	ANA	--	--	--	--
4/21/1993	--	n	40.74	14.24	--	26.50	420	5.6	<0.5	3.9	1.4	--	--	PACE	--	--	--	--
4/21/1993	--	h, n	40.74	--	--	--	390	5	<0.5	3.7	1.5	--	--	PACE	--	--	--	--
7/7/1993	--	i, n	40.13	15.19	--	24.94	54	0.6	0.6	<0.5	<0.5	12.68	--	PACE	--	--	--	--
9/21/1993	--	n	40.13	16.58	--	23.55	540	7.9	0.9	4.7	2.4	--	--	PACE	--	--	--	--
12/17/1993	--		40.13	15.82	--	24.31	--	--	--	--	--	--	--	--	--	--	--	--
12/23/1993	--	h	40.13	--	--	--	480	9.2	<0.5	5.4	5.3	--	--	PACE	--	--	--	--
12/23/1993	--	n	40.13	--	--	--	500	9.8	1.5	3.3	2.1	--	--	PACE	--	--	--	--
4/7/1994	--	h	40.13	--	--	--	460	20	7.7	9	11	--	--	PACE	--	--	--	--
4/7/1994	--	n	40.13	28.50	--	11.63	460	20	7.4	8.9	11	18.2	--	PACE	--	--	--	--
7/6/1994	--	n	40.13	--	--	--	300	10	0.6	1.7	6.4	5.54	4.8	PACE	--	--	--	--
10/7/1994	--	n	40.13	27.65	--	12.48	620	28	<0.5	2.2	12	31.4	4.4	PACE	--	--	31	--
1/27/1995	--	j	40.13	27.65	--	12.48	--	--	--	--	--	--	--	--	--	--	--	--
3/30/1995	--		40.13	26.05	--	14.08	300	10	6	3.4	18	--	7.6	ATI	--	--	--	--
6/20/1995	--		40.13	19.49	--	20.64	170	7.2	3.4	0.85	15	--	--	ATI	--	--	--	--
10/3/1995	--		40.13	24.93	--	15.20	170	2.1	<0.50	0.81	8	6.7	--	ATI	--	--	--	--
12/6/1995	--	h	40.13	--	--	--	1,400	6.1	3	1.7	190	53	--	ATI	--	--	--	--
12/6/1995	--		40.13	25.14	--	14.99	1,700	6.7	3.1	2.8	210	64	--	ATI	--	--	--	--
3/21/1996	--		40.13	9.48	--	30.65	<50	0.5	<1	<1	1	<10	7.3	SPL	--	--	--	--
6/21/1996	--		40.13	11.60	--	28.53	<50	13	<1	<1	<1	12	7.6	SPL	--	--	--	--
9/6/1996	--		40.13	12.23	--	27.90	--	--	--	--	--	--	--	--	--	--	--	--
9/9/1996	--		40.13	--	--	--	<250	6.5	<5.0	<5.0	<5.0	<5.0	7.6	SPL	--	--	--	--
12/19/1996	--		40.13	10.46	--	29.67	<50	4.1	<1.0	<1.0	<1.0	<10	8.4	SPL	--	--	--	--
3/17/1997	--		40.13	9.86	--	30.27	50	<5	<1.0	<1.0	<1.0	<10	7.4	SPL	--	--	--	--
8/12/1997	--		40.13	12.11	--	28.02	<50	0.79	<1.0	<1.0	<1.0	10	6.1	SPL	--	--	--	--
12/10/1997	--		40.13	10.90	--	29.23	<50	<0.5	<1.0	<1.0	<1.0	<10	3.2	SPL	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-3 Cont.																		
3/12/1998	--	h	40.13	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	--	SPL	--	--	--	--
3/12/1998	--		40.13	10.20	--	29.93	<50	<0.5	<1.0	<1.0	<1.0	<10	6.3	SPL	--	--	--	--
6/23/1998	--		40.13	10.17	--	29.96	50	<0.5	<1.0	<1.0	<1.0	<10	3.4	SPL	--	--	--	--
3/31/1999	--		40.13	11.45	--	28.68	60	<1.0	<1.0	<1.0	<1.0	6.2	--	SPL	--	--	--	--
8/25/1999	--		40.13	12.52	--	27.61	<50	<1.0	<1.0	<1.0	<1.0	7.7	--	SPL	--	--	--	--
3/9/2000	--		40.13	12.39	--	27.74	<50	<0.5	0.54	<0.5	1.7	6.3	--	PACE	--	--	--	--
3/8/2001	--		40.13	10.41	--	29.72	<50	<0.5	<0.5	<0.5	0.59	7.7	--	PACE	--	--	--	--
3/8/2002	--		40.13	9.83	--	30.30	62	<0.5	<0.5	<0.5	<1.0	11.6	--	PACE	--	--	--	--
3/18/2002	--		40.13	9.20	--	30.93	--	--	--	--	--	--	--	--	--	--	--	--
3/11/2003	--		40.13	10.54	--	29.59	<50	<0.50	<0.50	<0.50	<0.50	6.7	--	SEQ	--	--	--	--
12/09/2003	P		40.13	12.88	--	27.25	<50	<0.50	<0.50	<0.50	<0.50	6.4	--	SEQM	6.3	--	--	--
03/09/2004	P		40.13	9.49	--	30.64	<50	<0.50	<0.50	<0.50	0.63	6.9	--	SEQM	6.1	--	--	--
09/17/2004	--		40.13	12.76	--	27.37	--	--	--	--	--	--	--	--	--	--	--	--
03/07/2005	P		40.13	7.30	--	32.83	<50	<0.50	<0.50	<0.50	0.52	5.1	--	SEQM	7.0	--	--	--
09/06/2005	--		42.92	10.81	--	32.11	--	--	--	--	--	--	--	--	--	--	--	--
03/06/2006	P	u	42.92	8.85	--	34.07	<50	<0.50	<0.50	<0.50	<0.50	6.9	--	SEQM	6.8	--	--	--
9/5/2006	--		42.92	9.86	--	33.06	--	--	--	--	--	--	--	--	--	--	--	--
3/5/2007	P		42.92	8.33	--	34.59	<50	<0.50	<0.50	<0.50	<0.50	5.4	2.31	TAMC	6.95	--	--	--
9/7/2007	--		42.92	11.10	--	31.82	--	--	--	--	--	--	--	--	--	--	--	--
3/6/2008	P		42.92	8.92	--	34.00	<50	<0.50	<0.50	<0.50	<0.50	4.2	2.5	CEL	6.86	--	--	--
9/3/2008	--		42.92	12.19	--	30.73	--	--	--	--	--	--	--	--	--	--	--	--
3/4/2009	P		42.92	8.28	--	34.64	<50	<0.50	<0.50	<0.50	<0.50	4.9	1.19	CEL	6.71	--	--	--
9/30/2009	P	x	40.13	11.60	--	28.53	<50	<0.50	<0.50	<0.50	<0.50	6.8	--	CEL	7.12	--	--	--
10/28/2009	--		40.13	10.40	--	29.73	--	--	--	--	--	--	--	--	--	--	--	--
3/23/2010	P		40.13	8.27	--	31.86	<50	<0.50	<0.50	<0.50	<1.0	3.2	2.47	TAMC	6.61	--	--	--
6/10/2010	--		40.13	9.40	--	30.73	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	P		40.13	11.14	--	28.99	<50	<0.50	<0.50	<0.50	<1.0	5.9	0.91	TAMC	6.60	--	--	--
2/23/2011	P		40.13	8.71	--	31.42	--	--	--	--	--	0.58	2.76	TAMC	6.83	--	--	--
MW-4																		
2/5/1990	--		40.11	20.75	--	19.36	620	<0.5	9	<0.5	10	--	--	SUP	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-4 Cont.																		
2/14/1991	--		40.11	21.73	--	18.38	180	<0.3	<0.3	0.4	2	--	--	SUP	--	--	--	--
5/13/1991	--		40.11	18.55	--	21.56	72	0.7	<0.3	<0.3	<0.3	--	--	SUP	--	--	--	--
7/24/1991	--		40.11	21.31	--	18.80	--	--	--	--	--	--	--	--	--	--	--	--
10/3/1991	--		40.11	22.57	--	17.54	57	<0.3	<0.3	<0.3	<0.3	--	--	SUP	--	--	--	--
10/15/1991	--		40.11	22.88	--	17.23	--	--	--	--	--	--	--	--	--	--	--	--
12/4/1991	--		40.11	22.54	--	17.57	--	--	--	--	--	--	--	--	--	--	--	--
12/16/1991	--		40.11	22.59	--	17.52	--	--	--	--	--	--	--	--	--	--	--	--
1/6/1992	--		40.11	22.00	--	18.11	480	0.8	3.2	1.9	7.7	--	--	ANA	--	--	--	--
1/22/1992	--		40.11	21.58	--	18.53	--	--	--	--	--	--	--	--	--	--	--	--
1/28/1992	--		40.11	21.42	--	18.69	--	--	--	--	--	--	--	--	--	--	--	--
2/5/1992	--		40.11	21.10	--	19.01	--	--	--	--	--	--	--	--	--	--	--	--
2/12/1992	--		40.11	20.74	--	19.37	--	--	--	--	--	--	--	--	--	--	--	--
2/17/1992	--		40.11	19.78	--	20.33	--	--	--	--	--	--	--	--	--	--	--	--
4/3/1992	--		40.11	16.80	--	23.31	--	--	--	--	--	--	--	--	--	--	--	--
4/8/1992	--		40.11	17.13	--	22.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
4/14/1992	--		40.11	17.74	--	22.37	--	--	--	--	--	--	--	--	--	--	--	--
4/29/1992	--		40.11	18.56	--	21.55	--	--	--	--	--	--	--	--	--	--	--	--
5/7/1992	--		40.11	19.10	--	21.01	--	--	--	--	--	--	--	--	--	--	--	--
7/3/1992	--		40.11	20.71	--	19.40	<50	0.6	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
10/8/1992	--		40.11	22.43	--	17.68	270	<0.5	2.1	2.5	3.2	--	--	ANA	--	--	--	--
12/31/1992	--		40.11	19.58	--	20.53	150	<0.5	<0.5	<0.5	1.3	--	--	ANA	--	--	--	--
4/21/1993	--	n	40.11	17.79	--	22.32	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
7/7/1993	--	n	40.11	18.44	--	21.67	160	1.2	5.4	3.8	19	5.51	--	PACE	--	--	--	--
9/21/1993	--	n	40.11	20.14	--	19.97	71	<0.5	1.9	<0.5	2.1	--	--	PACE	--	--	--	--
12/17/1993	--		40.11	19.80	--	20.31	--	--	--	--	--	--	--	--	--	--	--	--
12/23/1993	--	n	40.11	--	--	--	<50	3.1	1.6	0.8	3.8	5.7	--	PACE	--	--	--	--
4/7/1994	--	n	40.11	19.12	--	20.99	<50	<0.5	<0.5	<0.5	<0.5	11.7	6.6	PACE	--	--	--	--
7/6/1994	--	n	40.11	19.90	--	20.21	62	<0.5	<0.5	<0.5	<0.5	--	4.1	PACE	--	--	--	--
10/7/1994	--	n	40.11	20.07	--	20.04	<50	<0.5	<0.5	<0.5	<0.5	7.38	3.6	PACE	--	--	--	--
1/27/1995	--		40.11	13.72	--	26.39	<50	<0.5	<0.5	<0.5	<1	--	2.7	ATI	--	--	--	--
3/30/1995	--		40.11	11.46	--	28.65	<50	<0.50	<0.50	<0.50	<1.0	--	8.3	ATI	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-4 Cont.																		
6/20/1995	--		40.11	14.78	--	25.33	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	--	--	--
10/3/1995	--		40.11	19.62	--	20.49	<50	<0.50	<0.50	<0.50	<1.0	5	5.8	ATI	--	--	--	--
12/6/1995	--		40.11	19.91	--	20.20	<50	<0.50	<0.50	<0.50	<1.0	47	5.7	ATI	--	--	--	--
3/21/1996	--		40.11	11.12	--	28.99	<50	<0.5	<1	<1	<1	<10	7.8	SPL	--	--	--	--
6/21/1996	--		40.11	12.21	--	27.90	<50	<0.5	<1	<1	<1	<10	7.9	SPL	--	--	--	--
9/6/1996	--		40.11	12.89	--	27.22	--	--	--	--	--	--	--	--	--	--	--	--
9/9/1996	--		40.11	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	7.2	SPL	--	--	--	--
12/19/1996	--		40.11	11.01	--	29.10	<50	<0.5	<1.0	<1.0	<1.0	<10	8.4	SPL	--	--	--	--
3/17/1997	--		40.11	10.42	--	29.69	--	--	--	--	--	--	--	--	--	--	--	--
8/12/1997	--		40.11	12.77	--	27.34	--	--	--	--	--	--	--	--	--	--	--	--
12/10/1997	--		40.11	11.22	--	28.89	--	--	--	--	--	--	--	--	--	--	--	--
3/12/1998	--		40.11	10.81	--	29.30	--	--	--	--	--	--	--	--	--	--	--	--
6/23/1998	--		40.11	10.61	--	29.50	--	--	--	--	--	--	--	--	--	--	--	--
3/31/1999	--		40.11	11.46	--	28.65	--	--	--	--	--	--	--	--	--	--	--	--
8/25/1999	--		40.11	16.16	--	23.95	--	--	--	--	--	--	--	--	--	--	--	--
3/9/2000	--		40.11	12.23	--	27.88	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2001	--		40.11	11.04	--	29.07	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2002	--		40.11	12.73	--	27.38	--	--	--	--	--	--	--	--	--	--	--	--
3/18/2002	--		40.11	11.62	--	28.49	--	--	--	--	--	--	--	--	--	--	--	--
3/11/2003	--		40.11	13.44	--	26.67	--	--	--	--	--	--	--	--	--	--	--	--
12/09/2003	P		40.11	15.03	--	25.08	<250	<2.5	<2.5	<2.5	<2.5	130	--	SEQM	6.1	--	--	--
03/09/2004	P		40.11	11.04	--	29.07	<50	<0.50	<0.50	<0.50	<0.50	35	--	SEQM	5.5	--	--	--
09/17/2004	P		40.11	16.75	--	23.36	<250	<2.5	<2.5	<2.5	<2.5	140	--	SEQM	6.5	--	--	--
03/07/2005	P		40.11	11.02	--	29.09	67	<0.50	<0.50	<0.50	<0.50	42	--	SEQM	6.6	--	--	--
09/06/2005	P	s, t	42.88	14.64	--	28.24	81	<0.50	<0.50	<0.50	<1.5	180	--	SEQM	6.7	--	--	--
03/06/2006	P		42.88	12.42	--	30.46	<100	<1.0	<1.0	<1.0	<1.0	110	--	SEQM	6.4	--	--	--
9/5/2006	--		42.88	13.81	--	29.07	130	<1.0	<1.0	<1.0	<1.0	190	--	TAMC	6.5	--	--	--
3/5/2007	P		42.88	10.63	--	32.25	<50	<0.50	<0.50	<0.50	<0.50	13	3.34	TAMC	7.11	--	--	--
9/7/2007	P	s, v (MTBE)	42.88	14.77	--	28.11	90	<0.50	<0.50	<0.50	<0.50	130	1.14	TAMC	6.68	--	--	--
3/6/2008	P		42.88	11.30	--	31.58	<50	<0.50	<0.50	<0.50	<0.50	170	1.76	CEL	6.62	--	--	--
9/3/2008	P		42.88	16.11	--	26.77	<50	<5.0	<5.0	<5.0	<5.0	150	1.97	CEL	6.33	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-4 Cont.																		
3/4/2009	P		42.88	10.78	--	32.10	140	<5.0	<5.0	<5.0	<5.0	110	1.31	CEL	6.47	--	--	--
9/30/2009	P	x, y (GRO)	40.10	16.48	--	23.62	240	<2.0	<2.0	<2.0	<2.0	140	0.08	CEL	6.88	--	--	--
10/28/2009	--		40.10	15.07	--	25.03	--	--	--	--	--	--	--	--	--	--	--	--
3/23/2010	P		40.10	10.82	--	29.28	<50	<0.50	<0.50	<0.50	<1.0	84	0.63	TAMC	6.39	--	--	--
6/10/2010	--		40.10	12.67	--	27.43	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	P		40.10	15.72	--	24.38	120	<0.50	<0.50	<0.50	<1.0	72	1.01	TAMC	6.11	--	--	--
2/23/2011	P		40.10	11.43	--	28.67	<50	--	--	--	--	55	0.69	TAMC	6.10	--	--	--
MW-5																		
10/3/1991	--		39.55	18.08	--	21.47	79,000	13,000	7,400	1,400	6,200	--	--	SUP	--	--	--	--
10/15/1991	--		39.55	18.55	--	21.00	--	--	--	--	--	--	--	--	--	--	--	--
12/4/1991	--	a	39.55	18.44	0.13	20.98	--	--	--	--	--	--	--	--	--	--	--	--
12/16/1991	--	a	39.55	18.66	0.01	20.88	--	--	--	--	--	--	--	--	--	--	--	--
1/6/1992	--	a	39.55	19.12	0.11	20.32	--	--	--	--	--	--	--	--	--	--	--	--
1/22/1992	--		39.55	14.59	--	24.96	--	--	--	--	--	--	--	--	--	--	--	--
1/28/1992	--		39.55	15.25	--	24.30	--	--	--	--	--	--	--	--	--	--	--	--
2/5/1992	--	q	39.55	15.58	--	23.97	--	--	--	--	--	--	--	--	--	--	--	--
2/12/1992	--	a	39.55	15.54	0.01	24.00	--	--	--	--	--	--	--	--	--	--	--	--
2/17/1992	--	q	39.55	13.98	--	25.57	--	--	--	--	--	--	--	--	--	--	--	--
4/3/1992	--	a	39.55	13.63	0.04	25.88	--	--	--	--	--	--	--	--	--	--	--	--
4/8/1992	--	a	39.55	13.17	0.01	26.37	--	--	--	--	--	--	--	--	--	--	--	--
4/14/1992	--	a	39.55	13.45	0.01	26.09	--	--	--	--	--	--	--	--	--	--	--	--
4/29/1992	--	a	39.55	13.75	0.07	25.73	--	--	--	--	--	--	--	--	--	--	--	--
5/7/1992	--	a	39.55	16.15	0.04	23.36	--	--	--	--	--	--	--	--	--	--	--	--
7/3/1992	--	a	39.55	17.67	0.08	21.80	--	--	--	--	--	--	--	--	--	--	--	--
9/1/1992	--	a	39.55	17.83	0.50	21.22	--	--	--	--	--	--	--	--	--	--	--	--
10/8/1992	--	a	39.55	17.86	0.92	20.77	--	--	--	--	--	--	--	--	--	--	--	--
12/31/1992	--	q	39.55	15.20	--	24.35	--	--	--	--	--	--	--	--	--	--	--	--
4/21/1993	--	a	39.55	12.64	0.02	26.89	--	--	--	--	--	--	--	--	--	--	--	--
7/7/1993	--	a, i	39.14	12.68	0.82	25.64	--	--	--	--	--	--	--	--	--	--	--	--
9/21/1993	--	q	39.14	14.35	--	24.79	--	--	--	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-5 Cont.																		
12/17/1993	--	a	39.14	12.61	0.41	26.12	--	--	--	--	--	--	--	--	--	--	--	--
4/7/1994	--	n	39.14	30.00	--	9.14	66,000	3,000	1,700	250	6,800	2,002	--	PACE	--	--	--	--
