



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 1257
San Ramon, CA 94583
Phone: (925) 275-3801
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24 April 2008

Re: First Quarter 2008 Ground-Water Monitoring Report
Former BP Station # 11132
3201 35th Avenue
Oakland, California
ACEH Case #RO0000014

“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.”

Submitted by:

Paul Supple
Environmental Business Manger

RECEIVED

9:46 am, May 01, 2008

Alameda County
Environmental Health



First Quarter 2008 Ground-Water Monitoring Report

Former BP Station #11132

3201 35th Avenue
Oakland, California

Prepared for

Mr. Paul Supple
Environmental Business Manager
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

24 April 2008

Project No. 06-08-655

24 April 2008

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Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583
Submitted via ENFOS

Attn.: Mr. Paul Supple

Re: First Quarter 2008 Ground-Water Monitoring Report, Former BP Station #11132,
3201 35th Avenue, Oakland, Alameda County, California; ACEH Case #RO0000014

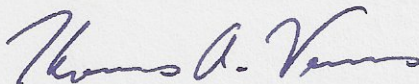
Dear Mr. Supple:

Provided herein is the *First Quarter 2008 Ground-Water Monitoring Report* for Former BP Station #11132 located at 3201 35th Avenue, Oakland, California (Site). This report presents results of the ground-water monitoring and sampling conducted at the Site during the First Quarter of 2008.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

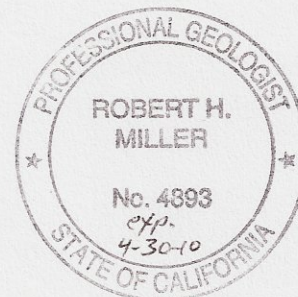
BROADBENT & ASSOCIATES, INC.



Thomas A. Venus, P.E.
Senior Engineer



Robert H. Miller, P.G., C.HG.
Principal Hydrogeologist



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

STATION #11132 QUARTERLY GROUND-WATER MONITORING REPORT

Facility: #11132	Address:	3201 35 th Avenue, Oakland, California
Environmental Business Manager:		Mr. Paul Supple
Consulting Co./Contact Persons:		Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus (530) 566-1400
Consultant Project No.:		06-08-655
Primary Agency/Regulatory ID No.:		Alameda County Environmental Health (ACEH) ACEH Case # RO0000014

WORK PERFORMED THIS QUARTER (First Quarter 2008):

1. Prepared and submitted Fourth Quarter 2007 Interim Remedial Measures and Ground-Water Monitoring Report.
2. Conducted ground-water monitoring/sampling for First Quarter 2008. Work performed by Stratus Environmental, Inc. (Stratus) on 20 February 2008.
3. Performed monthly free product (FP) gauging and bailing.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2008):

1. Prepared and submitted this First Quarter 2008 Ground-Water Monitoring Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for Second Quarter 2008.
3. Perform monthly FP gauging and bailing.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	Ground-Water Monitoring/Sampling/FP Bailing
Frequency of ground-water monitoring:	Quarterly: MW-1 through MW-10 and RW-1
Frequency of ground-water sampling:	Quarterly: MW-1, MW-2, MW-5, MW-8, MW-9, MW-10, and RW-1 Annually (1Q): MW-3, MW-4, MW-6, and MW-7
Is free product (FP) present on-site:	Yes (MW-1, MW-2, MW-9, MW-10, RW-1)
FP recovered this quarter:	10.0 gallons
Cumulative FP recovered since 1990:	88.274 gallons
Current remediation techniques:	Interim FP Bailing
Depth to ground water (below TOC):	11.81 ft (MW-6) to 17.74 ft (MW-4)
General ground-water flow direction:	Southeast
Approximate hydraulic gradient:	0.008 ft/ft

DISCUSSION:

First quarter ground-water monitoring was conducted at Former BP Station #11132 by Stratus on 20 February 2008. Water levels were gauged in 10 of the 11 wells at the Site. Well MW-8 was inaccessible due to a parked car. The well box of well MW-9 was found to be filled with sand and missing the lid. Stratus dug out the sand to obtain the depth to water level and replaced the lid. Separate phase hydrocarbons (SPH, or Free Product – FP) were observed in wells MW-1 (0.02 ft), MW-2 (0.06 ft), MW-9 (0.03 ft), MW-10 (0.05 ft) and RW-1 (0.02 ft). No other irregularities were noted during water level gauging. Depth to water measurements across the Site ranged from 11.81 ft at MW-6 to 17.74 ft at MW-4. Resulting ground-water surface elevations ranged from 153.59 ft above mean sea level at wells MW-3 and MW-6 to 152.18 ft at MW-7. First quarter 2008 ground-water elevations were within the

historic minimum and maximum ranges for each well. These ground-water level elevations yielded a potentiometric ground-water flow direction and gradient of approximately 0.008 ft/ft to the southeast, which is within the range of historical data (see Table 3). Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground water and respective ground-water elevations are summarized in Table 1. Potentiometric ground-water elevation contours are presented in Drawing 1.

Ground-water samples were collected from wells MW-3 through MW-7. Wells MW-1, MW-2, MW-9, MW-10 and RW-1 were not sampled as FP was present (See discussion below). Well MW-8 was inaccessible due to a parked car. No other irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to Calscience Environmental Laboratories, Inc. (Garden Grove, California), for analysis of Gasoline Range Organics (GRO, C6-C12) by EPA Method 8015B; for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Di-isopropyl ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Ethanol, Ethyl tert-butyl ether (ETBE), and Methyl tert-butyl ether (MTBE) by EPA Method 8260B. No significant irregularities were encountered during laboratory analysis of the samples. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

Concentrations of GRO were detected above the laboratory reporting limit in two of the five wells sampled at concentrations up to 2,500 micrograms per liter ($\mu\text{g/L}$) in well MW-5. Benzene was detected above the laboratory reporting limit in two of the five wells sampled at concentrations up to 530 $\mu\text{g/L}$ in well MW-5. Ethylbenzene was detected above the laboratory reporting limit in two of the five wells sampled at concentrations up to 75 $\mu\text{g/L}$ in well MW-5. Total Xylenes were detected above the laboratory reporting limit in two of the five wells sampled at concentrations up to 62 $\mu\text{g/L}$ in well MW-5. TAME was detected above the laboratory reporting limit in one of the five wells sampled at a concentration of 12 $\mu\text{g/L}$ in well MW-7. TBA was detected above the laboratory reporting limit in one of the five wells sampled at a concentration of 13 $\mu\text{g/L}$ in well MW-7. MTBE was detected above the laboratory reporting limit in four of the five wells sampled at concentrations up to 700 $\mu\text{g/L}$ in well MW-7. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the wells sampled this quarter.

Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well with the following exception: TAME, TBA and 1,2-DCA each reached historic maximum values of 12 $\mu\text{g/L}$, 13 $\mu\text{g/L}$, and 0.60 $\mu\text{g/L}$, respectively, in well MW-7. Historic laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 1. A copy of the laboratory analytical report, including chain-of-custody documentation, is provided in Appendix A. Ground-water monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix B.

Separate phase hydrocarbons (SPH, or Free Product – FP) were monitored and removed during January and February 2008. During the January FP gauging/bailing event on 14 January 2008, FP thickness was measured in wells MW-1 (0.01 ft) and RW-1 (0.01 ft). Well MW-8 was not monitored because it was inaccessible due to the presence of a parked car. No sheen or FP was recorded in wells MW-9 or MW-10. Approximately three gallons of FP/water mixture was removed from well MW-1 and approximately four gallons of FP/water mixture was removed from well RW-1 during this visit. During the February FP bailing event on 27 February 2008, FP thickness was not measured in wells RW-1, MW-1, MW-2, MW-9, or MW-10. Well MW-8 was not monitored because it was inaccessible due to the presence of a parked car. Approximately one gallon of FP/water mixture was removed from each well RW-1 and MW-2 while approximately two gallons of FP/water mixture was removed from well MW-1 during this visit. Adsorbent socks were placed in wells RW-1 and MW-1 prior to departure. A visit to