7/6/1994	--	n	39.14	--	--	--	29,000	1,900	330	63	2,700	1,141	--	PACE	--	--	--	--
10/7/1994	--	h	39.14	--	--	--	45,000	2,900	540	260	2,600	--	--	PACE	--	--	--	--
10/7/1994	--	n	39.14	28.70	--	10.44	250,000	2,600	660	830	5,200	37.7	4.2	PACE	--	--	--	--
1/27/1995	--		39.14	28.70	--	10.44	--	--	--	--	--	--	--	--	--	--	--	--
3/30/1995	--	h	39.14	--	--	--	43,000	7,900	2,500	440	6,200	--	--	ATI	--	--	--	--
3/30/1995	--		39.14	28.95	--	10.19	50,000	7,900	2,600	520	6,400	--	5.5	ATI	--	--	--	--
6/20/1995	--	h	39.14	--	--	--	26,000	3,500	290	<25	3,300	--	--	ATI	--	--	--	--
6/20/1995	--		39.14	22.54	--	16.60	34,000	5,100	1,900	300	3,700	--	--	ATI	--	--	--	--
10/3/1995	--	h	39.14	--	--	--	12,000	46	39	10	1,600	320	--	ATI	--	--	--	--
10/3/1995	--		39.14	18.84	--	20.30	12,000	68	42	11	1,600	330	--	ATI	--	--	--	--
12/6/1995	--		39.14	19.07	--	20.07	16,000	1,200	93	51	700	600	--	ATI	--	--	--	--
3/21/1996	--		39.14	7.43	--	31.71	1,500	89	28	6	250	<10	7.2	SPL	--	--	--	--
3/21/1996	--	h	39.14	--	--	--	1,900	92	30	7	270	<10	--	SPL	--	--	--	--
6/21/1996	--	h	39.14	--	--	--	2,700	680	140	20	400	<50	--	SPL	--	--	--	--
6/21/1996	--		39.14	9.87	--	29.27	3,500	740	150	19	400	<100	7.1	SPL	--	--	--	--
9/6/1996	--		39.14	10.52	--	28.62	--	--	--	--	--	--	--	--	--	--	--	--
9/9/1996	--		39.14	--	--	--	82,000	3,100	1,700	850	9,100	<2500	7.5	SPL	--	--	--	--
9/9/1996	--	h	39.14	--	--	--	90,000	2,900	1,600	670	6,900	<2500	--	SPL	--	--	--	--
12/19/1996	--	h	39.14	--	--	--	26,000	490	430	63	1,140	<500	--	SPL	--	--	--	--
12/19/1996	--		39.14	8.62	--	30.52	41,000	790	820	120	2,040	<500	7.7	SPL	--	--	--	--
3/17/1997	--		39.14	8.22	--	30.92	5,500	1.9	2.4	<1.0	<1.0	29	6.4	SPL	--	--	--	--
3/17/1997	--	h	39.14	--	--	--	6,600	2.5	2.7	<1.0	<1.0	28	--	SPL	--	--	--	--
8/12/1997	--	h	39.14	--	--	--	36,000	6,100	2,500	720	4,500	<500	--	SPL	--	--	--	--
8/12/1997	--	a	39.14	12.18	0.22	26.74	33,000	6,400	2,400	680	4,400	<1000	6.8	SPL	--	--	--	--
12/10/1997	--	h	39.14	--	--	--	37,000	2,900	2,500	440	4,800	--	--	SPL	--	--	--	--
12/10/1997	--	a	39.14	10.78	0.06	28.30	31,000	3,000	2,500	560	5,100	500	1.8	SPL	--	--	--	--
3/12/1998	--	a	39.14	10.11	0.22	28.81	100,000	1,600	870	250	2,600	<250	6.1	SPL	--	--	--	--
6/23/1998	--	h	39.14	--	--	--	27,000	2,600	840	400	2,950	<500	--	SPL	--	--	--	--
6/23/1998	--	a	39.14	10.20	0.02	28.92	27,000	2,500	840	370	2,900	<250	2.1	SPL	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-5 Cont.																		
3/31/1999	--	f	39.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/25/1999	--	a	39.14	14.69	0.38	24.07	180,000	2,700	400	830	2,800	26	--	SPL	--	--	--	--
3/9/2000	--	a	39.14	14.83	0.60	23.71	53,000	12,000	2,600	1,900	9,100	<5.0	--	PACE	--	--	--	--
3/8/2001	--	f	39.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2002	--	a	39.14	11.45	1.50	26.19	33,000	8,240	1,080	1,010	2,900	34.3	--	PACE	--	--	--	--
3/18/2002	--		39.14	8.03	--	31.11	--	--	--	--	--	--	--	--	--	--	--	--
3/11/2003	--	a	39.14	9.60	0.45	29.09	--	--	--	--	--	--	--	--	--	--	--	--
12/09/2003	--	a	39.14	11.44	0.03	27.72	--	--	--	--	--	--	--	--	--	--	--	--
03/09/2004	P		39.14	7.91	--	31.23	31,000	3,900	1,100	780	3,600	<50	--	SEQM	6.6	--	--	--
09/17/2004	--	a	39.14	12.13	0.15	27.13	--	--	--	--	--	--	--	--	--	--	--	--
03/07/2005	--	a	39.14	8.62	0.02	27.13	--	--	--	--	--	--	--	--	--	--	--	--
09/06/2005	--	a	41.98	11.16	0.18	30.96	--	--	--	--	--	--	--	--	--	--	--	--
03/06/2006	P	a, q	41.98	8.60	SHEEN	33.38	32,000	7,500	810	1,200	2,300	<50	--	SEQM	6.4	--	--	--
9/5/2006	--	a	41.98	6.16	0.03	35.82	--	--	--	--	--	--	--	--	--	--	--	--
3/5/2007	P	q	41.98	8.34	SHEEN	33.64	90,000	10,000	4,200	1,900	7,900	<50	1.30	TAMC	6.91	--	--	--
9/7/2007	--	a	41.98	15.15	0.15	26.94	--	--	--	--	--	--	--	--	--	--	--	--
1/14/2008	--	a	41.98	10.30	0.49	32.05	--	--	--	--	--	--	--	--	--	--	--	--
2/27/2008	--	a	41.98	13.22	0.12	28.85	--	--	--	--	--	--	--	--	--	--	--	--
3/6/2008	--	a	41.98	12.90	0.14	29.19	--	--	--	--	--	--	--	--	--	--	--	--
9/3/2008	--	a	41.98	12.90	0.99	29.82	--	--	--	--	--	--	--	--	--	--	--	--
3/4/2009	--	a	41.98	8.45	0.16	33.65	--	--	--	--	--	--	--	--	--	--	--	--
4/8/2009	--	x	39.14	9.05	0.67	30.59	--	--	--	--	--	--	--	--	--	--	--	--
5/11/2009	--		39.14	9.10	0.32	30.28	--	--	--	--	--	--	--	--	--	--	--	--
6/16/2009	--		39.14	9.15	0.02	30.01	--	--	--	--	--	--	--	--	--	--	--	--
7/22/2009	--		39.14	9.33	0.12	29.90	--	--	--	--	--	--	--	--	--	--	--	--
8/6/2009	--		39.14	10.05	0.01	29.10	--	--	--	--	--	--	--	--	--	--	--	--
9/30/2009	--		39.14	10.55	0.06	28.64	--	--	--	--	--	--	--	--	--	--	--	--
10/28/2009	--		39.14	10.48	--	28.66	--	--	--	--	--	--	--	--	--	--	--	--
3/23/2010	P		39.14	7.10	--	32.04	71,000	1,400	380	620	1,800	<5.0	--	TAMC	6.50	--	--	--
6/10/2010	--		39.14	8.26	0.06	30.93	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	--		39.14	9.14	0.04	30.03	--	--	--	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-5 Cont.																		
2/23/2011	--		39.14	8.33	0.01	30.82	--	--	--	--	--	--	--	--	--	--	--	--
MW-6																		
10/3/1991	--		41.59	20.73	--	20.86	<50	0.7	0.8	<0.3	1.3	--	--	SUP	--	--	--	--
10/15/1991	--		41.59	21.20	--	20.39	--	--	--	--	--	--	--	--	--	--	--	--
12/4/1991	--		41.59	21.26	--	20.33	--	--	--	--	--	--	--	--	--	--	--	--
12/16/1991	--		41.59	21.12	--	20.47	--	--	--	--	--	--	--	--	--	--	--	--
1/6/1992	--		41.59	20.29	--	21.30	<50	<0.5	<0.5	<0.5	1.6	--	--	ANA	--	--	--	--
1/22/1992	--		41.59	20.12	--	21.47	--	--	--	--	--	--	--	--	--	--	--	--
1/28/1992	--		41.59	20.20	--	21.39	--	--	--	--	--	--	--	--	--	--	--	--
2/5/1992	--		41.59	20.09	--	21.50	--	--	--	--	--	--	--	--	--	--	--	--
2/12/1992	--		41.59	19.15	--	22.44	--	--	--	--	--	--	--	--	--	--	--	--
2/17/1992	--		41.59	18.02	--	23.57	--	--	--	--	--	--	--	--	--	--	--	--
4/3/1992	--		41.59	16.62	--	24.97	--	--	--	--	--	--	--	--	--	--	--	--
4/8/1992	--		41.59	17.06	--	24.53	<50	0.6	<0.5	0.8	<0.5	--	--	ANA	--	--	--	--
4/14/1992	--		41.59	17.23	--	24.36	--	--	--	--	--	--	--	--	--	--	--	--
4/29/1992	--		41.59	18.12	--	23.47	--	--	--	--	--	--	--	--	--	--	--	--
5/7/1992	--		41.59	18.52	--	23.07	--	--	--	--	--	--	--	--	--	--	--	--
7/3/1992	--		41.59	19.71	--	21.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
10/8/1992	--		41.59	21.22	--	20.37	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
10/8/1992	--	h	41.59	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
12/31/1992	--		41.59	21.33	--	20.26	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
4/21/1993	--	n	41.59	16.45	--	25.14	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
7/7/1993	--	j, n	41.59	18.68	--	22.91	<50	<0.5	<0.5	<0.5	<0.5	28.96	--	PACE	--	--	29	--
9/21/1993	--	n	41.59	19.64	--	21.95	<50	<0.5	<0.5	<0.5	1.6	--	--	PACE	--	--	--	--
12/17/1993	--		41.59	21.08	--	20.51	--	--	--	--	--	--	--	--	--	--	--	--
12/23/1993	--	n	41.59	--	--	--	<50	<0.5	0.5	<0.5	0.6	13.95	--	PACE	--	--	--	--
4/7/1994	--	n	41.59	21.27	--	20.32	<50	<0.5	<0.5	<0.5	<0.5	35.1	6.1	PACE	--	--	--	--
7/6/1994	--	n	41.59	19.81	--	21.78	<50	<0.5	<0.5	<0.5	<0.5	--	4.0	PACE	--	--	--	--
7/6/1994	--	h	41.59	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
10/7/1994	--	j, n	41.59	21.25	--	20.34	<50	<0.5	<0.5	<0.5	<0.5	24.3	3.5	PACE	--	--	24	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-6 Cont.																		
1/27/1995	--		41.59	12.39	--	29.20	<50	<0.5	<0.5	<0.5	<1	--	4.2	ATI	--	--	--	--
3/30/1995	--		41.59	11.34	--	30.25	<50	<0.50	<0.50	<0.50	<1.0	--	6.1	ATI	--	--	--	--
6/20/1995	--		41.59	15.12	--	26.47	<50	<0.50	<0.50	<0.50	<1.0	--	--	ATI	--	--	--	--
10/3/1995	--		41.59	20.68	--	20.91	<50	<0.50	<0.50	<0.50	<1.0	66	6.4	ATI	--	--	--	--
12/6/1995	--		41.59	23.77	--	17.82	<50	<0.50	<0.50	<0.50	<1.0	45	5.7	ATI	--	--	--	--
3/21/1996	--		41.59	11.55	--	30.04	<50	<0.5	<1	<1	<1	41	9.1	SPL	--	--	--	--
6/21/1996	--		41.59	12.60	--	28.99	<50	<0.5	<1	<1	<1	<10	8.6	SPL	--	--	--	--
9/6/1996	--		41.59	13.25	--	28.34	--	--	--	--	--	--	--	--	--	--	--	--
9/9/1996	--	k	41.59	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	22/22	7.9	SPL	--	--	--	--
12/19/1996	--		41.59	11.45	--	30.14	<50	<0.5	<1.0	<1.0	<1.0	<10	7.7	SPL	--	--	--	--
3/17/1997	--		41.59	10.80	--	30.79	--	--	--	--	--	--	--	--	--	--	--	--
8/12/1997	--		41.59	13.11	--	28.48	--	--	--	--	--	--	--	--	--	--	--	--
12/10/1997	--		41.59	13.84	--	27.75	--	--	--	--	--	--	--	--	--	--	--	--
3/12/1998	--		41.59	11.17	--	30.42	--	--	--	--	--	--	--	--	--	--	--	--
6/23/1998	--		41.59	13.27	--	28.32	--	--	--	--	--	--	--	--	--	--	--	--
3/31/1999	--		41.59	12.91	--	28.68	--	--	--	--	--	--	--	--	--	--	--	--
8/25/1999	--		41.59	15.93	--	25.66	--	--	--	--	--	--	--	--	--	--	--	--
3/9/2000	--		41.59	11.49	--	30.10	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2001	--		41.59	10.81	--	30.78	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2002	--		41.59	14.28	--	27.31	--	--	--	--	--	--	--	--	--	--	--	--
3/18/2002	--		41.59	13.10	--	28.49	--	--	--	--	--	--	--	--	--	--	--	--
3/11/2003	--		41.59	13.63	--	27.96	--	--	--	--	--	--	--	--	--	--	--	--
12/09/2003	P		41.59	14.26	--	27.33	<50	<0.50	<0.50	<0.50	<0.50	12	--	SEQM	6.4	--	--	--
03/09/2004	NP		41.59	11.87	--	29.72	<50	<0.50	<0.50	<0.50	<0.50	10	--	SEQM	7.1	--	--	--
09/17/2004	--		41.59	16.45	--	25.14	--	--	--	--	--	--	--	--	--	--	--	--
03/07/2005	P		41.59	13.65	--	27.94	<50	<0.50	<0.50	<0.50	<0.50	5.8	--	SEQM	6.7	--	--	--
09/06/2005	--		44.37	14.23	--	30.14	--	--	--	--	--	--	--	--	--	--	--	--
03/06/2006	P	u	44.37	12.89	--	31.48	<50	<0.50	<0.50	<0.50	<0.50	8.1	--	SEQM	6.8	--	--	--
9/5/2006	--		44.37	14.10	--	30.27	--	--	--	--	--	--	--	--	--	--	--	--
3/5/2007	P		44.37	11.43	--	32.94	<50	<0.50	<0.50	<0.50	<0.50	5.6	2.57	TAMC	7.70	--	--	--
9/7/2007	--		44.37	16.00	--	28.37	--	--	--	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-6 Cont.																		
3/6/2008	P		44.37	11.84	--	32.53	<50	<0.50	<0.50	<0.50	<0.50	1.9	2.34	CEL	6.81	--	--	--
9/3/2008	--		44.37	16.24	--	28.13	--	--	--	--	--	--	--	--	--	--	--	--
3/4/2009	P		44.37	11.68	--	32.69	<50	<0.50	<0.50	<0.50	<0.50	2.8	4.66	CEL	6.82	--	--	--
9/30/2009	P	x	41.58	16.83	--	24.75	<50	<0.50	<0.50	<0.50	<0.50	4.4	0.10	CEL	7.00	--	--	--
10/28/2009	--		41.58	15.63	--	25.95	--	--	--	--	--	--	--	--	--	--	--	--
3/23/2010	P		41.58	11.48	--	30.10	<50	<0.50	<0.50	<0.50	<1.0	1.0	--	TAMC	6.57	--	--	--
6/10/2010	--		41.58	12.54	--	29.04	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	P		41.58	15.95	--	25.63	<50	<0.50	<0.50	<0.50	<1.0	0.80	--	TAMC	6.38	--	--	--
2/23/2011	P		41.58	12.34	--	29.24	--	--	--	--	--	<0.50	1.60	TAMC	6.42	--	--	--
MW-7																		
10/3/1991	--		40.64	14.93	--	25.71	360	62	13	3.4	20	--	--	SUP	--	--	--	--
10/15/1991	--		40.64	15.16	--	25.48	--	--	--	--	--	--	--	--	--	--	--	--
12/4/1991	--		40.64	15.41	--	25.23	--	--	--	--	--	--	--	--	--	--	--	--
12/16/1991	--		40.64	15.21	--	25.43	--	--	--	--	--	--	--	--	--	--	--	--
1/6/1992	--		40.64	14.56	--	26.08	1,100	170	<0.5	24	23	--	--	ANA	--	--	--	--
1/22/1992	--		40.64	14.63	--	26.01	--	--	--	--	--	--	--	--	--	--	--	--
1/28/1992	--		40.64	14.73	--	25.91	--	--	--	--	--	--	--	--	--	--	--	--
2/5/1992	--		40.64	14.58	--	26.06	--	--	--	--	--	--	--	--	--	--	--	--
2/12/1992	--		40.64	13.94	--	26.70	--	--	--	--	--	--	--	--	--	--	--	--
2/17/1992	--		40.64	13.10	--	27.54	--	--	--	--	--	--	--	--	--	--	--	--
4/3/1992	--		40.64	12.66	--	27.98	--	--	--	--	--	--	--	--	--	--	--	--
4/8/1992	--		40.64	12.77	--	27.87	750	150	<0.5	23	9.9	--	--	ANA	--	--	--	--
4/14/1992	--		40.64	13.02	--	27.62	--	--	--	--	--	--	--	--	--	--	--	--
4/29/1992	--		40.64	13.59	--	27.05	--	--	--	--	--	--	--	--	--	--	--	--
5/7/1992	--		40.64	13.95	--	26.69	--	--	--	--	--	--	--	--	--	--	--	--
7/3/1992	--		40.64	14.73	--	25.91	660	210	<2.5	33	8	--	--	ANA	--	--	--	--
10/8/1992	--		40.64	15.75	--	24.89	320	49	1.4	13	6.2	--	--	ANA	--	--	--	--
12/31/1992	--		40.64	13.57	--	27.07	900	100	<2.5	28	4.3	--	--	ANA	--	--	--	--
4/21/1993	--	n	40.64	14.56	--	26.08	510	83	1.2	10	5.8	--	--	PACE	--	--	--	--
7/7/1993	--	i, n	40.32	13.40	--	26.92	1,100	160	2	27	4	10.84	--	PACE	--	--	--	--