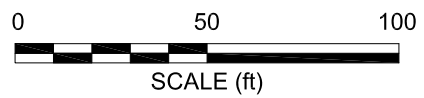
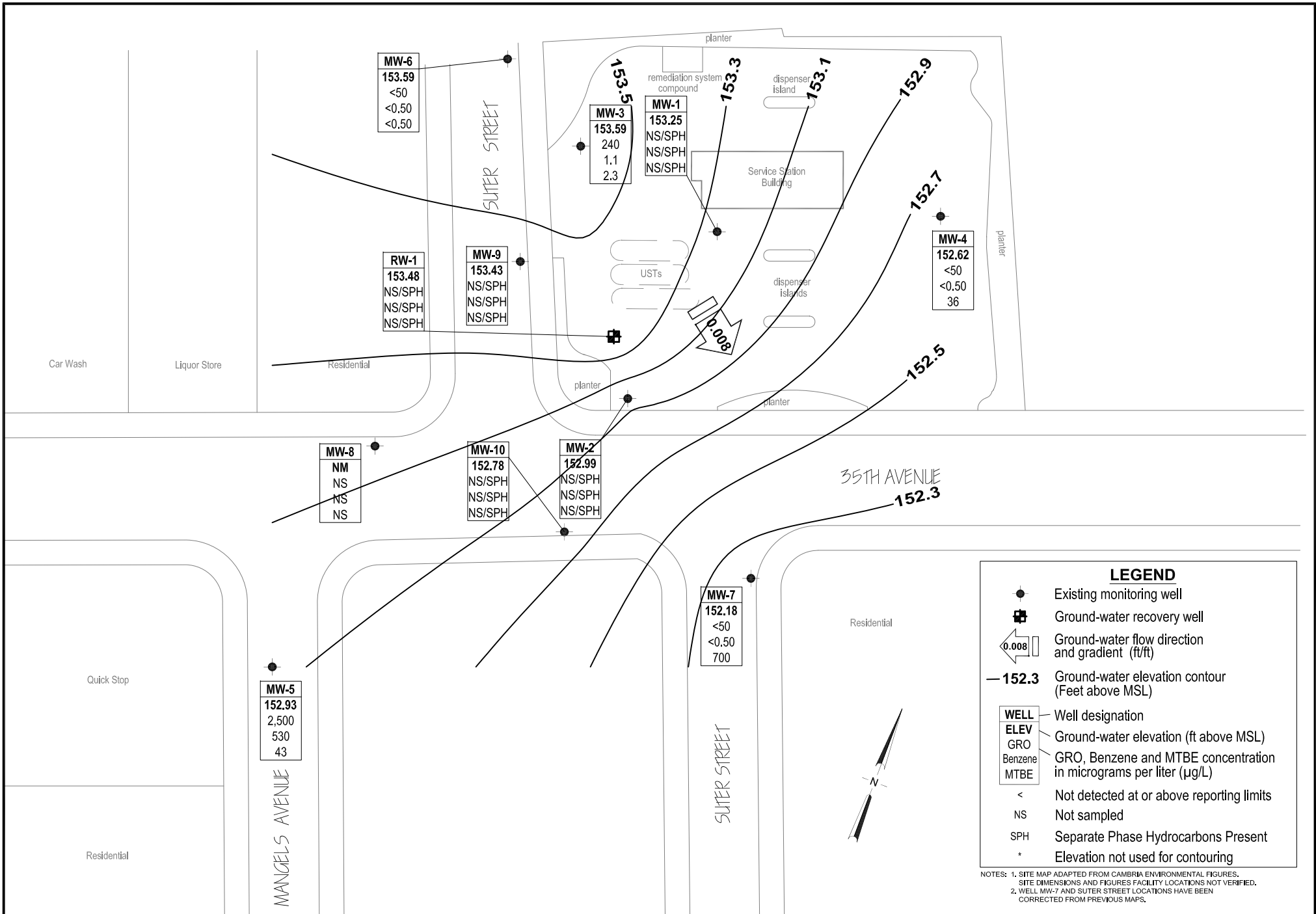
the Site to monitor and remove FP was not conducted during the month of March. Total cumulative FP removed to date at the Site is approximately 88.274 gallons, but this does not include the unknown volume removed within absorbent socks that have been installed and replaced as necessary since Second Quarter 2007. Table 4 contains a summary of FP removal data. Copies of the field data sheets for visits to the Site conducted this quarter are included within Appendix A.

CLOSURE:

The findings presented in this report are based upon: observations of Stratus field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Calscience Environmental Laboratories, Inc. (Garden Grove, California). 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 Atlantic Richfield Company. It is possible that variations in soil or ground-water 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. Ground-Water Elevation Contour and Analytical Summary Map, 20 February 2008, Former BP Service Station #11132, 3201 35th Avenue, Oakland, California
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11132, 3201 35th Ave., Oakland, California
- Table 2. Summary of Fuel Additives Analytical Data, Station #11132, 3201 35th Ave., Oakland, California
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #11132, 3201 35th Ave., Oakland, California
- Table 4. Free Product Removal, Former BP Service Station #11132, 3201 35th Avenue, Oakland, California
- Appendix A. Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets, Laboratory Analytical Report with Chain-of-Custody Documentation, and Field Procedures)
- Appendix B. GeoTracker Upload Confirmation



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No.: 06-08-655 Date: 3/18/08

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

Ground-Water Elevation Contours
and Analytical Summary Map
20 February 2008

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-1															
7/9/1990	--	169.75	--	0.22	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	169.75	--	0.58	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--	169.75	20.59	0	149.16	--	--	--	--	--	--	--	--	--	
4/1/1991	--	169.75	16.51	0.15	153.09	--	--	--	--	--	--	--	--	--	
6/27/1991	--	169.75	--	0.18	--	--	--	--	--	--	--	--	--	--	
9/27/1991	--	169.75	--	0.27	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--	169.75	--	0.28	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--	169.75	22.30	0.27	147.18	--	--	--	--	--	--	--	--	--	
10/5/1992	--	169.75	23.98	0.24	145.53	--	--	--	--	--	--	--	--	--	
1/13/1993	--	169.75	17.03	0.24	152.48	--	--	--	--	--	--	--	--	--	
4/23/1993	--	169.75	18.10	0.42	151.23	--	--	--	--	--	--	--	--	--	
7/12/1993	--	169.75	22.02	0.49	147.24	--	--	--	--	--	--	--	--	--	
10/21/1993	--	169.75	25.12	1.09	143.54	--	--	--	--	--	--	--	--	--	
1/21/1994	--	169.75	23.02	0.76	145.97	--	--	--	--	--	--	--	--	--	
4/20/1994	--	169.75	24.54	1.8	143.41	--	--	--	--	--	--	--	--	--	
8/1/1994	--	169.75	24.11	0.35	145.29	--	--	--	--	--	--	--	--	--	
12/23/1994	--	169.75	18.19	--	151.56	--	--	--	--	--	--	--	--	--	
1/26/1995	--	169.75	16.25	1.1	152.40	--	--	--	--	--	--	--	--	--	
6/8/95-6/28/95	--	169.75	--	1.25	145.63	--	--	--	--	--	--	--	--	--	
6/8/1995	--	169.75	22.92	--	146.83	--	--	--	--	--	--	--	--	--	
8/22/1995	--	169.75	24.45	0.85	144.45	--	--	--	--	--	--	--	--	--	
10/27/1995	--	169.75	25.41	--	143.65	--	--	--	--	--	--	--	--	--	
10/30/95-12/23/95	--	169.75	--	0.69	--	--	--	--	--	--	--	--	--	--	
1/25/1996	--	169.75	18.20	--	151.55	--	--	--	--	--	--	--	--	--	
1/25/96-2/16/96	--	169.75	--	1.40	150.15	--	--	--	--	--	--	--	--	--	
4/19/1996	--	169.75	19.06	1.22	149.47	--	--	--	--	--	--	--	--	--	
7/23/1996	--	169.75	22.98	0.89	145.88	--	--	--	--	--	--	--	--	--	
11/11/1996	--	169.75	23.99	0.89	144.78	--	--	--	--	--	--	--	--	--	
1/21/1997	--	169.75	16.80	0.9	152.05	--	--	--	--	--	--	--	--	--	
4/29/1997	--	169.75	21.90	0.85	147.00	--	--	--	--	--	--	--	--	--	
4/30/1997	--	169.75	--	--	--	92,000	3,500	8,100	4,400	23,800	6,900	--	--	--	c

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-1 Cont.															
6/24/2003	--	169.75	21.44	0.35	147.96	--	--	--	--	--	--	--	--	--	o
7/28/2003	--	169.75	22.72	0.35	146.68	--	--	--	--	--	--	--	--	--	j
8/12/2003	--	169.75	22.64	0.23	146.88	--	--	--	--	--	--	--	--	--	o
9/12/2003	--	169.75	20.70	0.24	148.81	--	--	--	--	--	--	--	--	--	o
10/3/2003	--	169.75	--	0.23	--	--	--	--	--	--	--	--	--	--	
11/18/2003	NP	169.75	21.70	0.25	148.25	--	--	--	--	--	--	--	--	--	
12/31/2003	--	169.75	--	0.15	--	--	--	--	--	--	--	--	--	--	
2/2/2004	--	169.75	--	0.15	--	--	--	--	--	--	--	--	--	--	
02/23/2004	NP	169.75	16.34	0.09	153.48	--	--	--	--	--	--	--	--	--	
3/18/2004	--	169.75	--	0.09	--	--	--	--	--	--	--	--	--	--	
4/13/2004	--	169.75	--	0.24	--	--	--	--	--	--	--	--	--	--	
05/04/2004	NP	169.75	21.28	0.16	148.60	--	--	--	--	--	--	--	--	--	
6/2/2004	--	169.75	--	0.08	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	169.75	--	0.28	--	--	--	--	--	--	--	--	--	--	
08/04/2004	--	169.75	22.54	0.10	147.29	--	--	--	--	--	--	--	--	--	
09/22/2004	NP	169.75	22.76	0.20	147.15	--	--	--	--	--	--	--	--	--	
10/26/2004	--	169.75	--	0.12	--	--	--	--	--	--	--	--	--	--	
11/10/2004	--	169.75	20.19	0.14	149.67	--	--	--	--	--	--	--	--	--	
12/27/2004	--	169.75	--	0.08	--	--	--	--	--	--	--	--	--	--	
01/13/2005	--	169.75	14.58	0.03	155.19	--	--	--	--	--	--	--	--	--	
02/15/2005	--	169.75	16.13	0.04	153.65	--	--	--	--	--	--	--	--	--	
03/07/2005	--	169.75	13.31	0.01	156.45	--	--	--	--	--	--	--	--	--	
4/29/2005	--	169.75	--	0.01	--	--	--	--	--	--	--	--	--	--	
05/16/2005	--	169.75	15.74	0.02	154.03	--	--	--	--	--	--	--	--	--	j
6/21/2005	--	169.75	--	0.01	--	--	--	--	--	--	--	--	--	--	
7/7/2005	--	169.75	--	0.18	--	--	--	--	--	--	--	--	--	--	
08/17/2005	--	169.75	21.15	0.08	148.66	--	--	--	--	--	--	--	--	--	j
9/6/2005	--	169.75	--	0.02	--	--	--	--	--	--	--	--	--	--	
10/4/2005	--	169.75	--	0.12	--	--	--	--	--	--	--	--	--	--	
11/18/2005	--	169.75	20.15	--	149.60	--	--	--	--	--	--	--	--	--	j
12/30/2005	--	169.75	--	0.03	--	--	--	--	--	--	--	--	--	--	