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA**

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-7 Cont.																		
7/7/1993	--	h, n	40.32	--	--	--	1,100	170	1.9	29	2.84	9.84	--	PACE	--	--	--	--
9/21/1993	--	h, n	40.32	--	--	--	640	140	1.7	23	2.4	--	--	PACE	--	--	--	--
9/21/1993	--	n	40.32	14.40	--	25.92	690	150	3.1	26	5.7	--	--	PACE	--	--	--	--
12/17/1993	--		40.32	13.65	--	26.67	--	--	--	--	--	--	--	--	--	--	--	--
12/23/1993	--	n	40.32	--	--	--	250	64	1.2	9	1.8	7.81	--	PACE	--	--	--	--
4/7/1994	--	n	40.32	30.62	--	9.70	140	32	1.4	<0.5	<0.5	6.32	--	PACE	--	--	--	--
7/6/1994	--	n	40.32	16.88	--	23.44	410	94	1.3	10	3.5	<5.0	4.4	PACE	--	--	--	--
10/7/1994	--	n	40.32	25.59	--	14.73	<50	9.2	<0.5	<0.5	<0.5	<5.0	4.9	PACE	--	--	--	--
1/27/1995	--		40.32	9.82	--	30.50	810	570	3	60	17	--	0.0	ATI	--	--	--	--
1/27/1995	--	h	40.32	--	--	--	930	620	4	77	21	--	--	ATI	--	--	--	--
3/30/1995	--		40.32	9.15	--	31.17	180	65	0.53	2	<1.0	--	7.8	ATI	--	--	--	--
6/20/1995	--		40.32	11.38	--	28.94	2,800	980	<5.0	<5.0	43	--	--	ATI	--	--	--	--
10/3/1995	--		40.32	29.95	--	10.37	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	--	--
12/6/1995	--		40.32	29.85	--	10.47	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	--	--
3/21/1996	--		40.32	9.76	--	30.56	1,000	390	2	40	13	<10	7.4	SPL	--	--	--	--
6/21/1996	--		40.32	11.01	--	29.31	<250	40	<5	<5	<5	<50	7.4	SPL	--	--	--	--
9/6/1996	--		40.32	11.68	--	28.64	--	--	--	--	--	--	--	--	--	--	--	--
9/9/1996	--		40.32	--	--	--	<250	13	<5.0	<5.0	<5.0	<50	7.2	SPL	--	--	--	--
12/19/1996	--		40.32	10.78	--	29.54	70	1.2	<1.0	1	<1.0	<10	8.3	SPL	--	--	--	--
3/17/1997	--		40.32	9.96	--	30.36	--	--	--	--	--	--	--	--	--	--	--	--
8/12/1997	--		40.32	11.44	--	28.88	--	--	--	--	--	--	--	--	--	--	--	--
12/10/1997	--		40.32	10.42	--	29.90	--	--	--	--	--	--	--	--	--	--	--	--
3/12/1998	--		40.32	9.51	--	30.81	--	--	--	--	--	--	--	--	--	--	--	--
6/23/1998	--		40.32	9.98	--	30.34	--	--	--	--	--	--	--	--	--	--	--	--
3/31/1999	--		40.32	10.38	--	29.94	--	--	--	--	--	--	--	--	--	--	--	--
8/25/1999	--		40.32	12.38	--	27.94	--	--	--	--	--	--	--	--	--	--	--	--
3/9/2000	--		40.32	8.48	--	31.84	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2001	--		40.32	8.37	--	31.95	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2002	--	f	40.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/18/2002	--		40.32	9.94	--	30.38	--	--	--	--	--	--	--	--	--	--	--	--
3/11/2003	--		40.32	11.26	--	29.06	--	--	--	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-7 Cont.																		
12/09/2003	P		40.32	12.76	--	27.56	270	26	<0.50	<0.50	<0.50	8.7	--	SEQM	6.1	--	--	--
03/09/2004	P		40.32	10.91	--	29.41	320	49	0.73	1.8	0.59	6.9	--	SEQM	6.2	--	--	--
09/17/2004	P		40.32	13.20	--	27.12	330	17	<0.50	<0.50	<0.50	7.0	--	SEQM	6.6	--	--	--
03/07/2005	P		40.32	8.18	--	32.14	340	41	0.79	0.79	0.73	7.2	--	SEQM	6.9	--	--	--
09/06/2005	P		43.10	11.80	--	31.30	1,100	130	1.2	1.8	<1.5	16	--	SEQM	6.7	--	--	--
03/06/2006	P		43.10	8.39	--	34.71	440	31	0.78	0.74	0.81	8.3	--	SEQM	7.1	--	--	--
9/5/2006	--		43.10	11.45	--	31.65	2,000	260	3.1	5.9	<2.5	12	--	TAMC	6.6	--	--	--
3/5/2007	P		43.10	9.31	--	33.79	2,200	110	2.2	4.0	1.8	7.6	1.06	TAMC	7.26	--	--	--
9/7/2007	P		43.10	12.18	--	30.92	220	8.4	<0.50	<0.50	<0.50	1.2	0.98	TAMC	6.89	--	--	--
3/6/2008	P		43.10	10.05	--	33.05	1,800	54	1.2	1.1	<1.0	<1.0	--	CEL	7.02	--	--	--
9/3/2008	P		43.10	13.17	--	29.93	540	13	0.69	<0.50	<0.50	5.5	4.77	CEL	6.88	--	--	--
3/4/2009	P		43.10	8.25	--	34.85	720	15	0.59	0.53	<0.50	3.4	1.29	CEL	6.93	--	--	--
9/30/2009	P	x	40.40	12.70	--	27.70	1,200	44	1.0	0.74	0.79	3.3	0.11	CEL	6.94	--	--	--
10/28/2009	--		40.40	11.17	--	29.23	--	--	--	--	--	--	--	--	--	--	--	--
3/23/2010	P		40.40	9.28	--	31.12	480	11	<0.50	<0.50	<1.0	<0.50	0.38	TAMC	6.57	--	--	--
6/10/2010	--		40.40	10.24	--	30.16	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	P		40.40	12.16	--	28.24	4,700	130	<5.0	7.4	<10	<5.0	0.98	TAMC	6.36	--	--	--
2/23/2011	P		40.40	9.62	--	30.78	2,200	26	1.1	1.4	1.6	4.0	0.72	TAMC	6.56	--	--	--
MW-8																		
10/3/1991	--		38.18	22.37	--	15.81	<50	<0.3	0.6	<0.3	0.9	--	--	SUP	--	--	--	--
10/15/1991	--		38.18	22.70	--	15.48	--	--	--	--	--	--	--	--	--	--	--	--
12/4/1991	--		38.18	22.44	--	15.74	--	--	--	--	--	--	--	--	--	--	--	--
12/16/1991	--		38.18	22.47	--	15.71	--	--	--	--	--	--	--	--	--	--	--	--
1/6/1992	--		38.18	21.94	--	16.24	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
1/22/1992	--		38.18	21.44	--	16.74	--	--	--	--	--	--	--	--	--	--	--	--
1/28/1992	--		38.18	21.20	--	16.98	--	--	--	--	--	--	--	--	--	--	--	--
2/5/1992	--		38.18	20.88	--	17.30	--	--	--	--	--	--	--	--	--	--	--	--
2/12/1992	--		38.18	20.54	--	17.64	--	--	--	--	--	--	--	--	--	--	--	--
2/17/1992	--		38.18	19.99	--	18.19	--	--	--	--	--	--	--	--	--	--	--	--
4/3/1992	--		38.18	16.75	--	21.43	--	--	--	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-8 Cont.																		
4/8/1992	--		38.18	16.57	--	21.61	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
4/14/1992	--	f	38.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/29/1992	--		38.18	18.61	--	19.57	--	--	--	--	--	--	--	--	--	--	--	--
5/7/1992	--		38.18	18.41	--	19.77	--	--	--	--	--	--	--	--	--	--	--	--
7/3/1992	--		38.18	20.35	--	17.83	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
10/8/1992	--	f	38.18	21.74	--	16.44	--	--	--	--	--	--	--	--	--	--	--	--
12/31/1992	--		38.18	19.09	--	19.09	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
4/21/1993	--	n	38.18	18.92	--	19.26	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
7/7/1993	--	n	38.18	17.76	--	20.42	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	--	--	--
9/21/1993	--	n	38.18	19.71	--	18.47	<50	2.9	2.2	2.2	7.1	--	--	PACE	--	--	--	--
12/17/1993	--		38.18	21.33	--	16.85	--	--	--	--	--	--	--	--	--	--	--	--
12/23/1993	--	n	38.18	--	--	--	<50	<0.5	<0.5	<0.5	0.6	<5.0	--	PACE	--	--	--	--
4/7/1994	--	n	38.18	21.51	--	16.67	<50	<0.5	<0.5	<0.5	<0.5	<5.0	6.6	PACE	--	--	--	--
7/6/1994	--	n	38.18	17.41	--	20.77	<50	<0.5	<0.5	<0.5	<0.5	<5.0	4.4	PACE	--	--	--	--
10/7/1994	--	n	38.18	19.20	--	18.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0	3.7	PACE	--	--	--	--
1/27/1995	--		38.18	12.25	--	25.93	<50	<0.5	<0.5	<0.5	<1	--	2.9	ATI	--	--	--	--
3/30/1995	--		38.18	10.35	--	27.83	<50	<0.50	<0.50	<0.50	<1.0	--	8.3	ATI	--	--	--	--
6/20/1995	--		38.18	13.37	--	24.81	<50	<0.50	<0.50	<0.50	<1.0	--	6.9	ATI	--	--	--	--
10/3/1995	--	f	38.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/6/1995	--		38.18	18.42	--	19.76	<50	<0.50	<0.50	<0.50	<1.0	47	5.3	ATI	--	--	--	--
3/21/1996	--	f	38.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/21/1996	--		38.18	13.03	--	25.15	<50	<0.5	<1	<1	<1	<10	7.0	SPL	--	--	--	--
9/6/1996	--		38.18	13.70	--	24.48	--	--	--	--	--	--	--	--	--	--	--	--
9/9/1996	--		38.18	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	<10	7.0	SPL	--	--	--	--
12/19/1996	--		38.18	11.93	--	26.25	<50	<0.5	<1.0	<1.0	<1.0	<10	7.6	SPL	--	--	--	--
3/17/1997	--		38.18	11.29	--	26.89	--	--	--	--	--	--	--	--	--	--	--	--
8/12/1997	--		38.18	13.73	--	24.45	--	--	--	--	--	--	--	--	--	--	--	--
12/10/1997	--		38.18	11.88	--	26.30	--	--	--	--	--	--	--	--	--	--	--	--
3/12/1998	--		38.18	11.89	--	26.29	--	--	--	--	--	--	--	--	--	--	--	--
6/23/1998	--		38.18	11.33	--	26.85	--	--	--	--	--	--	--	--	--	--	--	--
3/31/1999	--		38.18	12.68	--	25.50	--	--	--	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-8 Cont.																		
8/25/1999	--		38.18	14.93	--	23.25	--	--	--	--	--	--	--	--	--	--	--	--
3/9/2000	--		38.18	9.14	--	29.04	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2001	--		38.18	8.41	--	29.77	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2002	--		38.18	11.18	--	27.00	--	--	--	--	--	--	--	--	--	--	--	--
3/18/2002	--		38.18	10.72	--	27.46	--	--	--	--	--	--	--	--	--	--	--	--
3/11/2003	--		38.18	10.46	--	27.72	--	--	--	--	--	--	--	--	--	--	--	--
03/09/2004	P		38.18	9.79	--	28.39	<50	<0.50	<0.50	<0.50	<0.50	0.50	--	SEQM	7.2	--	--	--
09/17/2004	--		38.18	15.35	--	22.83	--	--	--	--	--	--	--	--	--	--	--	--
03/07/2005	P		38.18	7.94	--	30.24	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.7	--	--	--
09/06/2005	--		40.95	13.06	--	27.89	--	--	--	--	--	--	--	--	--	--	--	--
03/06/2006	P	u	40.95	9.26	--	31.69	<50	<0.50	<0.50	<0.50	<0.50	0.59	--	SEQM	7.2	--	--	--
9/5/2006	--		40.95	12.61	--	28.34	--	--	--	--	--	--	--	--	--	--	--	--
3/5/2007	P		40.95	9.12	--	31.83	<50	<0.50	<0.50	<0.50	0.53	<0.50	6.79	TAMC	7.17	--	--	--
9/7/2007	--		40.95	13.56	--	27.39	--	--	--	--	--	--	--	--	--	--	--	--
3/6/2008	P		40.95	9.80	--	31.15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.14	CEL	6.86	--	--	--
9/3/2008	--		40.95	14.20	--	26.75	--	--	--	--	--	--	--	--	--	--	--	--
3/4/2009	P		40.95	9.51	--	31.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.62	CEL	6.96	--	--	--
9/30/2009	--	x	38.19	14.92	--	23.27	--	--	--	--	--	--	--	--	--	--	--	--
10/28/2009	--		38.19	13.56	--	24.63	--	--	--	--	--	--	--	--	--	--	--	--
3/23/2010	--	f	38.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/10/2010	--		38.19	11.06	--	27.13	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	P		38.19	14.41	--	23.78	<50	<0.50	<0.50	<0.50	<1.0	<0.50	1.14	TAMC	6.68	--	--	--
2/23/2011	--	I, car parked on well	38.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9																		
10/3/1991	--		41.25	14.12	--	27.13	<50	<0.3	0.4	<0.3	<0.3	--	--	SUP	--	--	--	--
10/15/1991	--		41.25	14.27	--	26.98	--	--	--	--	--	--	--	--	--	--	--	--
12/4/1991	--		41.25	13.84	--	27.41	--	--	--	--	--	--	--	--	--	--	--	--
12/16/1991	--		41.25	14.18	--	27.07	--	--	--	--	--	--	--	--	--	--	--	--
1/6/1992	--		41.25	13.42	--	27.83	<50	<0.5	<0.5	<0.5	0.9	--	--	ANA	--	--	--	--
1/22/1992	--		41.25	13.75	--	27.50	--	--	--	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-9 Cont.																		
1/28/1992	--		41.25	14.76	--	26.49	--	--	--	--	--	--	--	--	--	--	--	--
2/5/1992	--		41.25	13.38	--	27.87	--	--	--	--	--	--	--	--	--	--	--	--
2/12/1992	--		41.25	11.86	--	29.39	--	--	--	--	--	--	--	--	--	--	--	--
2/17/1992	--		41.25	10.78	--	30.47	--	--	--	--	--	--	--	--	--	--	--	--
4/3/1992	--		41.25	11.63	--	29.62	--	--	--	--	--	--	--	--	--	--	--	--
4/8/1992	--		41.25	12.25	--	29.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
4/14/1992	--		41.25	12.32	--	28.93	--	--	--	--	--	--	--	--	--	--	--	--
4/29/1992	--		41.25	13.07	--	28.18	--	--	--	--	--	--	--	--	--	--	--	--
5/7/1992	--		41.25	14.43	--	26.82	--	--	--	--	--	--	--	--	--	--	--	--
7/3/1992	--		41.25	13.85	--	27.40	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
10/8/1992	--		41.25	14.89	--	26.36	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
12/31/1992	--		41.25	11.90	--	29.35	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
4/21/1993	--	n	41.25	13.68	--	27.57	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
7/7/1993	--	n	41.25	13.12	--	28.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	PACE	--	--	--	--
9/21/1993	--	n	41.25	14.00	--	27.25	<50	<0.5	<0.5	<0.5	0.9	--	--	PACE	--	--	--	--
12/17/1993	--		41.25	12.98	--	28.27	--	--	--	--	--	--	--	--	--	--	--	--
12/23/1993	--	n	41.25	--	--	--	<50	<0.5	<0.5	<0.5	0.9	<5.0	--	PACE	--	--	--	--
4/7/1994	--	n	41.25	13.24	--	28.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	4.7	PACE	--	--	--	--
7/6/1994	--	n	41.25	13.77	--	27.48	<50	<0.5	<0.5	<0.5	<0.5	--	3.9	PACE	--	--	--	--
10/7/1994	--	n	41.25	14.60	--	26.65	<50	<0.5	<0.5	<0.5	<0.5	<5.0	3.0	PACE	--	--	--	--
1/27/1995	--		41.25	8.47	--	32.78	<50	<0.5	<0.5	<0.5	<1	--	2.5	ATI	--	--	--	--
3/30/1995	--		41.25	8.19	--	33.06	<50	<0.50	<0.50	<0.50	<1.0	--	8.4	ATI	--	--	--	--
6/20/1995	--		41.25	11.25	--	30.00	<50	<0.50	<0.50	<0.50	<1.0	--	8.1	ATI	--	--	--	--
10/3/1995	--		41.25	14.68	--	26.57	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.0	ATI	--	--	--	--
12/6/1995	--		41.25	16.07	--	25.18	<50	<0.50	<0.50	<0.50	<1.0	46	5.4	ATI	--	--	--	--
3/21/1996	--		41.25	9.60	--	31.65	<50	<0.5	<1	<1	<1	<10	8.0	SPL	--	--	--	--
6/21/1996	--		41.25	10.86	--	30.39	<50	<0.5	<1	<1	<1	<10	7.8	SPL	--	--	--	--
9/6/1996	--		41.25	11.52	--	29.73	--	--	--	--	--	--	--	--	--	--	--	--
9/9/1996	--	k	41.25	--	--	--	<50	<0.5	<1.0	<1.0	<1.0	20/21	7.3	SPL	--	--	--	--
12/19/1996	--		41.25	10.43	--	30.82	<50	<0.5	<1.0	<1.0	<1.0	<10	7.3	SPL	--	--	--	--
3/17/1997	--		41.25	9.87	--	31.38	--	--	--	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-9 Cont.																		
8/12/1997	--		41.25	11.44	--	29.81	--	--	--	--	--	--	--	--	--	--	--	--
12/10/1997	--		41.25	10.44	--	30.81	--	--	--	--	--	--	--	--	--	--	--	--
3/12/1998	--		41.25	9.50	--	31.75	--	--	--	--	--	--	--	--	--	--	--	--
6/23/1998	--		41.25	10.06	--	31.19	--	--	--	--	--	--	--	--	--	--	--	--
3/31/1999	--		41.25	9.06	--	32.19	--	--	--	--	--	--	--	--	--	--	--	--
8/25/1999	--		41.25	12.00	--	29.25	--	--	--	--	--	--	--	--	--	--	--	--
3/9/2000	--		41.25	10.57	--	30.68	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2001	--		41.25	9.73	--	31.52	--	--	--	--	--	--	--	--	--	--	--	--
3/8/2002	--		41.25	11.89	--	29.36	--	--	--	--	--	--	--	--	--	--	--	--
3/18/2002	--		41.25	9.68	--	31.57	--	--	--	--	--	--	--	--	--	--	--	--
3/11/2003	--		41.25	9.21	--	32.04	--	--	--	--	--	--	--	--	--	--	--	--
03/09/2004	--		41.25	10.99	--	30.26	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.6	--	--	--
09/17/2004	--		41.25	13.35	--	27.90	--	--	--	--	--	--	--	--	--	--	--	--
03/07/2005	P		41.25	8.94	--	32.31	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.9	--	--	--
09/06/2005	--		44.06	11.99	--	32.07	--	--	--	--	--	--	--	--	--	--	--	--
03/06/2006	P	u	44.06	8.26	--	35.80	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.9	--	--	--
9/5/2006	--		44.06	11.63	--	32.43	--	--	--	--	--	--	--	--	--	--	--	--
3/5/2007	P		44.06	9.33	--	34.73	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.22	TAMC	7.03	--	--	--
9/7/2007	--		44.06	12.28	--	31.78	--	--	--	--	--	--	--	--	--	--	--	--
3/6/2008	P		44.06	10.11	--	33.95	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.72	CEL	6.90	--	--	--
9/3/2008	--		44.06	13.49	--	30.57	--	--	--	--	--	--	--	--	--	--	--	--
3/4/2009	P		44.06	8.15	--	35.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.03	CEL	6.84	--	--	--
9/30/2009	--	x	41.25	12.98	--	28.27	--	--	--	--	--	--	--	--	--	--	--	--
10/28/2009	--		41.25	11.98	--	29.27	--	--	--	--	--	--	--	--	--	--	--	--
3/23/2010	P		41.25	10.59	--	30.66	<50	<0.50	<0.50	<0.50	<1.0	<0.50	0.86	TAMC	6.54	--	--	--
6/10/2010	--		41.25	10.25	--	31.00	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	--	f	41.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/23/2011	--		41.25	9.71	--	31.54	--	--	--	--	--	--	--	--	--	--	--	--
MW-10																		
6/16/2009	--	x	39.78	8.60	0.01	31.19	--	--	--	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
MW-10 Cont.																		
7/22/2009	--		39.78	9.68	0.01	30.11	--	--	--	--	--	--	--	--	--	--	--	--
8/6/2009	--		39.78	9.48	--	30.30	--	--	--	--	--	--	--	--	--	--	--	--
9/30/2009	--		39.78	9.69	0.01	30.10	--	--	--	--	--	--	--	--	--	--	--	--
10/28/2009	P	z	39.78	8.53	--	31.25	62,000	8,300	5,300	3,100	12,000	<50	1.14	CEL	6.9	--	--	--
3/23/2010	P		39.78	7.70	SHEEN	32.08	58,000	6,500	4,800	2,300	9,700	<100	0.71	TAMC	6.69	--	--	--
6/10/2010	--		39.78	8.93	0.01	30.86	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	--		39.78	9.69	0.01	30.10	--	--	--	--	--	--	--	--	--	--	--	--
2/23/2011	P	cc	39.78	7.99	--	31.79	61,000	7,000	5,300	2,800	12,000	<100	0.79	TAMC	6.68	--	--	--
MW-11																		
9/30/2009	P	x	40.04	10.55	--	29.49	30,000	850	1,400	1,000	3,700	27	--	CEL	7.09	--	--	--
10/28/2009	P		40.04	8.00	--	32.04	27,000	1,100	2,300	1,500	5,800	<50	0.82	CEL	6.74	--	--	--
3/23/2010	P		40.04	7.25	--	32.79	19,000	530	830	790	2,200	<25	0.66	TAMC	6.64	--	--	--
6/10/2010	--		40.04	9.65	SHEEN	30.39	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	P	aa	40.04	9.42	--	30.62	5,500	400	250	320	410	11	0.62	TAMC	6.36	--	--	--
2/23/2011	P		40.04	7.60	--	32.44	10,000	380	260	330	540	7.2	0.80	TAMC	6.62	--	--	--
MW-12																		
9/30/2009	--	x	40.32	11.02	0.02	29.32	--	--	--	--	--	--	--	--	--	--	--	--
10/28/2009	P	z	40.32	10.40	--	29.92	43,000	5,800	800	2,900	6,800	<50	0.73	CEL	6.7	--	--	--
3/23/2010	P		40.32	11.46	SHEEN	28.86	39,000	4,800	1,000	3,100	6,400	<25	1.06	TAMC	6.60	--	--	--
6/10/2010	--		40.32	11.35	SHEEN	28.97	--	--	--	--	--	--	--	--	--	--	--	--
9/16/2010	--		40.32	11.54	0.02	28.80	--	--	--	--	--	--	--	--	--	--	--	--
2/23/2011	--	bb	40.32	10.80	0.10	29.60	--	--	--	--	--	--	--	--	--	--	--	--
QC-2																		
10/8/1992	--	l	41.25	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
12/31/1992	--	l	41.25	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	ANA	--	--	--	--
4/21/1993	--	l, n	41.25	--	--	--	--	--	--	--	--	--	--	PACE	--	--	--	--
7/7/1993	--	l, n	41.25	--	--	--	<50	<0.5	<0.5	<0.5	0.6	--	--	PACE	--	--	--	--
9/21/1993	--	l, n	41.25	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--
12/23/1993	--	l	41.25	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	PACE	--	--	--	--

**Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Former BP Station #11109, 4280 Foothill Blvd., Oakland, CA**

Well and Sample Date	P/NP	Footnote	TOC Elevation (feet)	DTW (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	DRO/TPHd (µg/L)	TOG (µg/L)	HVOC (µg/L)
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE						
QC-2 Cont.																		
4/7/1994	--	1	41.25	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	--	--	--
7/6/1994	--	1	41.25	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	--	--	--
10/7/1994	--	1	41.25	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	PACE	--	--	--	--
1/27/1995	--	1	41.25	--	--	--	<50	<0.5	0.5	<0.5	<1	<1	--	ATI	--	--	--	--
3/30/1995	--	1	41.25	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<1.0	--	ATI	--	--	--	--
6/20/1995	--	1	41.25	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<1.0	--	ATI	--	--	--	--
10/3/1995	--	1	41.25	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	--	--
12/6/1995	--	1	41.25	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	ATI	--	--	--	--
3/21/1996	--	1	41.25	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	--	--	--
6/21/1996	--	1	41.25	--	--	--	<50	<0.5	<1	<1	<1	<10	--	SPL	--	--	--	--

ABBREVIATIONS & SYMBOLS:

--/-- = 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.

Note: 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 and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
1/31/1990	--	--	--	--	--	--	--	--	
2/5/1990	--	--	--	--	--	--	--	--	
MW-2									
2/5/1990	--	--	--	--	--	--	--	--	
2/14/1991	--	--	--	--	--	--	--	--	
5/13/1991	--	--	--	--	--	--	--	--	
7/24/1991	--	--	--	--	--	--	--	--	
10/3/1991	--	--	--	--	--	--	--	--	
10/15/1991	--	--	--	--	--	--	--	--	
12/4/1991	--	--	--	--	--	--	--	--	
12/16/1991	--	--	--	--	--	--	--	--	
1/6/1992	--	--	--	--	--	--	--	--	
1/22/1992	--	--	--	--	--	--	--	--	
1/28/1992	--	--	--	--	--	--	--	--	
2/5/1992	--	--	--	--	--	--	--	--	
2/12/1992	--	--	--	--	--	--	--	--	
2/17/1992	--	--	--	--	--	--	--	--	
4/3/1992	--	--	--	--	--	--	--	--	
4/8/1992	--	--	--	--	--	--	--	--	
4/14/1992	--	--	--	--	--	--	--	--	
4/29/1992	--	--	--	--	--	--	--	--	
5/7/1992	--	--	--	--	--	--	--	--	
7/3/1992	--	--	--	--	--	--	--	--	
10/8/1992	--	--	--	--	--	--	--	--	
12/31/1992	--	--	--	--	--	--	--	--	
4/21/1993	--	--	--	--	--	--	--	--	
7/7/1993	--	--	--	--	--	--	--	--	
9/21/1993	--	--	21.54	--	--	--	--	--	
12/17/1993	--	--	--	--	--	--	--	--	
12/23/1993	--	--	--	--	--	--	--	--	
4/7/1994	--	--	12.2	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2 Cont.									
7/6/1994	--	--	--	--	--	--	--	--	
10/7/1994	--	--	15.2	--	--	--	--	--	
1/27/1995	--	--	--	--	--	--	--	--	
3/30/1995	--	--	--	--	--	--	--	--	
6/20/1995	--	--	--	--	--	--	--	--	
10/3/1995	--	--	<5.0	--	--	--	--	--	
12/6/1995	--	--	46	--	--	--	--	--	
3/21/1996	--	--	<1.0	--	--	--	--	--	
6/21/1996	--	--	<10	--	--	--	--	--	
9/6/1996	--	--	--	--	--	--	--	--	
9/9/1996	--	--	<10	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
3/17/1997	--	--	--	--	--	--	--	--	
8/12/1997	--	--	--	--	--	--	--	--	
12/10/1997	--	--	--	--	--	--	--	--	
3/12/1998	--	--	--	--	--	--	--	--	
6/23/1998	--	--	--	--	--	--	--	--	
3/31/1999	--	--	--	--	--	--	--	--	
8/25/1999	--	--	--	--	--	--	--	--	
3/9/2000	--	--	--	--	--	--	--	--	
3/8/2001	--	--	--	--	--	--	--	--	
3/8/2002	--	--	--	--	--	--	--	--	
3/18/2002	--	--	--	--	--	--	--	--	
3/11/2003	--	--	--	--	--	--	--	--	
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	
03/07/2005	--	--	--	--	--	--	--	--	
09/06/2005	--	--	--	--	--	--	--	--	
03/06/2006	--	--	--	--	--	--	--	--	
9/5/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/5/2007	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2 Cont.									
9/7/2007	--	--	--	--	--	--	--	--	
3/6/2008	--	--	--	--	--	--	--	--	
9/3/2008	--	--	--	--	--	--	--	--	
3/4/2009	--	--	--	--	--	--	--	--	
9/30/2009	--	--	--	--	--	--	--	--	
10/28/2009	--	--	--	--	--	--	--	--	
3/23/2010	--	--	--	--	--	--	--	--	
6/10/2010	--	--	--	--	--	--	--	--	
9/16/2010	--	--	--	--	--	--	--	--	
2/23/2011	--	--	--	--	--	--	--	--	
MW-3									
2/5/1990	--	--	--	--	--	--	--	--	
2/14/1991	--	--	--	--	--	--	--	--	
5/13/1991	--	--	--	--	--	--	--	--	
7/24/1991	--	--	--	--	--	--	--	--	
10/3/1991	--	--	--	--	--	--	--	--	
10/15/1991	--	--	--	--	--	--	--	--	
12/4/1991	--	--	--	--	--	--	--	--	
12/16/1991	--	--	--	--	--	--	--	--	
1/6/1992	--	--	--	--	--	--	--	--	
1/22/1992	--	--	--	--	--	--	--	--	
1/28/1992	--	--	--	--	--	--	--	--	
2/5/1992	--	--	--	--	--	--	--	--	
2/12/1992	--	--	--	--	--	--	--	--	
2/17/1992	--	--	--	--	--	--	--	--	
4/3/1992	--	--	--	--	--	--	--	--	
4/8/1992	--	--	--	--	--	--	--	--	
4/14/1992	--	--	--	--	--	--	--	--	
4/29/1992	--	--	--	--	--	--	--	--	
5/7/1992	--	--	--	--	--	--	--	--	
7/3/1992	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-3 Cont.									
10/8/1992	--	--	--	--	--	--	--	--	
12/31/1992	--	--	--	--	--	--	--	--	
12/31/1992	--	--	--	--	--	--	--	--	
4/21/1993	--	--	--	--	--	--	--	--	
4/21/1993	--	--	--	--	--	--	--	--	
7/7/1993	--	--	12.68	--	--	--	--	--	
9/21/1993	--	--	--	--	--	--	--	--	
12/17/1993	--	--	--	--	--	--	--	--	
12/23/1993	--	--	--	--	--	--	--	--	
12/23/1993	--	--	--	--	--	--	--	--	
4/7/1994	--	--	--	--	--	--	--	--	
4/7/1994	--	--	18.2	--	--	--	--	--	
7/6/1994	--	--	5.54	--	--	--	--	--	
10/7/1994	--	--	31.4	--	--	--	--	--	
1/27/1995	--	--	--	--	--	--	--	--	
3/30/1995	--	--	--	--	--	--	--	--	
6/20/1995	--	--	--	--	--	--	--	--	
10/3/1995	--	--	6.7	--	--	--	--	--	
12/6/1995	--	--	53	--	--	--	--	--	
12/6/1995	--	--	64	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
6/21/1996	--	--	12	--	--	--	--	--	
9/6/1996	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	
3/31/1999	--	--	6.2	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-3 Cont.									
8/25/1999	--	--	7.7	--	--	--	--	--	
3/9/2000	--	--	6.3	--	--	--	--	--	
3/8/2001	--	--	7.7	--	--	--	--	--	
3/8/2002	--	--	11.6	--	--	--	--	--	
3/18/2002	--	--	--	--	--	--	--	--	
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	
09/17/2004	--	--	--	--	--	--	--	--	
03/07/2005	<100	<20	5.1	<0.50	<0.50	<0.50	<0.50	<0.50	
09/06/2005	--	--	--	--	--	--	--	--	
03/06/2006	<300	<20	6.9	<0.50	<0.50	<0.50	<0.50	<0.50	
9/5/2006	--	--	--	--	--	--	--	--	
3/5/2007	<300	<20	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	
9/7/2007	--	--	--	--	--	--	--	--	
3/6/2008	<300	<10	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	
9/3/2008	--	--	--	--	--	--	--	--	
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	
10/28/2009	--	--	--	--	--	--	--	--	
3/23/2010	<100	<4.0	3.2	<0.50	<0.50	<0.50	<0.50	<0.50	
6/10/2010	--	--	--	--	--	--	--	--	
9/16/2010	<100	<4.0	5.9	<0.50	<0.50	<0.50	<0.50	<0.50	
2/23/2011	--	--	0.58	--	--	--	--	--	
MW-4									
2/5/1990	--	--	--	--	--	--	--	--	
2/14/1991	--	--	--	--	--	--	--	--	
5/13/1991	--	--	--	--	--	--	--	--	
7/24/1991	--	--	--	--	--	--	--	--	
10/3/1991	--	--	--	--	--	--	--	--	
10/15/1991	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
12/4/1991	--	--	--	--	--	--	--	--	
12/16/1991	--	--	--	--	--	--	--	--	
1/6/1992	--	--	--	--	--	--	--	--	
1/22/1992	--	--	--	--	--	--	--	--	
1/28/1992	--	--	--	--	--	--	--	--	
2/5/1992	--	--	--	--	--	--	--	--	
2/12/1992	--	--	--	--	--	--	--	--	
2/17/1992	--	--	--	--	--	--	--	--	
4/3/1992	--	--	--	--	--	--	--	--	
4/8/1992	--	--	--	--	--	--	--	--	
4/14/1992	--	--	--	--	--	--	--	--	
4/29/1992	--	--	--	--	--	--	--	--	
5/7/1992	--	--	--	--	--	--	--	--	
7/3/1992	--	--	--	--	--	--	--	--	
10/8/1992	--	--	--	--	--	--	--	--	
12/31/1992	--	--	--	--	--	--	--	--	
4/21/1993	--	--	--	--	--	--	--	--	
7/7/1993	--	--	5.51	--	--	--	--	--	
9/21/1993	--	--	--	--	--	--	--	--	
12/17/1993	--	--	--	--	--	--	--	--	
12/23/1993	--	--	5.7	--	--	--	--	--	
4/7/1994	--	--	11.7	--	--	--	--	--	
7/6/1994	--	--	--	--	--	--	--	--	
10/7/1994	--	--	7.38	--	--	--	--	--	
1/27/1995	--	--	--	--	--	--	--	--	
3/30/1995	--	--	--	--	--	--	--	--	
6/20/1995	--	--	--	--	--	--	--	--	
10/3/1995	--	--	5	--	--	--	--	--	
12/6/1995	--	--	47	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
6/21/1996	--	--	<10	--	--	--	--	--	
9/6/1996	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
9/9/1996	--	--	<10	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
3/17/1997	--	--	--	--	--	--	--	--	
8/12/1997	--	--	--	--	--	--	--	--	
12/10/1997	--	--	--	--	--	--	--	--	
3/12/1998	--	--	--	--	--	--	--	--	
6/23/1998	--	--	--	--	--	--	--	--	
3/31/1999	--	--	--	--	--	--	--	--	
8/25/1999	--	--	--	--	--	--	--	--	
3/9/2000	--	--	--	--	--	--	--	--	
3/8/2001	--	--	--	--	--	--	--	--	
3/8/2002	--	--	--	--	--	--	--	--	
3/18/2002	--	--	--	--	--	--	--	--	
3/11/2003	--	--	--	--	--	--	--	--	
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	
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	
10/28/2009	--	--	--	--	--	--	--	--	
3/23/2010	<100	18	84	<0.50	<0.50	0.88	<0.50	<0.50	
6/10/2010	--	--	--	--	--	--	--	--	
9/16/2010	<100	8.0	72	<0.50	<0.50	0.82	<0.50	<0.50	
2/23/2011	--	--	55	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5									
10/3/1991	--	--	--	--	--	--	--	--	
10/15/1991	--	--	--	--	--	--	--	--	
12/4/1991	--	--	--	--	--	--	--	--	
12/16/1991	--	--	--	--	--	--	--	--	
1/6/1992	--	--	--	--	--	--	--	--	
1/22/1992	--	--	--	--	--	--	--	--	
1/28/1992	--	--	--	--	--	--	--	--	
2/5/1992	--	--	--	--	--	--	--	--	
2/12/1992	--	--	--	--	--	--	--	--	
2/17/1992	--	--	--	--	--	--	--	--	
4/3/1992	--	--	--	--	--	--	--	--	
4/8/1992	--	--	--	--	--	--	--	--	
4/14/1992	--	--	--	--	--	--	--	--	
4/29/1992	--	--	--	--	--	--	--	--	
5/7/1992	--	--	--	--	--	--	--	--	
7/3/1992	--	--	--	--	--	--	--	--	
9/1/1992	--	--	--	--	--	--	--	--	
10/8/1992	--	--	--	--	--	--	--	--	
12/31/1992	--	--	--	--	--	--	--	--	
4/21/1993	--	--	--	--	--	--	--	--	
7/7/1993	--	--	--	--	--	--	--	--	
9/21/1993	--	--	--	--	--	--	--	--	
12/17/1993	--	--	--	--	--	--	--	--	
4/7/1994	--	--	2,002	--	--	--	--	--	
7/6/1994	--	--	1,141	--	--	--	--	--	
10/7/1994	--	--	--	--	--	--	--	--	
10/7/1994	--	--	37.7	--	--	--	--	--	
1/27/1995	--	--	--	--	--	--	--	--	
3/30/1995	--	--	--	--	--	--	--	--	
3/30/1995	--	--	--	--	--	--	--	--	
6/20/1995	--	--	--	--	--	--	--	--	
6/20/1995	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5 Cont.									
10/3/1995	--	--	320	--	--	--	--	--	
10/3/1995	--	--	330	--	--	--	--	--	
12/6/1995	--	--	600	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
6/21/1996	--	--	<50	--	--	--	--	--	
6/21/1996	--	--	<100	--	--	--	--	--	
9/6/1996	--	--	--	--	--	--	--	--	
9/9/1996	--	--	<2500	--	--	--	--	--	
9/9/1996	--	--	<2500	--	--	--	--	--	
12/19/1996	--	--	<500	--	--	--	--	--	
12/19/1996	--	--	<500	--	--	--	--	--	
3/17/1997	--	--	29	--	--	--	--	--	
3/17/1997	--	--	28	--	--	--	--	--	
8/12/1997	--	--	<500	--	--	--	--	--	
8/12/1997	--	--	<1000	--	--	--	--	--	
12/10/1997	--	--	--	--	--	--	--	--	
12/10/1997	--	--	500	--	--	--	--	--	
3/12/1998	--	--	<250	--	--	--	--	--	
6/23/1998	--	--	<500	--	--	--	--	--	
6/23/1998	--	--	<250	--	--	--	--	--	
3/31/1999	--	--	--	--	--	--	--	--	
8/25/1999	--	--	26	--	--	--	--	--	
3/9/2000	--	--	<5.0	--	--	--	--	--	
3/8/2001	--	--	--	--	--	--	--	--	
3/8/2002	--	--	34.3	--	--	--	--	--	
3/18/2002	--	--	--	--	--	--	--	--	
3/11/2003	--	--	--	--	--	--	--	--	
12/09/2003	--	--	--	--	--	--	--	--	
03/09/2004	<10,000	<2,000	<50	<50	<50	<50	96	<50	
09/17/2004	--	--	--	--	--	--	--	--	
03/07/2005	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5 Cont.									
09/06/2005	--	--	--	--	--	--	--	--	
03/06/2006	<30,000	<2,000	<50	60	<50	<50	<50	<50	
9/5/2006	--	--	--	--	--	--	--	--	
3/5/2007	<30,000	<2,000	<50	57	<50	<50	<50	<50	
9/7/2007	--	--	--	--	--	--	--	--	
1/14/2008	--	--	--	--	--	--	--	--	
2/27/2008	--	--	--	--	--	--	--	--	
3/6/2008	--	--	--	--	--	--	--	--	
9/3/2008	--	--	--	--	--	--	--	--	
3/4/2009	--	--	--	--	--	--	--	--	
4/8/2009	--	--	--	--	--	--	--	--	
5/11/2009	--	--	--	--	--	--	--	--	
6/16/2009	--	--	--	--	--	--	--	--	
7/22/2009	--	--	--	--	--	--	--	--	
8/6/2009	--	--	--	--	--	--	--	--	
9/30/2009	--	--	--	--	--	--	--	--	
10/28/2009	--	--	--	--	--	--	--	--	
3/23/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
6/10/2010	--	--	--	--	--	--	--	--	
9/16/2010	--	--	--	--	--	--	--	--	
2/23/2011	--	--	--	--	--	--	--	--	
MW-6									
10/3/1991	--	--	--	--	--	--	--	--	
10/15/1991	--	--	--	--	--	--	--	--	
12/4/1991	--	--	--	--	--	--	--	--	
12/16/1991	--	--	--	--	--	--	--	--	
1/6/1992	--	--	--	--	--	--	--	--	
1/22/1992	--	--	--	--	--	--	--	--	
1/28/1992	--	--	--	--	--	--	--	--	
2/5/1992	--	--	--	--	--	--	--	--	
2/12/1992	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-6 Cont.									
2/17/1992	--	--	--	--	--	--	--	--	
4/3/1992	--	--	--	--	--	--	--	--	
4/8/1992	--	--	--	--	--	--	--	--	
4/14/1992	--	--	--	--	--	--	--	--	
4/29/1992	--	--	--	--	--	--	--	--	
5/7/1992	--	--	--	--	--	--	--	--	
7/3/1992	--	--	--	--	--	--	--	--	
10/8/1992	--	--	--	--	--	--	--	--	
10/8/1992	--	--	--	--	--	--	--	--	
12/31/1992	--	--	--	--	--	--	--	--	
4/21/1993	--	--	--	--	--	--	--	--	
7/7/1993	--	--	28.96	--	--	--	--	--	
9/21/1993	--	--	--	--	--	--	--	--	
12/17/1993	--	--	--	--	--	--	--	--	
12/23/1993	--	--	13.95	--	--	--	--	--	
4/7/1994	--	--	35.1	--	--	--	--	--	
7/6/1994	--	--	--	--	--	--	--	--	
7/6/1994	--	--	--	--	--	--	--	--	
10/7/1994	--	--	24.3	--	--	--	--	--	
1/27/1995	--	--	--	--	--	--	--	--	
3/30/1995	--	--	--	--	--	--	--	--	
6/20/1995	--	--	--	--	--	--	--	--	
10/3/1995	--	--	66	--	--	--	--	--	
12/6/1995	--	--	45	--	--	--	--	--	
3/21/1996	--	--	41	--	--	--	--	--	
6/21/1996	--	--	<10	--	--	--	--	--	
9/6/1996	--	--	--	--	--	--	--	--	
9/9/1996	--	--	22/22	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
3/17/1997	--	--	--	--	--	--	--	--	
8/12/1997	--	--	--	--	--	--	--	--	
12/10/1997	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-6 Cont.									
3/12/1998	--	--	--	--	--	--	--	--	
6/23/1998	--	--	--	--	--	--	--	--	
3/31/1999	--	--	--	--	--	--	--	--	
8/25/1999	--	--	--	--	--	--	--	--	
3/9/2000	--	--	--	--	--	--	--	--	
3/8/2001	--	--	--	--	--	--	--	--	
3/8/2002	--	--	--	--	--	--	--	--	
3/18/2002	--	--	--	--	--	--	--	--	
3/11/2003	--	--	--	--	--	--	--	--	
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	
09/17/2004	--	--	--	--	--	--	--	--	
03/07/2005	<100	<20	5.8	<0.50	<0.50	<0.50	<0.50	<0.50	
09/06/2005	--	--	--	--	--	--	--	--	
03/06/2006	<300	<20	8.1	<0.50	<0.50	<0.50	<0.50	<0.50	
9/5/2006	--	--	--	--	--	--	--	--	
3/5/2007	<300	<20	5.6	<0.50	<0.50	<0.50	<0.50	<0.50	
9/7/2007	--	--	--	--	--	--	--	--	
3/6/2008	<300	<10	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	
9/3/2008	--	--	--	--	--	--	--	--	
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	
10/28/2009	--	--	--	--	--	--	--	--	
3/23/2010	<100	<4.0	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	
6/10/2010	--	--	--	--	--	--	--	--	
9/16/2010	<100	<4.0	0.80	<0.50	<0.50	<0.50	<0.50	<0.50	
2/23/2011	--	--	<0.50	--	--	--	--	--	
MW-7									
10/3/1991	--	--	--	--	--	--	--	--	
10/15/1991	--	--	--	--	--	--	--	--	
12/4/1991	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7 Cont.									
12/16/1991	--	--	--	--	--	--	--	--	
1/6/1992	--	--	--	--	--	--	--	--	
1/22/1992	--	--	--	--	--	--	--	--	
1/28/1992	--	--	--	--	--	--	--	--	
2/5/1992	--	--	--	--	--	--	--	--	
2/12/1992	--	--	--	--	--	--	--	--	
2/17/1992	--	--	--	--	--	--	--	--	
4/3/1992	--	--	--	--	--	--	--	--	
4/8/1992	--	--	--	--	--	--	--	--	
4/14/1992	--	--	--	--	--	--	--	--	
4/29/1992	--	--	--	--	--	--	--	--	
5/7/1992	--	--	--	--	--	--	--	--	
7/3/1992	--	--	--	--	--	--	--	--	
10/8/1992	--	--	--	--	--	--	--	--	
12/31/1992	--	--	--	--	--	--	--	--	
4/21/1993	--	--	--	--	--	--	--	--	
7/7/1993	--	--	10.84	--	--	--	--	--	
7/7/1993	--	--	9.84	--	--	--	--	--	
9/21/1993	--	--	--	--	--	--	--	--	
9/21/1993	--	--	--	--	--	--	--	--	
12/17/1993	--	--	--	--	--	--	--	--	
12/23/1993	--	--	7.81	--	--	--	--	--	
4/7/1994	--	--	6.32	--	--	--	--	--	
7/6/1994	--	--	<5.0	--	--	--	--	--	
10/7/1994	--	--	<5.0	--	--	--	--	--	
1/27/1995	--	--	--	--	--	--	--	--	
1/27/1995	--	--	--	--	--	--	--	--	
3/30/1995	--	--	--	--	--	--	--	--	
6/20/1995	--	--	--	--	--	--	--	--	
10/3/1995	--	--	<5.0	--	--	--	--	--	
12/6/1995	--	--	<5.0	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7 Cont.									
6/21/1996	--	--	<50	--	--	--	--	--	
9/6/1996	--	--	--	--	--	--	--	--	
9/9/1996	--	--	<50	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
3/17/1997	--	--	--	--	--	--	--	--	
8/12/1997	--	--	--	--	--	--	--	--	
12/10/1997	--	--	--	--	--	--	--	--	
3/12/1998	--	--	--	--	--	--	--	--	
6/23/1998	--	--	--	--	--	--	--	--	
3/31/1999	--	--	--	--	--	--	--	--	
8/25/1999	--	--	--	--	--	--	--	--	
3/9/2000	--	--	--	--	--	--	--	--	
3/8/2001	--	--	--	--	--	--	--	--	
3/8/2002	--	--	--	--	--	--	--	--	
3/18/2002	--	--	--	--	--	--	--	--	
3/11/2003	--	--	--	--	--	--	--	--	
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	
9/30/2009	<300	<10	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	
10/28/2009	--	--	--	--	--	--	--	--	
3/23/2010	<100	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/10/2010	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7 Cont.									
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	
MW-8									
10/3/1991	--	--	--	--	--	--	--	--	
10/15/1991	--	--	--	--	--	--	--	--	
12/4/1991	--	--	--	--	--	--	--	--	
12/16/1991	--	--	--	--	--	--	--	--	
1/6/1992	--	--	--	--	--	--	--	--	
1/22/1992	--	--	--	--	--	--	--	--	
1/28/1992	--	--	--	--	--	--	--	--	
2/5/1992	--	--	--	--	--	--	--	--	
2/12/1992	--	--	--	--	--	--	--	--	
2/17/1992	--	--	--	--	--	--	--	--	
4/3/1992	--	--	--	--	--	--	--	--	
4/8/1992	--	--	--	--	--	--	--	--	
4/14/1992	--	--	--	--	--	--	--	--	
4/29/1992	--	--	--	--	--	--	--	--	
5/7/1992	--	--	--	--	--	--	--	--	
7/3/1992	--	--	--	--	--	--	--	--	
10/8/1992	--	--	--	--	--	--	--	--	
12/31/1992	--	--	--	--	--	--	--	--	
4/21/1993	--	--	--	--	--	--	--	--	
7/7/1993	--	--	<5.0	--	--	--	--	--	
9/21/1993	--	--	--	--	--	--	--	--	
12/17/1993	--	--	--	--	--	--	--	--	
12/23/1993	--	--	<5.0	--	--	--	--	--	
4/7/1994	--	--	<5.0	--	--	--	--	--	
7/6/1994	--	--	<5.0	--	--	--	--	--	
10/7/1994	--	--	<5.0	--	--	--	--	--	
1/27/1995	--	--	--	--	--	--	--	--	
3/30/1995	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-8 Cont.									
6/20/1995	--	--	--	--	--	--	--	--	
10/3/1995	--	--	--	--	--	--	--	--	
12/6/1995	--	--	47	--	--	--	--	--	
3/21/1996	--	--	--	--	--	--	--	--	
6/21/1996	--	--	<10	--	--	--	--	--	
9/6/1996	--	--	--	--	--	--	--	--	
9/9/1996	--	--	<10	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
3/17/1997	--	--	--	--	--	--	--	--	
8/12/1997	--	--	--	--	--	--	--	--	
12/10/1997	--	--	--	--	--	--	--	--	
3/12/1998	--	--	--	--	--	--	--	--	
6/23/1998	--	--	--	--	--	--	--	--	
3/31/1999	--	--	--	--	--	--	--	--	
8/25/1999	--	--	--	--	--	--	--	--	
3/9/2000	--	--	--	--	--	--	--	--	
3/8/2001	--	--	--	--	--	--	--	--	
3/8/2002	--	--	--	--	--	--	--	--	
3/18/2002	--	--	--	--	--	--	--	--	
3/11/2003	--	--	--	--	--	--	--	--	
03/09/2004	<100	<20	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/17/2004	--	--	--	--	--	--	--	--	
03/07/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/06/2005	--	--	--	--	--	--	--	--	
03/06/2006	<300	<20	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	
9/5/2006	--	--	--	--	--	--	--	--	
3/5/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/7/2007	--	--	--	--	--	--	--	--	
3/6/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/3/2008	--	--	--	--	--	--	--	--	
3/4/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/30/2009	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-8 Cont.									
10/28/2009	--	--	--	--	--	--	--	--	
3/23/2010	--	--	--	--	--	--	--	--	
6/10/2010	--	--	--	--	--	--	--	--	
9/16/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/23/2011	--	--	--	--	--	--	--	--	
MW-9									
10/3/1991	--	--	--	--	--	--	--	--	
10/15/1991	--	--	--	--	--	--	--	--	
12/4/1991	--	--	--	--	--	--	--	--	
12/16/1991	--	--	--	--	--	--	--	--	
1/6/1992	--	--	--	--	--	--	--	--	
1/22/1992	--	--	--	--	--	--	--	--	
1/28/1992	--	--	--	--	--	--	--	--	
2/5/1992	--	--	--	--	--	--	--	--	
2/12/1992	--	--	--	--	--	--	--	--	
2/17/1992	--	--	--	--	--	--	--	--	
4/3/1992	--	--	--	--	--	--	--	--	
4/8/1992	--	--	--	--	--	--	--	--	
4/14/1992	--	--	--	--	--	--	--	--	
4/29/1992	--	--	--	--	--	--	--	--	
5/7/1992	--	--	--	--	--	--	--	--	
7/3/1992	--	--	--	--	--	--	--	--	
10/8/1992	--	--	--	--	--	--	--	--	
12/31/1992	--	--	--	--	--	--	--	--	
4/21/1993	--	--	--	--	--	--	--	--	
7/7/1993	--	--	<5.0	--	--	--	--	--	
9/21/1993	--	--	--	--	--	--	--	--	
12/17/1993	--	--	--	--	--	--	--	--	
12/23/1993	--	--	<5.0	--	--	--	--	--	
4/7/1994	--	--	<5.0	--	--	--	--	--	
7/6/1994	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
10/7/1994	--	--	<5.0	--	--	--	--	--	
1/27/1995	--	--	--	--	--	--	--	--	
3/30/1995	--	--	--	--	--	--	--	--	
6/20/1995	--	--	--	--	--	--	--	--	
10/3/1995	--	--	<5.0	--	--	--	--	--	
12/6/1995	--	--	46	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
6/21/1996	--	--	<10	--	--	--	--	--	
9/6/1996	--	--	--	--	--	--	--	--	
9/9/1996	--	--	20/21	--	--	--	--	--	
12/19/1996	--	--	<10	--	--	--	--	--	
3/17/1997	--	--	--	--	--	--	--	--	
8/12/1997	--	--	--	--	--	--	--	--	
12/10/1997	--	--	--	--	--	--	--	--	
3/12/1998	--	--	--	--	--	--	--	--	
6/23/1998	--	--	--	--	--	--	--	--	
3/31/1999	--	--	--	--	--	--	--	--	
8/25/1999	--	--	--	--	--	--	--	--	
3/9/2000	--	--	--	--	--	--	--	--	
3/8/2001	--	--	--	--	--	--	--	--	
3/8/2002	--	--	--	--	--	--	--	--	
3/18/2002	--	--	--	--	--	--	--	--	
3/11/2003	--	--	--	--	--	--	--	--	
03/09/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/17/2004	--	--	--	--	--	--	--	--	
03/07/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/06/2005	--	--	--	--	--	--	--	--	
03/06/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/5/2006	--	--	--	--	--	--	--	--	
3/5/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/7/2007	--	--	--	--	--	--	--	--	
3/6/2008	<300	<10	<0.50	<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 and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
9/3/2008	--	--	--	--	--	--	--	--	
3/4/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
9/30/2009	--	--	--	--	--	--	--	--	
10/28/2009	--	--	--	--	--	--	--	--	
3/23/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/10/2010	--	--	--	--	--	--	--	--	
9/16/2010	--	--	--	--	--	--	--	--	
2/23/2011	--	--	--	--	--	--	--	--	
MW-10									
6/16/2009	--	--	--	--	--	--	--	--	
7/22/2009	--	--	--	--	--	--	--	--	
8/6/2009	--	--	--	--	--	--	--	--	
9/30/2009	--	--	--	--	--	--	--	--	
10/28/2009	<10,000	<400	<50	<50	<50	<50	<50	<50	
3/23/2010	<20,000	<800	<100	<100	<100	<100	<100	<100	
6/10/2010	--	--	--	--	--	--	--	--	
9/16/2010	--	--	--	--	--	--	--	--	
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	
6/10/2010	--	--	--	--	--	--	--	--	
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	
MW-12									
9/30/2009	--	--	--	--	--	--	--	--	
10/28/2009	<10,000	<400	<50	<50	<50	<50	<50	<50	
3/23/2010	<5,000	<200	<25	<25	<25	<25	<25	<25	
6/10/2010	--	--	--	--	--	--	--	--	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-12 Cont.									
9/16/2010	--	--	--	--	--	--	--	--	
2/23/2011	--	--	--	--	--	--	--	--	
QC-2									
10/8/1992	--	--	--	--	--	--	--	--	
12/31/1992	--	--	--	--	--	--	--	--	
4/21/1993	--	--	--	--	--	--	--	--	
7/7/1993	--	--	--	--	--	--	--	--	
9/21/1993	--	--	--	--	--	--	--	--	
12/23/1993	--	--	--	--	--	--	--	--	
4/7/1994	--	--	--	--	--	--	--	--	
7/6/1994	--	--	--	--	--	--	--	--	
10/7/1994	--	--	--	--	--	--	--	--	
1/27/1995	--	--	--	--	--	--	--	--	
3/30/1995	--	--	--	--	--	--	--	--	
6/20/1995	--	--	--	--	--	--	--	--	
10/3/1995	--	--	<5.0	--	--	--	--	--	
12/6/1995	--	--	<5.0	--	--	--	--	--	
3/21/1996	--	--	<10	--	--	--	--	--	
6/21/1996	--	--	<10	--	--	--	--	--	