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

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-1 Cont.															
1/24/2006	--	169.75	--	0.00	--	--	--	--	--	--	--	--	--	--	
02/07/2006	--	169.75	15.19	0.01	154.57	--	--	--	--	--	--	--	--	--	j
3/30/2006	--	169.75	--	0.00	--	--	--	--	--	--	--	--	--	--	
5/19/2006	P	169.75	17.42	--	152.33	44,000	73	510	3,300	5,300	86	--	SEQM	6.9	u, t
8/23/2006	--	169.75	22.01	0.14	147.74	--	--	--	--	--	--	--	--	--	b, j
11/15/2006	--	169.75	21.98	0.18	147.91	--	--	--	--	--	--	--	--	--	b, j
2/14/2007	--	169.75	17.12	0.17	152.76	--	--	--	--	--	--	--	--	--	b, j
5/22/2007	--	169.75	19.49	0.01	150.26	--	--	--	--	--	--	--	--	--	b, j
8/15/2007	--	169.75	22.24	0.01	147.52	--	--	--	--	--	--	--	--	--	b, j
11/8/2007	--	169.75	21.84	0.01	147.92	--	--	--	--	--	--	--	--	--	b, j
2/20/2008	--	169.75	16.52	0.02	153.25	--	--	--	--	--	--	--	--	--	b, j
MW-2															
7/9/1990	--	168.14	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	168.14	--	--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--	168.14	19.18	--	148.96	--	--	--	--	--	--	--	--	--	
4/1/1991	--	168.14	15.21	--	152.93	--	--	--	--	--	--	--	--	--	
6/27/1991	--	168.14	--	--	--	--	--	--	--	--	--	--	--	--	
9/27/1991	--	168.14	--	--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--	168.14	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--	168.14	20.93	--	147.21	--	--	--	--	--	--	--	--	--	
10/5/1992	--	168.14	22.74	--	145.40	--	--	--	--	--	--	--	--	--	
1/13/1993	--	168.14	15.55	--	152.59	--	--	--	--	--	--	--	--	--	
4/23/1993	--	168.14	16.54	--	151.60	--	--	--	--	--	--	--	--	--	
7/12/1993	--	168.14	20.46	--	147.68	--	--	--	--	--	--	--	--	--	
10/21/1993	--	168.14	24.91	--	143.23	--	--	--	--	--	--	--	--	--	
1/21/1994	--	168.14	21.20	--	146.94	--	--	--	--	--	--	--	--	--	
4/20/1994	--	168.14	22.44	--	145.70	1,800	140	370	54	290	24	1.7	--	--	i
8/1/1994	--	168.14	22.24	--	145.90	--	--	--	--	--	--	--	--	--	
12/23/1994	--	168.14	16.25	--	151.89	--	--	--	--	--	--	--	--	--	
1/26/1995	--	168.14	14.55	--	153.59	--	--	--	--	--	--	--	--	--	

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

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-3 Cont.															
5/10/1999	--	167.17	14.21	--	152.96	--	--	--	--	--	--	--	--	--	
8/24/1999	--	167.17	14.36	--	152.81	--	--	--	--	--	--	--	--	--	
11/3/1999	--	167.17	19.21	--	147.96	--	--	--	--	--	--	--	--	--	
3/1/2000	--	167.17	15.17	--	152.00	<50	<0.5	0.57	<0.5	0.62	<0.5	--	--	--	
4/21/2000	--	167.17	14.88	--	152.29	--	--	--	--	--	--	--	--	--	
7/31/2000	--	167.17	15.29	--	151.88	--	--	--	--	--	--	--	--	--	
11/20/2000	--	167.17	17.31	--	149.86	--	--	--	--	--	--	--	--	--	
2/18/2001	--	167.17	12.85	--	154.32	160	1.95	1.31	10.2	9.09	1	--	--	--	
6/7/2001	--	167.17	18.00	--	149.17	--	--	--	--	--	--	--	--	--	
9/5/2001	--	167.17	20.32	--	146.85	--	--	--	--	--	--	--	--	--	
11/30/2001	--	167.17	16.94	--	150.23	--	--	--	--	--	--	--	--	--	
2/20/2002	--	167.17	14.84	--	152.33	86	<0.5	0.845	6.58	5.75	<0.5	--	--	--	
6/20/2002	--	167.17	18.40	--	148.77	--	--	--	--	--	--	--	--	--	
9/11/2002	--	167.17	20.06	--	147.11	--	--	--	--	--	--	--	--	--	
11/12/2002	--	167.17	19.84	--	147.33	--	--	--	--	--	--	--	--	--	
1/27/2003	--	167.17	14.83	--	152.34	850	20	9.7	24	45	0.76	--	--	--	n
5/22/2003	--	167.17	15.60	--	151.57	--	--	--	--	--	--	--	--	--	
7/28/2003	--	167.17	20.12	--	147.05	--	--	--	--	--	--	--	--	--	p
11/18/2003	--	167.17	19.15	--	148.02	--	--	--	--	--	--	--	--	--	
02/23/2004	--	167.17	13.53	--	153.64	160	<0.50	1.1	9.6	12	<0.50	--	SEQM	6.7	
05/04/2004	--	167.17	18.61	--	148.56	--	--	--	--	--	--	--	--	--	
08/04/2004	--	167.17	19.21	--	147.96	--	--	--	--	--	--	--	--	--	
11/10/2004	--	167.17	17.48	--	149.69	--	--	--	--	--	--	--	--	--	
02/15/2005	P	167.17	14.31	--	152.86	500	7.8	1.8	9.2	9.6	1.7	--	SEQM	7.5	
05/16/2005	--	167.17	13.11	--	154.06	--	--	--	--	--	--	--	--	--	
08/17/2005	--	167.17	18.53	--	148.64	--	--	--	--	--	--	--	--	--	
11/18/2005	--	167.17	19.34	--	147.83	--	--	--	--	--	--	--	--	--	
02/07/2006	P	167.17	11.64	--	155.53	65	<0.50	<0.50	1.4	2.3	<0.50	--	SEQM	7.1	
5/19/2006	--	167.17	14.88	--	152.29	--	--	--	--	--	--	--	--	--	
8/23/2006	--	167.17	19.43	--	147.74	--	--	--	--	--	--	--	--	--	
11/15/2006	--	167.17	19.22	--	147.95	--	--	--	--	--	--	--	--	--	

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-4 Cont.															
11/11/1996	--	170.36	23.63	--	146.73	<50	<1.0	<1.0	<1.0	<1.0	34	8.2	--	--	
1/21/1997	--	170.36	16.59	--	153.77	--	--	--	--	--	--	--	--	--	
4/29/1997	--	170.36	21.43	--	148.93	<50	<0.5	<1.0	<1.0	<1.0	<10	4.7	--	--	
8/21/1997	--	170.36	22.91	--	147.45	--	--	--	--	--	--	--	--	--	
11/5/1997	--	170.36	22.34	--	148.02	60	<0.5	<1.0	<1.0	<1.0	76	4.9	--	--	
2/3/1998	--	170.36	12.26	--	158.10	--	--	--	--	--	--	--	--	--	
5/28/1998	--	170.36	18.50	--	151.86	70	<0.5	<1.0	<1.0	<1.0	160	4.2	--	--	
12/30/1998	--	170.36	19.69	--	150.67	--	--	--	--	--	--	--	--	--	
2/2/1999	--	170.36	18.26	--	152.10	70	<1.0	<1.0	<1.0	<1.0	130	--	--	--	
5/10/1999	--	170.36	17.86	--	152.50	--	--	--	--	--	--	--	--	--	
8/24/1999	--	170.36	17.93	--	152.43	--	--	--	--	--	--	--	--	--	
11/3/1999	--	170.36	22.78	--	147.58	--	--	--	--	--	--	--	--	--	
3/1/2000	--	170.36	18.04	--	152.32	<50	<0.5	0.67	<0.5	0.7	110	--	--	--	
4/21/2000	--	170.36	17.36	--	153.00	--	--	--	--	--	--	--	--	--	
7/31/2000	--	170.36	17.83	--	152.53	--	--	--	--	--	--	--	--	--	
11/20/2000	--	170.36	18.91	--	151.45	--	--	--	--	--	--	--	--	--	
2/18/2001	--	170.36	17.72	--	152.64	88	<0.5	<0.5	<0.5	<0.5	97.3	--	--	--	
6/7/2001	--	170.36	20.23	--	150.13	--	--	--	--	--	--	--	--	--	
9/5/2001	--	170.36	22.76	--	147.60	--	--	--	--	--	--	--	--	--	
11/30/2001	--	170.36	21.30	--	149.06	--	--	--	--	--	--	--	--	--	
2/20/2002	--	170.36	19.32	--	151.04	76	<0.5	<0.5	<0.5	<1.0	81	--	--	--	
6/20/2002	--	170.36	20.71	--	149.65	--	--	--	--	--	--	--	--	--	
9/11/2002	--	170.36	22.22	--	148.14	--	--	--	--	--	--	--	--	--	
11/12/2002	--	170.36	22.22	--	148.14	--	--	--	--	--	--	--	--	--	
1/29/2003	--	170.36	19.80	--	150.56	100	<0.5	<0.5	<0.5	<0.5	66	--	--	--	n
5/22/2003	--	170.36	19.35	--	151.01	--	--	--	--	--	--	--	--	--	
7/28/2003	--	170.36	22.18	--	148.18	--	--	--	--	--	--	--	--	--	p
11/18/2003	--	170.36	21.65	--	148.71	--	--	--	--	--	--	--	--	--	
02/23/2004	P	170.36	17.53	--	152.83	75	<0.50	<0.50	<0.50	<0.50	65	--	SEQM	6.8	
05/04/2004	--	170.36	20.62	--	149.74	--	--	--	--	--	--	--	--	--	
08/04/2004	--	170.36	21.30	--	149.06	--	--	--	--	--	--	--	--	--	