ABBREVIATIONS AND SYMBOLS:

TBA = tert-Butyl alcohol

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl 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.

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

**Table 3. Historical Groundwater Flow Direction and Gradient
Former BP Station #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

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-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-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
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

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	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-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
Free Product Removed this Quarter:					1.0*
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

DATE: 1/31/11
PERSONNEL: _____
WEATHER: _____

PROJECT NO.: 11109
COMMENTS: _____

Equip:	Geosquirt	Tubing	Bailers	DO	wli	Ec/pH
--------	-----------	--------	---------	----	-----	-------

Well ID	Time	MEASURING POINT	DTW (FT)	PRODUCT THICKNESS	pH	Cond. (X100)	Temp. (C/F)	DO (mg/l)	Redox (mV)	Iron (mg/l)	Alk. (mg/l)	WELL HEAD CONDITION: VAULT, BOLTS, CAP, LOCK, ETC
MV-5		TOC	9.31	0.01								Bailed 3.5g
MV-10			9.05	—								
MV-11			9.07	—								
MV-12			11.45	0.01								Bailed 5.6g

FIELD DATA REPORT

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

DATE: 2/23/11
PERSONNEL: _____
WEATHER: _____

PROJECT NO.: 11109

COMMENTS: _____

Well ID	Time	MEASURING POINT	DTW (FT)	PRODUCT THICKNESS	COMMENTS:								
					pH	Cond. (X100)	Temp. (C/F)	DO (mg/l)	Redox (mV)	Iron (mg/l)	Alk. (mg/l)	WELL HEAD CONDITION: VAULT, BOLTS, CAP, LOCK, ETC	
MW-2	1102	TC	Dry										
MW-3	1202		8.71										
MW-4	1042		11.43	-									
MW-5	0916		8.33	0.01									
MW-6	1139		12.34										
MW-7	1108		9.62	-									Car problem on well
MW-8													
MW-9	1133		9.71										
MW-10	0923		7.99	-									
MW-11	0956		7.60	-									
MW-12	1038		10.80	0.10									Not Baled - On site drum is full



Groundwater Sampling Data Sheet

Well I.D.: MW-3
 Project Name/Location: 11109 Project #: 0988 CUC
 Sampler's Name: EA Date: 2/23/11
 Purging Equipment: BuZ
 Sampling Equipment: BuZ

Casing Type: PVC
 Casing Diameter: 4 inch
 Total Well Depth: _____ feet
 Depth to Water: - 8.71 feet
 Water Column Thickness: = _____ feet
 Unit Casing Volume*: x _____ gallon / foot
 Casing Water Volume: = _____ gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = _____ gallons

***UNIT CASING VOLUMES**

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

Free product measurement (if present): _____

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
<u>1</u>	<u>1205</u>	<u>2.76</u>	<u>67</u>		<u>685</u>	<u>69.76</u>	<u>6.70</u>	
<u>2.5</u>	<u>1208</u>	X	X	X	<u>688</u>	<u>69.03</u>	<u>6.78</u>	
<u>3</u>	<u>1212</u>	X	X	X	<u>686</u>	<u>69.13</u>	<u>6.83</u>	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 gallons
 Depth to Water at Sample Collection: _____ feet
 Sample Collection Time: 1215

Purged Dry? (Y/N) Y

Comments:

Groundwater Sampling Data Sheet

Well I.D.: MW-C
 Project Name/Location: 11109 Project #: 09-88-040
 Sampler's Name: GP Date: 2/23/11
 Purging Equipment: Bur
 Sampling Equipment: Bur

Casing Type: PVC
 Casing Diameter: _____ inch
 Total Well Depth: _____ feet
 Depth to Water: 12.34 feet
 Water Column Thickness: = _____ feet
 Unit Casing Volume*: x _____ gallon / foot
 Casing Water Volume: = _____ gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = _____ gallons

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

Free product measurement (if present): _____

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
<u>0</u>	<u>1143</u>	<u>1.60</u>	<u>-2</u>		<u>588</u>	<u>65.04</u>	<u>6.42</u>	
<u>2.5</u>	<u>1147</u>	X	X	X	<u>578</u>	<u>65.26</u>	<u>6.42</u>	
<u>5</u>	<u>1151</u>	X	X	X	<u>582</u>	<u>65.32</u>	<u>6.40</u>	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 gallons
 Depth to Water at Sample Collection: _____ feet
 Sample Collection Time: 1155

Purged Dry? (Y/N) Y

Comments:

Groundwater Sampling Data Sheet

Well I.D.: MW-7
 Project Name/Location: 11/09 Project #: 09-88-046
 Sampler's Name: GF Date: 2/23/11
 Purging Equipment: B.V.
 Sampling Equipment: BurW

Casing Type: PVC
 Casing Diameter: _____ inch
 Total Well Depth: _____ feet
 Depth to Water: - 9.62 feet
 Water Column Thickness: = _____ feet
 Unit Casing Volume*: x _____ gallon / foot
 Casing Water Volume: = _____ gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = _____ gallons

***UNIT CASING VOLUMES**

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

Free product measurement (if present): _____

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1111	0.72	-5		644	64.75	6.47	Temp 67.17
10	1116	X	X	X	648	67.25	6.53	
20	1121	X	X	X	648	67.31	6.56	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 20 gallons
 Depth to Water at Sample Collection: _____ feet
 Sample Collection Time: 1125

Purged Dry? (Y/N) (N)

Comments: 3 Burles

Groundwater Sampling Data Sheet

Well I.D.: MW-10
 Project Name/Location: 11109 Project #: 09481642
 Sampler's Name: CR Date: 2/23/11
 Purging Equipment: Bur
 Sampling Equipment: Bur