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-4 Cont.															
11/10/2004	--	170.36	20.65	--	149.71	--	--	--	--	--	--	--	--	--	
02/15/2005	P	170.36	18.91	--	151.45	<50	<0.50	<0.50	<0.50	<0.50	62	--	SEQM	7.6	
05/16/2005	--	170.36	17.34	--	153.02	--	--	--	--	--	--	--	--	--	
08/17/2005	--	170.36	21.31	--	149.05	--	--	--	--	--	--	--	--	--	
11/18/2005	--	170.36	21.67	--	148.69	--	--	--	--	--	--	--	--	--	
02/07/2006	P	170.36	16.74	--	153.62	100	<0.50	<0.50	1.0	3.0	29	--	SEQM	6.8	
5/19/2006	--	170.36	18.22	--	152.14	--	--	--	--	--	--	--	--	--	
8/23/2006	--	170.36	20.95	--	149.41	--	--	--	--	--	--	--	--	--	
11/15/2006	--	170.36	22.21	--	148.15	--	--	--	--	--	--	--	--	--	
2/14/2007	P	170.36	18.25	--	152.11	<50	<0.50	<0.50	<0.50	<0.50	61	0.95	TAMC	7.34	
5/22/2007	--	170.36	20.16	--	150.20	--	--	--	--	--	--	--	--	--	
8/15/2007	--	170.36	22.34	--	148.02	--	--	--	--	--	--	--	--	--	
11/8/2007	--	170.36	21.86	--	148.50	--	--	--	--	--	--	--	--	--	
2/20/2008	P	170.36	17.74	--	152.62	<50	<0.50	<0.50	<0.50	<0.50	36	2.13	CEL	6.93	
MW-5															
7/9/1990	--	165.14	--	--	--	280	200	210	46	290	--	--	--	--	
12/21/1990	--	165.14	--	--	--	0.69	300	34	8.4	39	--	--	--	--	
3/7/1991	--	165.14	16.60	--	148.54	--	17	0.9	0.7	1.6	--	--	--	--	
4/1/1991	--	165.14	11.99	--	153.15	800	250	54	11	60	--	--	--	--	
6/27/1991	--	165.14	--	--	--	330	120	10	12	8	--	--	--	--	
9/27/1991	--	165.14	--	--	--	0.73	230	16	20	22	--	--	--	--	
12/18/1991	--	165.14	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--	165.14	18.65	--	146.49	150	36	<0.5	<0.5	1.1	--	--	--	--	
10/5/1992	--	165.14	20.32	--	144.82	270	79	4	1.7	2.9	--	--	--	--	
1/13/1993	--	165.14	13.03	--	152.11	180	59	6	1.8	7.6	--	--	--	--	i
4/23/1993	--	165.14	13.51	--	151.63	8,700	440	96	35	136	--	--	--	--	i
7/12/1993	--	165.14	18.06	--	147.08	250	57	2.9	2.1	6	<5.0	--	--	--	i
10/21/1993	--	165.14	20.41	--	144.73	210	82	1.5	<0.5	1.4	--	--	--	--	i
1/21/1994	--	165.14	18.86	--	146.28	110	36	1.2	<0.5	0.7	<5.0	--	--	--	i
4/20/1994	--	165.14	17.30	--	147.84	690	230	4.5	1.6	11	21.2	1.3	--	--	i

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

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-5 Cont.															
8/1/1994	--	165.14	17.53	--	147.61	170	44	1.6	0.9	2.7	<5.0	0.9	--	--	i
12/23/1994	--	165.14	11.63	--	153.51	630	180	1.9	0.66	1.9	7.81	1.4	--	--	i
1/26/1995	--	165.14	11.25	--	153.89	160	68	<0.5	<0.5	22	--	5.9	--	--	
6/8/1995	--	165.14	--	--	--	1,700	560	51	55	170	--	--	--	--	c
6/8/1995	--	165.14	16.80	--	148.34	2,000	630	58	61	180	--	6.5	--	--	
8/22/1995	--	165.14	19.02	--	146.12	3,700	1,100	18	27	59	<130	7.3	--	--	d
10/27/1995	--	165.14	20.94	--	144.20	--	--	--	--	--	--	--	--	--	
10/30/1995	--	165.14	--	--	--	6,500	2,200	55	180	270	<250	7.5	--	--	
1/25/1996	--	165.14	--	--	--	540	37	0.66	<0.50	<1.0	<5.0	--	--	--	c
1/25/1996	--	165.14	13.30	--	151.84	590	37	0.7	<0.50	<1.0	<5.0	--	--	--	
4/19/1996	--	165.14	13.63	--	151.51	1,500	470	38	49	210	<50	8.1	--	--	
7/23/1996	--	165.14	17.61	--	147.53	140	4.6	<0.5	<0.5	<0.5	<10	8	--	--	
11/11/1996	--	165.14	18.70	--	146.44	140	40	<1.0	<1.0	<1.0	<10	7.9	--	--	
1/21/1997	--	165.14	11.63	--	153.51	730	300	<5.0	7.8	26	<50	5	--	--	
4/29/1997	--	165.14	16.74	--	148.40	340	530	<5.0	<5.0	<5.0	<50	4.8	--	--	
8/21/1997	--	165.14	18.26	--	146.88	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	--	--	
11/5/1997	--	165.14	18.84	--	146.30	120	13	<1.0	<1.0	<1.0	<10	4.4	--	--	
2/3/1998	--	165.14	9.49	--	155.65	<50	<0.50	<1.0	<1.0	<1.0	<10	4.3	--	--	
5/28/1998	--	165.14	13.57	--	151.57	4,900	1,500	34	180	311	<10	4.1	--	--	
12/30/1998	--	165.14	14.65	--	150.49	--	--	--	--	--	--	--	--	--	
2/2/1999	--	165.14	12.56	--	152.58	100	<1.0	<1.0	<1.0	<1.0	9.1	--	--	--	
5/10/1999	--	165.14	13.36	--	151.78	--	--	--	--	--	--	--	--	--	
8/24/1999	--	165.14	13.50	--	151.64	--	--	--	--	--	--	--	--	--	
11/3/1999	--	165.14	18.48	--	146.66	--	--	--	--	--	--	--	--	--	
3/1/2000	--	165.14	9.59	--	155.55	<50	<0.5	0.58	<0.5	0.54	2.9	--	--	--	
4/21/2000	--	165.14	13.52	--	151.62	--	--	--	--	--	--	--	--	--	
7/31/2000	--	165.14	14.04	--	151.10	--	--	--	--	--	--	--	--	--	
11/20/2000	--	165.14	15.89	--	149.25	--	--	--	--	--	--	--	--	--	
2/18/2001	--	165.14	11.88	--	153.26	560	161	2.38	6.11	13	5.67	--	--	--	
6/7/2001	--	165.14	15.30	--	149.84	--	--	--	--	--	--	--	--	--	
9/5/2001	--	165.14	19.32	--	145.82	--	--	--	--	--	--	--	--	--	

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

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-5 Cont.															
11/30/2001	--	165.14	17.44	--	147.70	--	--	--	--	--	--	--	--	--	
2/20/2002	--	165.14	13.88	--	151.26	4,200	940	18.7	98.2	176	55.6	--	--	--	
6/20/2002	--	165.14	16.20	--	148.94	--	--	--	--	--	--	--	--	--	
9/11/2002	--	165.14	19.15	--	145.99	--	--	--	--	--	--	--	--	--	
11/12/2002	--	165.14	19.01	--	146.13	390	55	0.89	3.4	3.5	210	--	--	--	
1/29/2003	--	165.14	16.33	--	148.81	7,900	1,400	34	220	350	82	--	--	--	n
5/22/2003	--	165.14	14.35	--	150.79	9,900	2,300	91	400	690	<50	--	--	--	
7/28/2003	--	165.14	18.90	--	146.24	3,200	690	14	81	100	120	--	--	--	p
11/18/2003	--	165.14	--	--	--	--	--	--	--	--	--	--	--	--	Well inaccessible e, q
02/23/2004	P	165.14	12.21	--	152.93	7,500	1,500	100	190	350	100	--	SEQM	6.7	
05/04/2004	P	165.14	17.12	--	148.02	5,900	1,500	57	200	280	42	--	SEQM	6.6	
08/04/2004	P	165.14	19.05	--	146.09	<2,500	<25	<25	<25	<25	390	--	SEQM	6.69	
11/10/2004	P	165.14	16.95	--	148.19	870	80	<5.0	<5.0	<5.0	530	--	SEQM	7.5	
02/15/2005	P	165.14	12.75	--	152.39	1,600	330	8.0	37	67	260	--	SEQM	7.2	
05/16/2005	P	165.14	15.46	--	149.68	<500	<5.0	<5.0	<5.0	<5.0	370	--	SEQM	6.7	
08/17/2005	P	165.14	17.00	--	148.14	7,000	1,000	17	110	130	51	--	SEQM	6.6	
11/18/2005	P	165.14	18.33	--	146.81	1,900	91	<5.0	33	29	340	--	SEQM	7.3	
02/07/2006	P	165.14	10.27	--	154.87	2,100	590	9.6	86	110	200	--	SEQM	6.7	
5/19/2006	P	165.14	13.08	--	152.06	3,200	720	9.7	150	170	44	--	SEQM	6.8	
8/23/2006	P	165.14	17.02	--	148.12	1,400	69	<5.0	20	24	230	--	TAMC	7.11	
11/15/2006	P	165.14	18.30	--	146.84	1,100	24	<2.5	10	8.6	490	0.85	TAMC	6.82	
2/14/2007	P	165.14	13.16	--	151.98	680	110	<2.5	16	11	420	2.54	TAMC	7.24	
5/22/2007	P	165.14	15.42	--	149.72	2,800	660	8.8	74	100	26	1.41	TAMC	7.03	
8/15/2007	P	165.14	18.80	--	146.34	2,800	50	<10	26	29	280	3.81	TAMC	7.14	
11/8/2007	P	165.14	18.55	SHEEN	146.59	3,800	77	<2.5	46	35	270	1.08	TAMC	7.23	t
2/20/2008	P	165.14	12.21	--	152.93	2,500	530	<5.0	75	62	43	2.01	CEL	6.84	
MW-6															
7/9/1990	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	165.40	--	--	--	0.17	2.6	7	4.9	26	--	--	--	--	
3/7/1991	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-6 Cont.															
4/1/1991	--	165.40	11.79	--	153.61	--	--	--	--	--	--	--	--	--	
6/27/1991	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e
9/27/1991	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e
12/18/1991	--	165.40	--	--	--	--	1.3	22	--	2.7	--	--	--	--	
7/3/1992	--	165.40	17.77	--	147.63	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
10/5/1992	--	165.40	19.46	--	145.94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
1/13/1993	--	165.40	11.34	--	154.06	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
4/23/1993	--	165.40	12.92	--	152.48	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
7/12/1993	--	165.40	17.36	--	148.04	<50	<0.5	<0.5	<0.5	0.7	<5.0	--	--	--	i
10/21/1993	--	165.40	19.98	--	145.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
1/21/1994	--	165.40	18.10	--	147.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	i
4/20/1994	--	165.40	18.68	--	146.72	<50	<0.5	<0.5	<0.5	<0.5	17.4	2	--	--	i
8/1/1994	--	165.40	18.90	--	146.50	<50	<0.5	<0.5	<0.5	<0.5	8.66	1.5	--	--	i
12/23/1994	--	165.40	12.94	--	152.46	--	--	--	--	--	--	--	--	--	
1/26/1995	--	165.40	10.46	--	154.94	<50	<0.5	<0.5	<0.5	<1	--	7.3	--	--	
6/8/1995	--	165.40	16.84	--	148.56	--	--	--	--	--	--	--	--	--	
8/22/1995	--	165.40	19.48	--	145.92	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.7	--	--	d
10/27/1995	--	165.40	20.39	--	145.01	--	--	--	--	--	--	--	--	--	
1/25/1996	--	165.40	12.24	--	153.16	<50	<0.50	<0.50	<0.50	<1.0	9.9	--	--	--	
4/19/1996	--	165.40	13.90	--	151.50	--	--	--	--	--	--	--	--	--	
7/23/1996	--	165.40	17.83	--	147.57	--	--	--	--	--	--	--	--	--	
11/11/1996	--	165.40	18.90	--	146.50	<50	<0.5	<1.0	<1.0	<1.0	<10	7.7	--	--	
1/21/1997	--	165.40	11.97	--	153.43	--	--	--	--	--	--	--	--	--	
4/29/1997	--	165.40	17.04	--	148.36	<50	<0.5	<1.0	<1.0	<1.0	<10	4.5	--	--	
8/21/1997	--	165.40	18.58	--	146.82	--	--	--	--	--	--	--	--	--	
11/5/1997	--	165.40	19.17	--	146.23	70	<0.5	<1.0	<1.0	<1.0	85	4.3	--	--	
2/3/1998	--	165.40	9.87	--	155.53	--	--	--	--	--	--	--	--	--	
5/28/1998	--	165.40	13.38	--	152.02	<50	<0.5	<1.0	<1.0	<1.0	<10	3.7	--	--	
12/30/1998	--	165.40	14.45	--	150.95	--	--	--	--	--	--	--	--	--	
2/2/1999	--	165.40	18.29	--	147.11	--	--	--	--	--	--	--	--	--	
5/10/1999	--	165.40	17.49	--	147.91	--	--	--	--	--	--	--	--	--	

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-6 Cont.															
8/24/1999	--	165.40	17.61	--	147.79	--	--	--	--	--	--	--	--	--	
11/3/1999	--	165.40	16.26	--	149.14	--	--	--	--	--	--	--	--	--	
3/1/2000	--	165.40	17.43	--	147.97	--	--	--	--	--	--	--	--	--	
4/21/2000	--	165.40	13.32	--	152.08	--	--	--	--	--	--	--	--	--	
7/31/2000	--	165.40	13.46	--	151.94	--	--	--	--	--	--	--	--	--	
11/20/2000	--	165.40	14.78	--	150.62	--	--	--	--	--	--	--	--	--	
2/18/2001	--	165.40	11.33	--	154.07	--	--	--	--	--	--	--	--	--	
6/7/2001	--	165.40	16.36	--	149.04	--	--	--	--	--	--	--	--	--	
9/5/2001	--	165.40	18.61	--	146.79	--	--	--	--	--	--	--	--	--	
11/30/2001	--	165.40	15.20	--	150.20	--	--	--	--	--	--	--	--	--	
2/20/2002	--	165.40	12.74	--	152.66	--	--	--	--	--	--	--	--	--	
6/20/2002	--	165.40	16.68	--	148.72	--	--	--	--	--	--	--	--	--	
9/11/2002	--	165.40	18.38	--	147.02	--	--	--	--	--	--	--	--	--	
11/12/2002	--	165.40	18.78	--	146.62	--	--	--	--	--	--	--	--	--	
1/29/2003	--	165.40	14.45	--	150.95	--	--	--	--	--	--	--	--	--	n
5/22/2003	--	165.40	14.36	--	151.04	--	--	--	--	--	--	--	--	--	
7/28/2003	--	165.40	18.43	--	146.97	--	--	--	--	--	--	--	--	--	p
11/18/2003	--	165.40	17.48	--	147.92	--	--	--	--	--	--	--	--	--	
02/23/2004	--	165.40	11.54	--	153.86	--	--	--	--	--	--	--	--	--	
05/04/2004	--	165.40	16.58	--	148.82	--	--	--	--	--	--	--	--	--	
08/04/2004	--	165.40	18.12	--	147.28	--	--	--	--	--	--	--	--	--	
11/10/2004	--	165.40	15.75	--	149.65	--	--	--	--	--	--	--	--	--	
02/15/2005	--	165.40	12.50	--	152.90	--	--	--	--	--	--	--	--	--	
05/16/2005	P	165.40	11.51	--	153.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.0	
08/17/2005	--	165.40	16.85	--	148.55	--	--	--	--	--	--	--	--	--	
11/18/2005	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e
02/07/2006	P	165.40	9.93	--	155.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.1	
5/19/2006	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e
8/23/2006	--	165.40	16.35	--	149.05	--	--	--	--	--	--	--	--	--	
11/15/2006	--	165.40	17.42	--	147.98	--	--	--	--	--	--	--	--	--	
2/14/2007	P	165.40	12.03	--	153.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.07	TAMC	7.73	

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

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-6 Cont.															
5/22/2007	--	165.40	15.11	--	150.29	--	--	--	--	--	--	--	--	--	--
8/15/2007	--	165.40	18.08	--	147.32	--	--	--	--	--	--	--	--	--	--
11/8/2007	--	165.40	17.79	--	147.61	--	--	--	--	--	--	--	--	--	--
2/20/2008	P	165.40	11.81	--	153.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.29	CEL	7.10	
MW-7															
7/9/1990	--	167.61	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	167.61	--	--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--	167.61	19.04	--	148.57	--	--	0.4	0.3	2.4	--	--	--	--	
4/1/1991	--	167.61	15.18	--	152.43	--	--	--	--	--	--	--	--	--	
6/27/1991	--	167.61	--	--	--	70	17	4	0.8	2.2	--	--	--	--	
9/27/1991	--	167.61	--	--	--	--	0.4	--	--	0.4	--	--	--	--	
12/18/1991	--	167.61	--	--	--	--	0.7	2.9	0.8	3.3	--	--	--	--	
7/3/1992	--	167.61	20.28	--	147.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
10/5/1992	--	167.61	21.56	--	146.05	<50	<0.5	<0.5	<0.5	1.5	--	--	--	--	
1/13/1993	--	167.61	15.41	--	152.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
4/23/1993	--	167.61	15.84	--	151.77	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
7/12/1993	--	167.61	19.84	--	147.77	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	i
10/21/1993	--	167.61	21.61	--	146.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
1/21/1994	--	167.61	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	c
1/21/1994	--	167.61	20.49	--	147.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	i
4/20/1994	--	167.61	20.54	--	147.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.5	--	--	i
8/1/1994	--	167.61	20.99	--	146.62	<50	0.7	<0.5	<0.5	<0.5	<5.0	1.9	--	--	i
12/23/1994	--	167.61	15.00	--	152.61	--	--	--	--	--	--	--	--	--	
1/26/1995	--	167.61	14.69	--	152.92	<50	<0.5	<0.5	<0.5	<1	--	7	--	--	
6/8/1995	--	167.61	19.87	--	147.74	--	--	--	--	--	--	--	--	--	
8/22/1995	--	167.61	21.49	--	146.12	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.4	--	--	d
10/27/1995	--	167.61	22.53	--	145.08	--	--	--	--	--	--	--	--	--	
1/25/1996	--	167.61	17.21	--	150.40	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	
4/19/1996	--	167.61	17.09	--	150.52	--	--	--	--	--	--	--	--	--	
7/23/1996	--	167.61	21.02	--	146.59	--	--	--	--	--	--	--	--	--	

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

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-7 Cont.															
11/11/1996	--	167.61	22.03	--	145.58	<50	<0.5	<1.0	<1.0	<1.0	<10	7.8	--	--	
1/21/1997	--	167.61	15.06	--	152.55	--	--	--	--	--	--	--	--	--	
4/29/1997	--	167.61	20.11	--	147.50	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	--	--	
8/21/1997	--	167.61	21.59	--	146.02	--	--	--	--	--	--	--	--	--	
11/5/1997	--	167.61	20.05	--	147.56	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	--	--	
2/3/1998	--	167.61	9.97	--	157.64	--	--	--	--	--	--	--	--	--	
5/28/1998	--	167.61	13.52	--	154.09	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	--	--	
12/30/1998	--	167.61	18.33	--	149.28	--	--	--	--	--	--	--	--	--	
2/2/1999	--	167.61	12.33	--	155.28	--	--	--	--	--	--	--	--	--	
5/10/1999	--	167.61	13.52	--	154.09	--	--	--	--	--	--	--	--	--	
8/24/1999	--	167.61	14.01	--	153.60	--	--	--	--	--	--	--	--	--	
11/3/1999	--	167.61	19.91	--	147.70	--	--	--	--	--	--	--	--	--	
3/1/2000	--	167.61	19.89	--	147.72	--	--	--	--	--	--	--	--	--	
4/21/2000	--	167.61	17.94	--	149.67	--	--	--	--	--	--	--	--	--	
7/31/2000	--	167.61	17.33	--	150.28	--	--	--	--	--	--	--	--	--	
11/20/2000	--	167.61	18.41	--	149.20	--	--	--	--	--	--	--	--	--	
2/18/2001	--	167.61	15.13	--	152.48	--	--	--	--	--	--	--	--	--	
6/7/2001	--	167.61	18.75	--	148.86	--	--	--	--	--	--	--	--	--	
9/5/2001	--	167.61	20.48	--	147.13	--	--	--	--	--	--	--	--	--	
11/30/2001	--	167.61	20.11	--	147.50	--	--	--	--	--	--	--	--	--	
2/20/2002	--	167.61	18.40	--	149.21	--	--	--	--	--	--	--	--	--	
6/20/2002	--	167.61	18.62	--	148.99	--	--	--	--	--	--	--	--	--	
9/11/2002	--	167.61	20.05	--	147.56	--	--	--	--	--	--	--	--	--	
11/12/2002	--	167.61	21.13	--	146.48	--	--	--	--	--	--	--	--	--	n
1/29/2003	--	167.61	19.10	--	148.51	--	--	--	--	--	--	--	--	--	
5/22/2003	--	167.61	18.83	--	148.78	--	--	--	--	--	--	--	--	--	
7/28/2003	--	167.61	19.88	--	147.73	--	--	--	--	--	--	--	--	--	p
11/18/2003	--	168.08	20.50	--	147.58	--	--	--	--	--	--	--	--	--	
11/18/2003	--	167.61	20.50	--	147.11	--	--	--	--	--	--	--	--	--	s
02/23/2004	--	168.08	15.92	--	152.16	--	--	--	--	--	--	--	--	--	
05/04/2004	--	168.08	18.86	--	149.22	--	--	--	--	--	--	--	--	--	