Casing Type: PVC
 Casing Diameter: 4 inch
 Total Well Depth: _____ feet
 Depth to Water: 7.9 feet
 Water Column Thickness: = _____ feet
 Unit Casing Volume*: x _____ gallon / foot
 Casing Water Volume: = _____ gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = _____ gallons

***UNIT CASING VOLUMES**

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

Free product measurement (if present): _____

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
1	0927	0.79	-3.5		912	65.10	6.52	
2.5	0933	X	X	X	903	66.46	6.65	Shoan
5	0936	X	X	X	901	66.90	6.69	
10	0941	X	X	X	905	67.06	6.68	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 10 gallons
 Depth to Water at Sample Collection: _____ feet
 Sample Collection Time: 0948 Purged Dry? (Y/N) (N)

Comments: Shoan during purge

Handwritten signature

Groundwater Sampling Data Sheet

Well I.D.: mw-4
 Project Name/Location: 11108 Project #: 09-88-645
 Sampler's Name: EF Date: 2/23/11
 Purging Equipment: B
 Sampling Equipment: B

Casing Type: PVC
 Casing Diameter: 4 inch
 Total Well Depth: _____ feet
 Depth to Water: - 11.03 feet
 Water Column Thickness: = _____ feet
 Unit Casing Volume*: x _____ gallon / foot
 Casing Water Volume: = _____ gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = _____ gallons

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

Free product measurement (if present): _____

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
<u>0</u>	<u>1047</u>	<u>0.61</u>	<u>-37.9</u>		<u>625</u>	<u>66.78</u>	<u>6.41</u>	
<u>2.5</u>	<u>1050</u>	X	X	X	<u>614</u>	<u>66.70</u>	<u>6.35</u>	
<u>5</u>	<u>1053</u>	X	X	X	<u>615</u>	<u>66.79</u>	<u>6.40</u>	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 gallons
 Depth to Water at Sample Collection: _____ feet
 Sample Collection Time: 1059
 Purged Dry? (Y/N) (N)

Comments:

Groundwater Sampling Data Sheet

Well I.D.: Mw-11
 Project Name/Location: 11109 Project #: 09-98-GUC
 Sampler's Name: GF Date: 2/28/11
 Purging Equipment: B
 Sampling Equipment: B

Casing Type: PVC
 Casing Diameter: 4 inch
 Total Well Depth: _____ feet
 Depth to Water: 7.60 feet
 Water Column Thickness: = _____ feet
 Unit Casing Volume*: x _____ gallon / foot
 Casing Water Volume: = _____ gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = _____ gallons

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

Free product measurement (if present): _____

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
<u>0</u>	<u>1003</u>	<u>0.80</u>	<u>-79.5</u>		<u>769</u>	<u>66.87</u>	<u>6.57</u>	
<u>2.5</u>	<u>1006</u>	X	X	X	<u>670</u>	<u>66.71</u>	<u>6.57</u>	
<u>5</u>	<u>1010</u>	X	X	X	<u>763</u>	<u>67.31</u>	<u>6.60</u>	
<u>10</u>	<u>1016</u>	X	X	X	<u>924</u>	<u>67.60</u>	<u>6.63</u>	
<u>15</u>	<u>1024</u>	X	X	X	<u>987</u>	<u>67.89</u>	<u>6.62</u>	
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 15 gallons
 Depth to Water at Sample Collection: _____ feet
 Sample Collection Time: 1030
 Purged Dry? (Y (N))

Comments:

DATE: 3/18/11
PERSONNEL: SB
WEATHER: Rain

PROJECT NO.: BP 11109
COMMENTS: 09-38-6410

					Equip:	Geosquirt	Tubing	Bailers	DO	wli	Ec/pH		
Well ID	Time	MEASURING POINT	DTW (FT)	PRODUCT THICKNESS	pH	Cond. (X100)	Temp. (C/F)	DO (mg/l)	Redox (mV)	Iron (mg/l)	Alk. (mg/l)	WELL HEAD CONDITION: VAULT, BOLTS, CAP, LOCK, ETC	
mw-5	1103	TOL	7.65	Shoen								(gaged with bailer)	
mw-10	1056	↓	8.10	—									
mw-11	1119	↓	7.01	—								(gaged with bailer)	
mw-12	1110	V	11.40	Shoen									

APPENDIX C

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

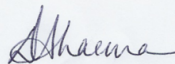
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-33551-1
Client Project/Site: BP #11109, Oakland

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

Attn: Project Manager Hollis Phillips



Authorized for release by:
03/02/2011 03:02:54 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	12
QC Association	18
Chronicle	19
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Sample Receipt Checklist	24

Qualifier Definition/Glossary

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

TestAmerica Job ID: 720-33551-1

Glossary

Glossary	Glossary Description
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Case Narrative

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

TestAmerica Job ID: 720-33551-1

Job ID: 720-33551-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-33551-1

Comments

No additional comments.

Receipt

Type Blank samples received. Not listed on COC. Samples logged and placed on HOLD.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

TestAmerica Job ID: 720-33551-1

Client Sample ID: MW-3 (2/23/11)

Lab Sample ID: 720-33551-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.58		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-4 (2/23/11)

Lab Sample ID: 720-33551-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	55		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-6 (2/23/11)

Lab Sample ID: 720-33551-3

No Detections.

Client Sample ID: MW-7 (2/23/11)

Lab Sample ID: 720-33551-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	4.0		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Benzene	26		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Ethylbenzene	1.4		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Toluene	1.1		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Xylenes, Total	1.6		1.0		ug/L	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	2200		50		ug/L	1		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-10 (2/23/11)

Lab Sample ID: 720-33551-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7000		100		ug/L	200		8260B/CA_LUFTM	Total/NA
Ethylbenzene	2800		100		ug/L	200		8260B/CA_LUFTM	Total/NA
Toluene	5300		100		ug/L	200		8260B/CA_LUFTM	Total/NA
Xylenes, Total	12000		200		ug/L	200		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	61000		10000		ug/L	200		8260B/CA_LUFTM	Total/NA

Client Sample ID: MW-11 (2/23/11)

Lab Sample ID: 720-33551-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	7.2		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Benzene	380		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Ethylbenzene	330		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Toluene	260		5.0		ug/L	10		8260B/CA_LUFTM	Total/NA
Xylenes, Total	540		10		ug/L	10		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C6-C12	10000		500		ug/L	10		8260B/CA_LUFTM	Total/NA

Analytical Data

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

TestAmerica Job ID: 720-33551-1

Client Sample ID: MW-3 (2/23/11)

Lab Sample ID: 720-33551-1

Date Collected: 02/23/11 12:15

Matrix: Water

Date Received: 02/24/11 12:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.58		0.50		ug/L			02/25/11 15:29	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130		02/25/11 15:29	1
1,2-Dichloroethane-d4 (Surr)	111		67 - 130		02/25/11 15:29	1
Toluene-d8 (Surr)	101		70 - 130		02/25/11 15:29	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Analytical Data

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

TestAmerica Job ID: 720-33551-1

Client Sample ID: MW-4 (2/23/11)

Lab Sample ID: 720-33551-2

Date Collected: 02/23/11 10:59

Matrix: Water

Date Received: 02/24/11 12:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	55		0.50		ug/L			02/25/11 16:57	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			02/25/11 16:57	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		67 - 130					02/25/11 16:57	1
1,2-Dichloroethane-d4 (Surr)	113		67 - 130					02/25/11 16:57	1
Toluene-d8 (Surr)	101		70 - 130					02/25/11 16:57	1

Analytical Data

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

TestAmerica Job ID: 720-33551-1

Client Sample ID: MW-6 (2/23/11)

Lab Sample ID: 720-33551-3

Date Collected: 02/23/11 11:39

Matrix: Water

Date Received: 02/24/11 12:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/25/11 17:26	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		67 - 130		02/25/11 17:26	1
1,2-Dichloroethane-d4 (Surr)	112		67 - 130		02/25/11 17:26	1
Toluene-d8 (Surr)	99		70 - 130		02/25/11 17:26	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Analytical Data

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

TestAmerica Job ID: 720-33551-1

Client Sample ID: MW-7 (2/23/11)

Lab Sample ID: 720-33551-4

Date Collected: 02/23/11 11:25

Matrix: Water

Date Received: 02/24/11 12:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	4.0		0.50		ug/L			02/26/11 01:02	1
Benzene	26		0.50		ug/L			02/26/11 01:02	1
EDB	ND		0.50		ug/L			02/26/11 01:02	1
1,2-DCA	ND		0.50		ug/L			02/26/11 01:02	1
Ethylbenzene	1.4		0.50		ug/L			02/26/11 01:02	1
Toluene	1.1		0.50		ug/L			02/26/11 01:02	1
Xylenes, Total	1.6		1.0		ug/L			02/26/11 01:02	1
Gasoline Range Organics (GRO) -C6-C12	2200		50		ug/L			02/26/11 01:02	1
TBA	ND		4.0		ug/L			02/26/11 01:02	1
Ethanol	ND		250		ug/L			02/26/11 01:02	1
DIPE	ND		0.50		ug/L			02/26/11 01:02	1
TAME	ND		0.50		ug/L			02/26/11 01:02	1
Ethyl t-butyl ether	ND		0.50		ug/L			02/26/11 01:02	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	116		67 - 130		02/26/11 01:02	1
1,2-Dichloroethane-d4 (Surr)	120		67 - 130		02/26/11 01:02	1
Toluene-d8 (Surr)	102		70 - 130		02/26/11 01:02	1



Analytical Data

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

TestAmerica Job ID: 720-33551-1

Client Sample ID: MW-10 (2/23/11)

Lab Sample ID: 720-33551-5

Date Collected: 02/23/11 09:45

Matrix: Water

Date Received: 02/24/11 12:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		100		ug/L			02/25/11 05:09	200
Benzene	7000		100		ug/L			02/25/11 05:09	200
EDB	ND		100		ug/L			02/25/11 05:09	200
1,2-DCA	ND		100		ug/L			02/25/11 05:09	200
Ethylbenzene	2800		100		ug/L			02/25/11 05:09	200
Toluene	5300		100		ug/L			02/25/11 05:09	200
Xylenes, Total	12000		200		ug/L			02/25/11 05:09	200
Gasoline Range Organics (GRO) -C6-C12	61000		10000		ug/L			02/25/11 05:09	200
TBA	ND		800		ug/L			02/25/11 05:09	200
Ethanol	ND		50000		ug/L			02/25/11 05:09	200
DIPE	ND		100		ug/L			02/25/11 05:09	200
TAME	ND		100		ug/L			02/25/11 05:09	200
Ethyl t-butyl ether	ND		100		ug/L			02/25/11 05:09	200

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130		02/25/11 05:09	200
1,2-Dichloroethane-d4 (Surr)	113		67 - 130		02/25/11 05:09	200
Toluene-d8 (Surr)	101		70 - 130		02/25/11 05:09	200



Analytical Data

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

TestAmerica Job ID: 720-33551-1

Client Sample ID: MW-11 (2/23/11)

Lab Sample ID: 720-33551-6

Date Collected: 02/23/11 10:30

Matrix: Water

Date Received: 02/24/11 12:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	7.2		5.0		ug/L			02/25/11 05:39	10
Benzene	380		5.0		ug/L			02/25/11 05:39	10
EDB	ND		5.0		ug/L			02/25/11 05:39	10
1,2-DCA	ND		5.0		ug/L			02/25/11 05:39	10
Ethylbenzene	330		5.0		ug/L			02/25/11 05:39	10
Toluene	260		5.0		ug/L			02/25/11 05:39	10
Xylenes, Total	540		10		ug/L			02/25/11 05:39	10
Gasoline Range Organics (GRO) -C6-C12	10000		500		ug/L			02/25/11 05:39	10
TBA	ND		40		ug/L			02/25/11 05:39	10
Ethanol	ND		2500		ug/L			02/25/11 05:39	10
DIPE	ND		5.0		ug/L			02/25/11 05:39	10
TAME	ND		5.0		ug/L			02/25/11 05:39	10
Ethyl t-butyl ether	ND		5.0		ug/L			02/25/11 05:39	10

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		67 - 130		02/25/11 05:39	10
1,2-Dichloroethane-d4 (Surr)	115		67 - 130		02/25/11 05:39	10
Toluene-d8 (Surr)	102		70 - 130		02/25/11 05:39	10



Quality Control Data

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

TestAmerica Job ID: 720-33551-1

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

Lab Sample ID: MB 720-86785/5

Matrix: Water

Analysis Batch: 86785

Client Sample ID: MB 720-86785/5

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
MTBE	ND		0.50		ug/L			02/24/11 20:31	1
Benzene	ND		0.50		ug/L			02/24/11 20:31	1
EDB	ND		0.50		ug/L			02/24/11 20:31	1
1,2-DCA	ND		0.50		ug/L			02/24/11 20:31	1
Ethylbenzene	ND		0.50		ug/L			02/24/11 20:31	1
Toluene	ND		0.50		ug/L			02/24/11 20:31	1
m-Xylene & p-Xylene	ND		1.0		ug/L			02/24/11 20:31	1
o-Xylene	ND		0.50		ug/L			02/24/11 20:31	1
Xylenes, Total	ND		1.0		ug/L			02/24/11 20:31	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			02/24/11 20:31	1
TBA	ND		4.0		ug/L			02/24/11 20:31	1
Ethanol	ND		250		ug/L			02/24/11 20:31	1
DIPE	ND		0.50		ug/L			02/24/11 20:31	1
TAME	ND		0.50		ug/L			02/24/11 20:31	1
Ethyl t-butyl ether	ND		0.50		ug/L			02/24/11 20:31	1
Surrogate	MB MB		Limits		Unit	D	Prepared	Analyzed	Dil Fac
% Recovery	Qualifier								
4-Bromofluorobenzene	101		67 - 130					02/24/11 20:31	1
1,2-Dichloroethane-d4 (Surr)	114		67 - 130					02/24/11 20:31	1
Toluene-d8 (Surr)	99		70 - 130					02/24/11 20:31	1

Lab Sample ID: LCS 720-86785/6

Matrix: Water

Analysis Batch: 86785

Client Sample ID: LCS 720-86785/6

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits	
								MTBE
Benzene	25.0	23.6		ug/L		95	82 - 127	
EDB	25.0	26.0		ug/L		104	70 - 130	
1,2-DCA	25.0	26.6		ug/L		107	70 - 126	
Ethylbenzene	25.0	24.2		ug/L		97	86 - 135	
Toluene	25.0	23.9		ug/L		95	83 - 129	
m-Xylene & p-Xylene	50.0	50.1		ug/L		100	70 - 142	
o-Xylene	25.0	25.8		ug/L		103	89 - 136	
TBA	500	461		ug/L		92	82 - 116	
Ethanol	500	611		ug/L		122	31 - 216	
DIPE	25.0	23.9		ug/L		96	74 - 155	
TAME	25.0	27.3		ug/L		109	79 - 129	
Ethyl t-butyl ether	25.0	25.6		ug/L		103	70 - 130	
Surrogate	LCS LCS		Limits		Unit	D	% Rec	% Rec. Limits
% Recovery	Qualifier							
4-Bromofluorobenzene	102		67 - 130					
1,2-Dichloroethane-d4 (Surr)	112		67 - 130					
Toluene-d8 (Surr)	101		70 - 130					

Quality Control Data

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

TestAmerica Job ID: 720-33551-1

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

Lab Sample ID: LCS 720-86785/8

Matrix: Water

Analysis Batch: 86785

Client Sample ID: LCS 720-86785/8

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits	
Gasoline Range Organics (GRO) -C6-C12	500	440		ug/L		88	58 - 106	
Surrogate		LCS % Recovery	LCS Qualifier				Limits	
4-Bromofluorobenzene		106					67 - 130	
1,2-Dichloroethane-d4 (Surr)		116					67 - 130	
Toluene-d8 (Surr)		101					70 - 130	

Lab Sample ID: LCSD 720-86785/7

Matrix: Water

Analysis Batch: 86785

Client Sample ID: LCSD 720-86785/7

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits		RPD	
									RPD	Limit
MTBE	25.0	25.9		ug/L		104	62 - 130		0	20
Benzene	25.0	23.5		ug/L		94	82 - 127		1	20
EDB	25.0	26.0		ug/L		104	70 - 130		0	20
1,2-DCA	25.0	26.3		ug/L		105	70 - 126		1	20
Ethylbenzene	25.0	24.4		ug/L		97	86 - 135		1	20
Toluene	25.0	24.1		ug/L		96	83 - 129		1	20
m-Xylene & p-Xylene	50.0	50.2		ug/L		100	70 - 142		0	20
o-Xylene	25.0	26.0		ug/L		104	89 - 136		1	20
TBA	500	460		ug/L		92	82 - 116		0	20
Ethanol	500	617		ug/L		123	31 - 216		1	30
DIPE	25.0	23.7		ug/L		95	74 - 155		1	20
TAME	25.0	26.7		ug/L		107	79 - 129		2	20
Ethyl t-butyl ether	25.0	25.1		ug/L		100	70 - 130		2	20
Surrogate		LCSD % Recovery	LCSD Qualifier				Limits			
4-Bromofluorobenzene		104					67 - 130			
1,2-Dichloroethane-d4 (Surr)		111					67 - 130			
Toluene-d8 (Surr)		101					70 - 130			