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

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-7 Cont.															
08/04/2004	--	168.08	19.10	--	148.98	--	--	--	--	--	--	--	--	--	
11/10/2004	--	168.08	20.25	--	147.83	--	--	--	--	--	--	--	--	--	
02/15/2005	--	168.08	16.37	--	151.71	--	--	--	--	--	--	--	--	--	
05/16/2005	--	168.08	--	--	--	--	--	--	--	--	--	--	--	--	e
08/17/2005	--	168.08	19.74	--	148.34	--	--	--	--	--	--	--	--	--	
11/18/2005	--	168.08	20.82	--	147.26	--	--	--	--	--	--	--	--	--	
02/07/2006	P	168.08	14.26	--	153.82	<500	<5.0	<5.0	<5.0	<5.0	270	--	SEQM	7.3	
5/19/2006	--	168.08	16.51	--	151.57	--	--	--	--	--	--	--	--	--	
8/23/2006	--	168.08	20.30	--	147.78	--	--	--	--	--	--	--	--	--	
11/15/2006	--	168.08	20.85	--	147.23	--	--	--	--	--	--	--	--	--	
2/14/2007	P	168.08	16.57	--	151.51	520	<5.0	<5.0	<5.0	<5.0	740	3.08	TAMC	7.30	v
5/22/2007	--	168.08	18.40	--	149.68	--	--	--	--	--	--	--	--	--	
8/15/2007	--	168.08	20.85	--	147.23	--	--	--	--	--	--	--	--	--	
11/8/2007	--	168.08	20.41	--	147.67	--	--	--	--	--	--	--	--	--	
2/20/2008	P	168.08	15.90	--	152.18	<50	<0.50	<0.50	<0.50	<0.50	700	4.34	CEL	7.09	
MW-8															
3/7/1991	--	165.74	16.72	--	149.02	2.7	780	450	64	310	--	--	--	--	
4/1/1991	--	165.74	12.54	--	153.20	15,000	3,600	2,600	410	1,900	--	--	--	--	
6/27/1991	--	165.74	--	--	--	12,000	3,400	1,100	240	750	--	--	--	--	
9/27/1991	--	165.74	--	--	--	41	5,700	5,200	1,100	4,300	--	--	--	--	
12/18/1991	--	165.74	--	--	--	3.2	990	150	120	250	--	--	--	--	
7/3/1992	--	165.74	18.78	--	146.96	72,000	19,000	32,000	3,000	15,000	--	--	--	--	
10/5/1992	--	165.74	20.48	--	145.26	--	--	--	--	--	--	--	--	--	
1/13/1993	--	165.74	12.87	--	152.87	--	--	--	--	--	--	--	--	--	
4/23/1993	--	165.74	13.90	--	151.84	--	--	--	--	--	--	--	--	--	t
7/12/1993	--	165.74	18.30	--	147.44	--	--	--	--	--	--	--	--	--	t
10/21/1993	--	165.74	21.91	--	142.88	--	--	--	--	--	--	--	--	--	
10/2/93-12/9/98	--	165.74	--	0.12	--	--	--	--	--	--	--	--	--	--	
1/21/1994	--	165.74	19.12	--	146.62	--	--	--	--	--	--	--	--	--	
4/20/1994	--	165.74	19.28	--	146.46	26,000	1,700	4,100	960	4,000	632	1.1	--	--	i

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

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-8 Cont.															
8/1/1994	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	--
12/23/1994	--	165.74	13.81	--	151.93	--	--	--	--	--	--	--	--	--	--
1/26/1995	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	--
6/8/1995	--	165.74	17.82	--	147.92	--	--	--	--	--	--	--	--	--	--
8/22/1995	--	165.74	19.41	--	146.33	--	--	--	--	--	--	--	--	--	--
10/27/1995	--	165.74	20.47	--	145.27	--	--	--	--	--	--	--	--	--	--
1/25/1996	--	165.74	13.35	--	152.39	--	--	--	--	--	--	--	--	--	--
4/19/1996	--	165.74	14.40	--	151.34	--	--	--	--	--	--	--	--	--	--
7/23/1996	--	165.74	18.35	--	147.39	--	--	--	--	--	--	--	--	--	--
11/11/1996	--	165.74	19.41	--	146.33	--	--	--	--	--	--	--	--	--	--
1/21/1997	--	165.74	12.29	--	153.45	--	--	--	--	--	--	--	--	--	--
4/29/1997	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
8/21/1997	--	165.74	19.61	--	146.13	240,000	1,100	9,300	4,100	31,100	<1000	5.2	--	--	--
11/5/1997	--	165.74	19.45	--	146.29	57,000	790	2,700	2,300	15,200	<1000	5	--	--	--
2/3/1998	--	165.74	9.33	--	156.41	--	--	--	--	--	--	--	--	--	--
2/4/1998	--	165.74	--	--	--	94,000	570	1,500	2,100	15,200	<2500	5.5	--	--	--
5/28/1998	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
12/30/1998	--	165.74	15.48	--	150.26	120,000	460	2,300	2,200	15,000	150	--	--	--	--
2/2/1999	--	165.74	18.29	--	147.45	82,000	450	2,200	3,700	26,000	<500	--	--	--	--
5/10/1999	--	165.74	15.62	--	150.12	28,000	740	1,800	1,100	5,800	<25	--	--	--	--
8/24/1999	--	165.74	18.41	--	147.33	75,000	530	1,400	3,300	21,000	150	--	--	--	--
11/3/1999	--	165.74	18.71	--	147.03	70,000	600	1,300	3,600	20,500	750	--	--	--	--
3/1/2000	--	165.74	19.37	--	146.37	27,000	1,600	1,200	2,600	6,600	120	--	--	--	--
4/21/2000	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
7/31/2000	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
11/20/2000	--	165.74	17.42	--	148.32	1,300,000	1,400	1,700	20,000	16,000	5,700	--	--	--	--
2/18/2001	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
6/7/2001	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
9/5/2001	--	165.74	21.45	0.04	144.25	--	--	--	--	--	--	--	--	--	j
11/30/2001	--	165.74	18.31	--	147.43	--	--	--	--	--	--	--	--	--	h
12/6/2001	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e

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

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-10 Cont.															
7/2/2004	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
08/04/2004	--	167.01	18.90	--	148.11	--	--	--	--	--	--	--	--	--	
09/22/2004	NP	167.01	20.60	--	146.41	--	--	--	--	--	--	--	--	--	
11/10/2004	P	167.01	17.95	--	149.06	9,800	470	91	450	1,700	230	--	SEQM	7.3	t
01/13/2005	--	167.01	12.21	--	154.80	--	--	--	--	--	--	--	--	--	
02/15/2005	P	167.01	14.19	--	152.82	30,000	510	330	1,800	7,200	77	--	SEQM	7.2	
05/16/2005	P	167.01	13.85	--	153.16	37,000	540	730	2,100	9,200	<50	--	SEQM	6.7	
08/17/2005	P	167.01	19.01	--	148.00	15,000	1,100	420	1,200	4,100	<50	--	SEQM	6.7	
11/18/2005	P	167.01	19.95	--	147.06	12,000	1,200	240	550	1,300	16	--	SEQM	6.8	
02/07/2006	P	167.01	12.28	SHEEN	154.73	22,000	340	580	1,300	4,500	73	--	SEQM	6.8	t
5/19/2006	P	167.01	15.12	--	151.89	40,000	690	430	2,600	4,900	<25	--	SEQM	6.9	t
8/23/2006	P	167.01	20.00	--	147.01	13,000	1,500	540	1,200	3,000	<10	--	TAMC	6.97	
11/15/2006	P	167.01	19.84	--	147.17	3,800	700	22	67	160	54	0.65	TAMC	6.78	
2/14/2007	P	167.01	14.94	SHEEN	152.07	37,000	350	120	2,400	8,100	120	2.12	TAMC	7.05	t
5/22/2007	P	167.01	17.17	SHEEN	149.84	13,000	810	130	750	2,200	15	0.06	TAMC	7.10	t
8/15/2007	P	167.01	20.30	SHEEN	146.71	4,400	550	38	160	310	<10	3.09	TAMC	7.09	
11/8/2007	P	167.01	19.58	SHEEN	147.43	13,000	970	130	480	1,600	6.0	1.47	TAMC	7.95	t
2/20/2008	--	167.01	14.27	0.05	152.78	--	--	--	--	--	--	--	--	--	b, j
QC-2															
10/5/1992	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f
1/13/1993	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f,i
4/23/1993	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f,i
7/12/1993	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f
10/21/1993	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f
1/21/1994	--	168.01	--	--	--	<50	<0.5	2.1	<0.5	2.1	--	--	--	--	f
4/20/1994	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f
12/23/1994	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	f
1/26/1995	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	f
6/8/1995	--	168.01	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	--	f
8/22/1995	--	168.01	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	d,f

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
QC-2 Cont.															
10/30/1995	--	168.01	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	f
1/25/1996	--	168.01	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	f
4/19/1996	--	168.01	--	--	--	<50	<0.5	<1	<1	<1	<10	--	--	--	f
RW-1															
7/9/1990	--	168.01	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	168.01	--	--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--	168.01	17.62	--	150.39	--	--	--	--	--	--	--	--	--	t
4/1/1991	--	168.01	14.40	--	153.61	--	--	--	--	--	--	--	--	--	
6/27/1991	--	168.01	--	--	--	--	--	--	--	--	--	--	--	--	
9/27/1991	--	168.01	--	--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--	168.01	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--	168.01	20.66	--	147.35	--	--	--	--	--	--	--	--	--	t
10/5/1992	--	168.01	23.34	--	144.67	--	--	--	--	--	--	--	--	--	
1/13/1993	--	168.01	16.59	--	151.42	--	--	--	--	--	--	--	--	--	
4/23/1993	--	168.01	16.17	--	151.84	--	--	--	--	--	--	--	--	--	
7/12/1993	--	168.01	20.18	--	147.83	--	--	--	--	--	--	--	--	--	
10/21/1993	--	168.01	25.70	--	142.31	--	--	--	--	--	--	--	--	--	
1/21/1994	--	168.01	21.24	--	146.77	--	--	--	--	--	--	--	--	--	
4/20/1994	--	168.01	32.20	--	135.81	--	--	--	--	--	--	--	--	--	
8/1/1994	--	168.01	21.70	--	146.31	29,000	580	950	300	7,800	1,200	1.1	--	--	d
12/23/1994	--	168.01	16.02	--	151.99	1,300	25	8.6	1.4	69	616	1.8	--	--	i
1/26/1995	--	168.01	13.78	--	154.23	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	
1/26/1995	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	c
6/8/1995	--	168.01	20.05	--	147.96	1,300	130	<1.0	<1.0	36	--	--	--	--	
8/22/1995	--	168.01	21.74	--	146.27	3,300	230	13	4.9	280	<25	6.6	--	--	d
8/22/1995	--	168.01	--	--	--	2,800	210	9.3	4.3	250	<25	--	--	--	c
10/27/1995	--	168.01	32.00	--	136.01	--	--	--	--	--	--	--	--	--	
10/30/1995	--	168.01	--	--	--	240	1.6	<1.0	<1.0	<2.0	630	--	--	--	c
10/30/1995	--	168.01	--	--	--	230	1.4	<1.0	<1.0	<2.0	650	6.9	--	--	
1/25/1996	--	168.01	15.41	--	152.60	15,000	3,400	930	330	2,500	5,300	--	--	--	

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
RW-1 Cont.															
4/19/1996	--	168.01	--	--	--	33,000	5,600	3,200	1,700	8,800	15,000	--	--	--	c
4/19/1996	--	168.01	16.83	--	151.18	35,000	5,500	3,300	1,700	9,400	14,000	7.6	--	--	
7/23/1996	--	168.01	--	--	--	47,000	3,700	2,500	930	5,300	35,000	--	--	--	c
7/23/1996	--	168.01	20.76	--	147.25	46,000	3,600	2,300	900	5,100	36,000	7.4	--	--	
11/11/1996	--	168.01	--	--	--	31,000	2,900	1,000	860	4,600	22,000	--	--	--	c
11/11/1996	--	168.01	21.73	--	146.28	34,000	3,000	1,200	880	4,600	22,000	8.3	--	--	
1/21/1997	--	168.01	14.20	--	153.81	260	40	16	2.7	34	1,500	6.1	--	--	
1/21/1997	--	168.01	--	--	--	270	42	17	2.7	36	1,500	--	--	--	c
4/29/1997	--	168.01	19.15	--	148.86	32,000	3,100	590	1,300	6,000	46,000	5.3	--	--	
8/21/1997	--	168.01	20.67	--	147.34	7,600	730	58	370	1,780	9,500	4.7	--	--	
11/5/1997	--	168.01	21.01	--	147.00	39,000	2,300	86	1,300	3,840	56,000	4.5	--	--	
2/3/1998	--	168.01	10.68	--	157.33	3,400	31	11	29	161	3,200	5.1	--	--	
5/28/1998	--	168.01	15.55	--	152.46	2,000	90	15	60	305	2,700	4.3	--	--	
12/30/1998	--	168.01	17.35	--	150.66	--	--	--	--	--	--	--	--	--	
2/2/1999	--	168.01	14.58	--	153.43	82,000	2,300	120	2,000	3,200	51000/78000	--	--	--	g
5/10/1999	--	168.01	16.00	--	152.01	15,000	620	88	340	660	61,000	--	--	--	
8/24/1999	--	168.01	20.00	--	148.01	52,000	1,400	170	2,200	2,900	37,000	--	--	--	
11/3/1999	--	168.01	20.39	--	147.62	17,000	2,500	86	1,500	970	54,000	--	--	--	
3/1/2000	--	168.01	12.97	--	155.04	17,000	580	78	790	1,100	13,000	--	--	--	
4/21/2000	--	168.01	16.02	--	151.99	31,000	2,100	100	1,400	1,100	39,000	--	--	--	
7/31/2000	--	168.01	21.89	--	146.12	47,000	1,300	170	2,700	2,300	30,000	--	--	--	
11/20/2000	--	168.01	19.15	--	148.86	--	--	--	--	--	--	--	--	--	h
2/18/2001	--	168.01	15.35	--	152.66	14,000	589	89	600	712	13,000	--	--	--	
6/7/2001	--	168.01	19.09	--	148.92	28,000	1,140	68.2	504	530	19,100	--	--	--	
9/5/2001	--	168.01	22.06	0.02	145.93	--	--	--	--	--	--	--	--	--	j
11/30/2001	--	168.01	19.53	--	148.48	20,000	405	39.4	545	740	8,260	--	--	--	
2/20/2002	--	168.01	15.99	--	152.02	13,000	469	29	434	655	7,240	--	--	--	
6/20/2002	--	168.01	19.31	--	148.70	--	--	--	--	--	--	--	--	--	j,l
9/11/2002	--	168.01	21.07	0.03	146.91	--	--	--	--	--	--	--	--	--	j
11/12/2002	--	168.01	20.92	0.02	147.07	--	--	--	--	--	--	--	--	--	j
1/29/2003	--	168.01	16.31	0.04	151.66	--	--	--	--	--	--	--	--	--	j,n

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
RW-1 Cont.															
5/22/2003	--	168.01	16.68	--	151.33	--	--	--	--	--	--	--	--	--	j,t
6/24/2003	--	168.01	19.76	0.07	148.18	--	--	--	--	--	--	--	--	--	o
7/28/2003	--	168.01	21.04	0.04	146.93	--	--	--	--	--	--	--	--	--	j
8/12/2003	--	168.01	21.41	<0.01	146.60	--	--	--	--	--	--	--	--	--	o,t
9/12/2003	--	168.01	21.10	0.07	146.84	--	--	--	--	--	--	--	--	--	o
10/3/2003	--	168.01	--	0.03	--	--	--	--	--	--	--	--	--	--	
11/18/2003	P	168.01	20.10	<0.01	147.91	12,000	770	<50	320	250	6,100	--	SEQM	6.6	o,p
12/31/2003	--	168.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
02/23/2004	--	168.01	14.35	0.01	153.67	--	--	--	--	--	--	--	--	--	
3/18/2004	--	168.01	--	0.09	--	--	--	--	--	--	--	--	--	--	
4/13/2004	--	168.01	--	0.02	--	--	--	--	--	--	--	--	--	--	
05/04/2004	--	168.01	19.58	0.02	148.45	--	--	--	--	--	--	--	--	--	
6/2/2004	--	168.01	--	0.05	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	168.01	--	0.11	--	--	--	--	--	--	--	--	--	--	
08/04/2004	--	168.01	22.05	0.05	146.00	--	--	--	--	--	--	--	--	--	
09/22/2004	NP	168.01	21.28	0.06	146.78	--	--	--	--	--	--	--	--	--	
10/26/2004	--	168.01	--	0.01	--	--	--	--	--	--	--	--	--	--	
11/10/2004	--	168.01	18.56	0.02	149.47	--	--	--	--	--	--	--	--	--	
12/27/2004	--	168.01	--	0.03	--	--	--	--	--	--	--	--	--	--	
01/13/2005	--	168.01	12.51	0.01	155.51	--	--	--	--	--	--	--	--	--	
02/15/2005	--	168.01	15.24	0.03	152.79	--	--	--	--	--	--	--	--	--	
03/07/2005	--	168.01	11.90	0.02	156.13	--	--	--	--	--	--	--	--	--	
4/29/2005	--	168.01	--	0.03	--	--	--	--	--	--	--	--	--	--	
05/16/2005	--	168.01	14.39	0.02	153.64	--	--	--	--	--	--	--	--	--	j
6/21/2005	--	168.01	--	0.03	--	--	--	--	--	--	--	--	--	--	
7/7/2005	--	168.01	--	0.06	--	--	--	--	--	--	--	--	--	--	
08/17/2005	--	168.01	19.91	0.03	148.12	--	--	--	--	--	--	--	--	--	j
9/6/2005	--	168.01	--	0.03	--	--	--	--	--	--	--	--	--	--	
10/4/2005	--	168.01	--	0.07	--	--	--	--	--	--	--	--	--	--	
11/18/2005	--	168.01	20.36	0.07	147.71	--	--	--	--	--	--	--	--	--	b, j
12/30/2005	--	168.01	--	0.04	--	--	--	--	--	--	--	--	--	--	

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

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Product Thickness (feet)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
RW-1 Cont.															
1/24/2006	--	168.01	--	0.01	--	--	--	--	--	--	--	--	--	--	
02/07/2006	--	168.01	12.87	0.01	155.15	--	--	--	--	--	--	--	--	--	j
3/30/2006	--	168.01	--	0.02	--	--	--	--	--	--	--	--	--	--	
5/19/2006	--	168.01	15.87	0.04	152.17	--	--	--	--	--	--	--	--	--	b
8/23/2006	--	168.01	20.50	0.07	147.56	--	--	--	--	--	--	--	--	--	b, j
11/15/2006	--	168.01	20.52	0.07	147.54	--	--	--	--	--	--	--	--	--	b, j
2/14/2007	--	168.01	15.44	0.04	152.60	--	--	--	--	--	--	--	--	--	b, j
5/22/2007	--	168.01	17.78	SHEEN	150.23	--	--	--	--	--	--	--	--	--	j, l
8/15/2007	--	168.01	20.80	0.02	147.23	--	--	--	--	--	--	--	--	--	b, j
11/8/2007	--	168.01	20.32	0.01	147.70	--	--	--	--	--	--	--	--	--	b, j
2/20/2008	--	168.01	14.55	0.02	153.48	--	--	--	--	--	--	--	--	--	b, j