Lab Sample ID: LCSD 720-86785/9

Matrix: Water

Analysis Batch: 86785

Client Sample ID: LCSD 720-86785/9

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits		RPD	
									RPD	Limit
Gasoline Range Organics (GRO) -C6-C12	500	442		ug/L		88	58 - 106		0	20
Surrogate		LCSD % Recovery	LCSD Qualifier				Limits			
4-Bromofluorobenzene		105					67 - 130			
1,2-Dichloroethane-d4 (Surr)		114					67 - 130			
Toluene-d8 (Surr)		102					70 - 130			

Quality Control Data

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

TestAmerica Job ID: 720-33551-1

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

Lab Sample ID: MB 720-86806/5

Matrix: Water

Analysis Batch: 86806

Client Sample ID: MB 720-86806/5

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		0.50		ug/L			02/25/11 09:52	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			02/25/11 09:52	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	102		67 - 130		02/25/11 09:52	1
1,2-Dichloroethane-d4 (Surr)	113		67 - 130		02/25/11 09:52	1
Toluene-d8 (Surr)	100		70 - 130		02/25/11 09:52	1

Lab Sample ID: LCS 720-86806/6

Matrix: Water

Analysis Batch: 86806

Client Sample ID: LCS 720-86806/6

Prep Type: Total/NA

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

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	106		67 - 130
1,2-Dichloroethane-d4 (Surr)	112		67 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: LCS 720-86806/8

Matrix: Water

Analysis Batch: 86806

Client Sample ID: LCS 720-86806/8

Prep Type: Total/NA

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

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	106		67 - 130
1,2-Dichloroethane-d4 (Surr)	115		67 - 130
Toluene-d8 (Surr)	106		70 - 130

Lab Sample ID: LCSD 720-86806/7

Matrix: Water

Analysis Batch: 86806

Client Sample ID: LCSD 720-86806/7

Prep Type: Total/NA

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

Surrogate	LCSD LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	106		67 - 130
1,2-Dichloroethane-d4 (Surr)	109		67 - 130
Toluene-d8 (Surr)	104		70 - 130

Quality Control Data

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

TestAmerica Job ID: 720-33551-1

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

Lab Sample ID: LCSD 720-86806/9

Matrix: Water

Analysis Batch: 86806

Client Sample ID: LCSD 720-86806/9

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C12	500	423		ug/L		85	58 - 106	3	20
Surrogate	% Recovery	LCSD	LCSD	Qualifier			Limits		
4-Bromofluorobenzene	105						67 - 130		
1,2-Dichloroethane-d4 (Surr)	115						67 - 130		
Toluene-d8 (Surr)	106						70 - 130		

Lab Sample ID: 720-33551-1 MS

Matrix: Water

Analysis Batch: 86806

Client Sample ID: MW-3 (2/23/11)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	0.58		25.0	28.8		ug/L		113	60 - 138
Surrogate	% Recovery	MS	MS	Qualifier					Limits
4-Bromofluorobenzene	104								67 - 130
1,2-Dichloroethane-d4 (Surr)	112								67 - 130
Toluene-d8 (Surr)	105								70 - 130

Lab Sample ID: 720-33551-1 MSD

Matrix: Water

Analysis Batch: 86806

Client Sample ID: MW-3 (2/23/11)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	0.58		25.0	29.3		ug/L		115	60 - 138	1	20
Surrogate	% Recovery	MSD	MSD	Qualifier					Limits		
4-Bromofluorobenzene	103								67 - 130		
1,2-Dichloroethane-d4 (Surr)	114								67 - 130		
Toluene-d8 (Surr)	105								70 - 130		

Lab Sample ID: MB 720-86843/10

Matrix: Water

Analysis Batch: 86843

Client Sample ID: MB 720-86843/10

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			02/25/11 20:58	1
Benzene	ND		0.50		ug/L			02/25/11 20:58	1
EDB	ND		0.50		ug/L			02/25/11 20:58	1
1,2-DCA	ND		0.50		ug/L			02/25/11 20:58	1
Ethylbenzene	ND		0.50		ug/L			02/25/11 20:58	1
Toluene	ND		0.50		ug/L			02/25/11 20:58	1
m-Xylene & p-Xylene	ND		1.0		ug/L			02/25/11 20:58	1
o-Xylene	ND		0.50		ug/L			02/25/11 20:58	1
Xylenes, Total	ND		1.0		ug/L			02/25/11 20:58	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			02/25/11 20:58	1
TBA	ND		4.0		ug/L			02/25/11 20:58	1
Ethanol	ND		250		ug/L			02/25/11 20:58	1

Quality Control Data

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

TestAmerica Job ID: 720-33551-1

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

Lab Sample ID: MB 720-86843/10

Matrix: Water

Analysis Batch: 86843

Client Sample ID: MB 720-86843/10

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DIPE	ND		0.50		ug/L			02/25/11 20:58	1
TAME	ND		0.50		ug/L			02/25/11 20:58	1
Ethyl t-butyl ether	ND		0.50		ug/L			02/25/11 20:58	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130		02/25/11 20:58	1
1,2-Dichloroethane-d4 (Surr)	116		67 - 130		02/25/11 20:58	1
Toluene-d8 (Surr)	98		70 - 130		02/25/11 20:58	1

Lab Sample ID: LCS 720-86843/6

Matrix: Water

Analysis Batch: 86843

Client Sample ID: LCS 720-86843/6

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
MTBE	25.0	28.8		ug/L		115	62 - 130
Benzene	25.0	26.4		ug/L		105	82 - 127
EDB	25.0	28.6		ug/L		115	70 - 130
1,2-DCA	25.0	29.9		ug/L		120	70 - 126
Ethylbenzene	25.0	26.9		ug/L		107	86 - 135
Toluene	25.0	25.7		ug/L		103	83 - 129
m-Xylene & p-Xylene	50.0	54.0		ug/L		108	70 - 142
o-Xylene	25.0	28.5		ug/L		114	89 - 136
TBA	500	496		ug/L		99	82 - 116
Ethanol	500	604		ug/L		121	31 - 216
DIPE	25.0	27.1		ug/L		108	74 - 155
TAME	25.0	30.5		ug/L		122	79 - 129
Ethyl t-butyl ether	25.0	29.0		ug/L		116	70 - 130

Surrogate	LCS % Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	114		67 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCS 720-86843/8

Matrix: Water

Analysis Batch: 86843

Client Sample ID: LCS 720-86843/8

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Gasoline Range Organics (GRO) -C6-C12	500	453		ug/L		91	58 - 106

Surrogate	LCS % Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	119		67 - 130
Toluene-d8 (Surr)	103		70 - 130

Quality Control Data

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

TestAmerica Job ID: 720-33551-1

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

Lab Sample ID: LCSD 720-86843/7

Matrix: Water

Analysis Batch: 86843

Client Sample ID: LCSD 720-86843/7

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD
							Limits	RPD	
MTBE	25.0	28.8		ug/L		115	62 - 130	0	20
Benzene	25.0	26.1		ug/L		104	82 - 127	1	20
EDB	25.0	28.4		ug/L		114	70 - 130	1	20
1,2-DCA	25.0	29.3		ug/L		117	70 - 126	2	20
Ethylbenzene	25.0	26.4		ug/L		106	86 - 135	2	20
Toluene	25.0	25.1		ug/L		100	83 - 129	2	20
m-Xylene & p-Xylene	50.0	52.9		ug/L		106	70 - 142	2	20
o-Xylene	25.0	28.1		ug/L		112	89 - 136	2	20
TBA	500	498		ug/L		100	82 - 116	0	20
Ethanol	500	633		ug/L		127	31 - 216	5	30
DIPE	25.0	27.1		ug/L		108	74 - 155	0	20
TAME	25.0	30.3		ug/L		121	79 - 129	1	20
Ethyl t-butyl ether	25.0	28.6		ug/L		114	70 - 130	2	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	113		67 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 720-86843/9

Matrix: Water

Analysis Batch: 86843

Client Sample ID: LCSD 720-86843/9

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD
							Limits	RPD	
Gasoline Range Organics (GRO) -C6-C12	500	450		ug/L		90	58 - 106	1	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	105		67 - 130
1,2-Dichloroethane-d4 (Surr)	115		67 - 130
Toluene-d8 (Surr)	102		70 - 130

QC Association Summary

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

TestAmerica Job ID: 720-33551-1

GC/MS VOA

Analysis Batch: 86785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-33551-5	MW-10 (2/23/11)	Total/NA	Water	8260B/CA_LUF TMS	
720-33551-6	MW-11 (2/23/11)	Total/NA	Water	8260B/CA_LUF TMS	
MB 720-86785/5	MB 720-86785/5	Total/NA	Water	8260B/CA_LUF TMS	
LCS 720-86785/6	LCS 720-86785/6	Total/NA	Water	8260B/CA_LUF TMS	
LCSD 720-86785/7	LCSD 720-86785/7	Total/NA	Water	8260B/CA_LUF TMS	
LCS 720-86785/8	LCS 720-86785/8	Total/NA	Water	8260B/CA_LUF TMS	
LCSD 720-86785/9	LCSD 720-86785/9	Total/NA	Water	8260B/CA_LUF TMS	

Analysis Batch: 86806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-33551-1	MW-3 (2/23/11)	Total/NA	Water	8260B/CA_LUF TMS	
720-33551-1 MS	MW-3 (2/23/11)	Total/NA	Water	8260B/CA_LUF TMS	
720-33551-1 MSD	MW-3 (2/23/11)	Total/NA	Water	8260B/CA_LUF TMS	
720-33551-2	MW-4 (2/23/11)	Total/NA	Water	8260B/CA_LUF TMS	
720-33551-3	MW-6 (2/23/11)	Total/NA	Water	8260B/CA_LUF TMS	
MB 720-86806/5	MB 720-86806/5	Total/NA	Water	8260B/CA_LUF TMS	
LCS 720-86806/6	LCS 720-86806/6	Total/NA	Water	8260B/CA_LUF TMS	
LCSD 720-86806/7	LCSD 720-86806/7	Total/NA	Water	8260B/CA_LUF TMS	
LCS 720-86806/8	LCS 720-86806/8	Total/NA	Water	8260B/CA_LUF TMS	
LCSD 720-86806/9	LCSD 720-86806/9	Total/NA	Water	8260B/CA_LUF TMS	

Analysis Batch: 86843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-86843/10	MB 720-86843/10	Total/NA	Water	8260B/CA_LUF TMS	
720-33551-4	MW-7 (2/23/11)	Total/NA	Water	8260B/CA_LUF TMS	
LCS 720-86843/6	LCS 720-86843/6	Total/NA	Water	8260B/CA_LUF TMS	
LCSD 720-86843/7	LCSD 720-86843/7	Total/NA	Water	8260B/CA_LUF TMS	
LCS 720-86843/8	LCS 720-86843/8	Total/NA	Water	8260B/CA_LUF TMS	
LCSD 720-86843/9	LCSD 720-86843/9	Total/NA	Water	8260B/CA_LUF TMS	

Lab Chronicle

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

TestAmerica Job ID: 720-33551-1

Client Sample ID: MW-3 (2/23/11)

Date Collected: 02/23/11 12:15

Date Received: 02/24/11 12:25

Lab Sample ID: 720-33551-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		1	86806	02/25/11 15:29	JZ	TestAmerica San Francisco

Client Sample ID: MW-4 (2/23/11)

Date Collected: 02/23/11 10:59

Date Received: 02/24/11 12:25

Lab Sample ID: 720-33551-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		1	86806	02/25/11 16:57	JZ	TestAmerica San Francisco

Client Sample ID: MW-6 (2/23/11)

Date Collected: 02/23/11 11:39

Date Received: 02/24/11 12:25

Lab Sample ID: 720-33551-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		1	86806	02/25/11 17:26	JZ	TestAmerica San Francisco

Client Sample ID: MW-7 (2/23/11)

Date Collected: 02/23/11 11:25

Date Received: 02/24/11 12:25

Lab Sample ID: 720-33551-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		1	86843	02/26/11 01:02	AC	TestAmerica San Francisco

Client Sample ID: MW-10 (2/23/11)

Date Collected: 02/23/11 09:45

Date Received: 02/24/11 12:25

Lab Sample ID: 720-33551-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		200	86785	02/25/11 05:09	LL	TestAmerica San Francisco

Client Sample ID: MW-11 (2/23/11)

Date Collected: 02/23/11 10:30

Date Received: 02/24/11 12:25

Lab Sample ID: 720-33551-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUF TMS		10	86785	02/25/11 05:39	LL	TestAmerica San Francisco

Certification Summary

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

TestAmerica Job ID: 720-33551-1

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

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

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

TestAmerica Job ID: 720-33551-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

TestAmerica Job ID: 720-33551-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-33551-1	MW-3 (2/23/11)	Water	02/23/11 12:15	02/24/11 12:25
720-33551-2	MW-4 (2/23/11)	Water	02/23/11 10:59	02/24/11 12:25
720-33551-3	MW-6 (2/23/11)	Water	02/23/11 11:39	02/24/11 12:25
720-33551-4	MW-7 (2/23/11)	Water	02/23/11 11:25	02/24/11 12:25
720-33551-5	MW-10 (2/23/11)	Water	02/23/11 09:45	02/24/11 12:25
720-33551-6	MW-11 (2/23/11)	Water	02/23/11 10:30	02/24/11 12:25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

phone 925.484.1919 fax 925.600.3002

720-33551

Chain of Custody Record



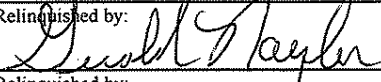
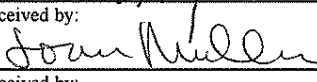
TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

129867

TestAmerica Laboratories, Inc.

03/02/2011

Client Contact		Project Manager: Jason Duda			Site Contact:		Date:		COC No:			
Broadbent & Associates		Tel/Fax: (530) 566-1400/ (530) 566-1401			Lab Contact: Dimple Sharma		Carrier:		_____ of _____ COCs			
1324 Mangrove Ave Suite 212		Analysis Turnaround Time			Filtered Sample GRO by 8015 BTEX S oxygenates 1,2 DCA and EDB Ethanol MIBE				Job No.			
Chico, CA 95926		Calendar (C) or Work Days (W) _____							<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		SDG No.	
(530) 566-1400		TAT if different from Below _____										
(530) 566-1401												
Project Name: BP 11109												
Site: 4280 Foothill Blvd, Oakland, CA												
P O # GP09BPNA.C106									Sample Specific Notes:			
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.						
1	MW-3 (2/23/11)	2/23/2011	1215	Grab	AQ	3V						
2	MW-4 (2/23/11)	2/23/11	1059				X					
3	MW-6 (2/23/11)	2/23/11	1139									
4	MW-7 (2/23/11)	2/23/11	1125				X	X	X	X		
5	MW-10 (2/23/11)	2/23/11	0945				X	X	X	X		
6	MW-11 (2/23/11)	2/23/11	1030				X	X	X	X		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments:												
5-22												
Relinquished by: 		Company: <i>B&A</i>		Date/Time: 2/23/11 1500		Received by: 		Company: TEST America		Date/Time: 2-24-11 10:07		
Relinquished by: 		Company: TEST America		Date/Time: 2-24-11 12:25		Received by: 		Company: <i>Test America</i>		Date/Time: 2-24-11 12:25		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		

Page 23 of 24

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc.

Job Number: 720-33551-1

Login Number: 33551
Creator: Mullen, Joan
List Number: 1

List Source: TestAmerica San Francisco

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



APPENDIX D

GEOTRACKER UPLOAD CONFIRMATION RECEIPTS

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

<u>Submittal Type:</u>	EDF - Monitoring Report - Quarterly
<u>Submittal Title:</u>	1Q11 GW Monitoring
<u>Facility Global ID:</u>	T0600100217
<u>Facility Name:</u>	BP #11109
<u>File Name:</u>	720-33551-1.zip
<u>Organization Name:</u>	Broadbent & Associates, Inc.
<u>Username:</u>	BROADBENT-C
<u>IP Address:</u>	67.118.40.90
<u>Submittal Date/Time:</u>	3/16/2011 9:52:03 AM
<u>Confirmation Number:</u>	8181062102

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

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

<u>Submittal Type:</u>	GEO_WELL
<u>Submittal Title:</u>	1Q11 GEO_WELL 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>	3/16/2011 9:55:43 AM
<u>Confirmation Number:</u>	9873677074