SYMBOLS AND ABBREVIATIONS:

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

FOOTNOTES:

a = Casing elevations surveyed to the nearest 0.01 ft MSL.
b = GWE adjusted assuming a specific gravity of 0.75 for free product (FP).
c = Blind duplicate.
d = A copy of the documentation for this data is included in Appendix C of Alisto report 10-024-10-001.
e = Well inaccessible.
f = Travel blank.
g = EPA Methods 8020/8260 used.
h = Unable to sample.
i = A copy of the documentation for this data can be found in Blaine Tech Services report 010607-M-3. MTBE data for the January 13, 1993 and April 23, 1993 sampling events has been destroyed. No chromatograms could be located for MTBE data from wells MW-5, MW-6, and MW-7, sampled on October 21, 1993.
j = Well not sampled due to presence of SPH and nature of the product.
k = Could not purge and sample; waste drum full.
l = Value represents the depth to product. Unable to determine depth to water, product disabled the interface probe.
m = Discrete p[ak @ C6-7.
n = TPH-g, BTEX, and MTBE analyzed by EPA method 8260 B beginning on 1st quarter 2003 sampling event (1/29/03).
o = Groundwater samples are not collected during FP bailing event.
p = Well not included in the monthly FP bailing program.
q = Well not sampled in November 2003 due to the presence of a pile of gravel dumped over the well box.
r = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
s = MW-7 TOC elevation raised +0.47 ft during well repair on January 20, 2004.
t = Sheen in well.
u = Calib. verif. is within method limits but outside contract limits.
v = GRO result partly due to individual peak(s) in quantitation range.

NOTES:

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

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

Values for DO and pH were obtained through field measurements.

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
5/19/2006	<6,000	<400	86	<10	<10	<10	<10	<10	
MW-2									
1/29/2003	<4000	<2000	820	<50	<50	<50	<50	<50	
5/22/2003	<10000	<2000	1,000	<50	<50	<50	--	--	
7/28/2003	<20000	<4000	1,700	<100	<100	<100	<100	<100	a
11/18/2003	<5,000	<1,000	500	<25	<25	<25	--	--	
02/23/2004	<25,000	<5,000	790	<120	<120	<120	<120	<120	
05/04/2004	<50,000	<10,000	780	<250	<250	<250	<250	<250	
08/04/2004	<50,000	<10,000	430	<250	<250	<250	<250	<250	
11/10/2004	<5,000	<1,000	310	<25	<25	<25	<25	<25	
02/15/2005	<20,000	<4,000	690	<100	<100	<100	<100	<100	
05/16/2005	<50,000	<10,000	560	<250	<250	<250	<250	<250	
08/17/2005	<20,000	<4,000	480	<100	<100	<100	<100	<100	
11/18/2005	<20,000	<4,000	340	<100	<100	<100	<100	<100	b
02/07/2006	<60,000	<4,000	440	<100	<100	<100	160	<100	
5/19/2006	<60,000	<4,000	430	<100	<100	<100	<100	<100	b
8/23/2006	<60,000	<4,000	480	<100	<100	<100	<100	<100	
11/15/2006	<60,000	<4,000	400	<100	<100	<100	<100	<100	
2/14/2007	<60,000	<4,000	810	<100	<100	<100	<100	<100	
5/22/2007	<150,000	<10,000	1,000	<250	<250	<250	<250	<250	
8/15/2007	<30,000	2,400	260	<50	<50	<50	<50	<50	b
11/8/2007	<30,000	2,800	240	<50	<50	<50	<50	<50	
MW-3									
1/29/2003	<40	<20	0.76	<50	<50	<50	<50	<50	
02/23/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/15/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	u
2/20/2008	<100	<10	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4									

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
1/29/2003	<40	<20	66	<0.50	<0.50	<0.50	<0.50	<0.50	
02/23/2004	<100	<20	65	<0.50	<0.50	<0.50	<0.50	<0.50	
02/15/2005	<100	<20	62	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	29	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	61	<0.50	<0.50	<0.50	<0.50	<0.50	
2/20/2008	<100	<10	36	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5									
1/29/2003	<400	<200	82	<5.0	<5.0	<5.0	<5.0	<5.0	
5/22/2003	<10000	<2000	<50	<50	<50	<50	--	--	
7/28/2003	<2000	<400	120	<10	<10	<10	<10	<10	
11/18/2003	--	--	--	--	--	--	--	--	Well inaccessible
02/23/2004	<5,000	<1,000	100	<25	<25	<25	38	<25	
05/04/2004	<5,000	<1,000	42	<25	<25	<25	<25	<25	
08/04/2004	<5,000	<1,000	390	<25	<25	<25	<25	<25	
11/10/2004	<1,000	<200	530	<5.0	<5.0	5.5	<5.0	<5.0	
02/15/2005	<1,000	<200	260	<5.0	<5.0	<5.0	<5.0	<5.0	
05/16/2005	<1,000	<200	370	<5.0	<5.0	<5.0	<5.0	<5.0	
08/17/2005	<1,000	<200	51	<5.0	<5.0	<5.0	<5.0	<5.0	
11/18/2005	<1,000	<200	340	<5.0	<5.0	<5.0	<5.0	<5.0	b
02/07/2006	<3,000	<200	200	<5.0	<5.0	<5.0	<5.0	<5.0	
5/19/2006	<3,000	<200	44	<5.0	<5.0	<5.0	<5.0	<5.0	b
8/23/2006	<3,000	<200	230	<5.0	<5.0	<5.0	<5.0	<5.0	
11/15/2006	<1,500	<100	490	<2.5	<2.5	4.2	<2.5	<2.5	
2/14/2007	<1,500	<100	420	<2.5	<2.5	3.6	<2.5	<2.5	
5/22/2007	<1,500	<100	26	<2.5	<2.5	<2.5	<2.5	<2.5	
8/15/2007	<6,000	<400	280	<10	<10	<10	<10	<10	
11/8/2007	<1,500	310	270	<2.5	<2.5	<2.5	<2.5	<2.5	
2/20/2008	<1,000	<100	43	<5.0	<5.0	<5.0	<5.0	<5.0	
MW-6									
05/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-6 Cont.									
02/07/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/20/2008	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7									
02/07/2006	<3,000	<200	270	<5.0	<5.0	<5.0	<5.0	<5.0	
2/14/2007	<3,000	<200	740	<5.0	<5.0	9.6	<5.0	<5.0	
2/20/2008	<100	13	700	<0.50	<0.50	12	0.60	<0.50	
MW-8									
1/29/2003	<4000	<2000	<500	<50	<50	<50	<50	<50	
5/22/2003	<5000	<1000	--	<25	<25	<25	--	--	
7/28/2003	<20000	<4000	2,100	<100	<100	<100	<100	<100	
11/18/2003	<2,000	<400	1,700	<10	<10	20	--	--	a,b
02/23/2004	<10,000	<2,000	110	<50	<50	<50	<50	<50	
05/04/2004	<5,000	<1,000	2,000	<25	<25	33	<25	<25	
11/10/2004	<5,000	<1,000	74	<25	<25	<25	<25	<25	
02/15/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
05/16/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
08/17/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
11/18/2005	<10,000	<2,000	140	<50	<50	<50	<50	<50	b
02/07/2006	<3,000	<200	7.5	<5.0	<5.0	<5.0	<5.0	<5.0	
5/19/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	b
8/23/2006	<15,000	<1,000	82	<25	<25	<25	<25	<25	
11/15/2006	<15,000	<1,000	110	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	82	<25	<25	<25	<25	<25	
5/22/2007	<6,000	<400	11	<10	<10	<10	<10	<10	
8/15/2007	<6,000	<400	28	<10	<10	<10	<10	<10	
11/8/2007	<15,000	<1,000	27	<25	<25	<25	<25	<25	
MW-9									
5/22/2003	<10000	<2000	<50	<50	<50	<50	--	--	
7/28/2003	<100000	<20000	<500	<500	<500	<500	<500	<500	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
11/18/2003	<2,000	<400	45	<10	<10	<10	--	--	a,b
02/23/2004	<50,000	<10,000	<250	<250	<250	<250	<250	<250	
05/04/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/10/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
02/15/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
05/16/2005	<2,000	<400	<10	<10	<10	<10	<10	<10	
08/17/2005	<2,500	<500	<12	<12	<12	<12	<12	<12	
11/18/2005	<1,000	<200	19	<5.0	<5.0	<5.0	<5.0	<5.0	b
02/07/2006	<3,000	<200	<5.0	<5.0	<5.0	5.4	<5.0	<5.0	
8/23/2006	<30,000	<2,000	<50	<50	<50	<50	<50	<50	
11/15/2006	<15,000	<1,000	26	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
5/22/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
8/15/2007	<1,500	<100	27	<2.5	<2.5	<2.5	<2.5	<2.5	b
11/8/2007	<3,000	<200	52	<5.0	<5.0	<5.0	<5.0	<5.0	
MW-10									
5/22/2003	<10000	<2000	300	<50	<50	<50	--	--	
11/18/2003	<10,000	<2,000	<50	<50	<50	<50	--	--	b
02/23/2004	<20,000	<4,000	180	<100	<100	<100	<100	<100	
05/04/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/10/2004	<5,000	<1,000	230	<25	<25	<25	<25	<25	b
02/15/2005	<10,000	<2,000	77	<50	<50	<50	<50	<50	
05/16/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
08/17/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
11/18/2005	<2,500	<500	16	<12	<12	<12	<12	<12	b
02/07/2006	<15,000	<1,000	73	<25	<25	<25	<25	<25	
5/19/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	b
8/23/2006	<6,000	<400	<10	<10	<10	<10	<10	<10	
11/15/2006	<6,000	<400	54	<10	<10	<10	<10	<10	
2/14/2007	<6,000	<400	120	<10	<10	<10	<10	<25	
5/22/2007	<6,000	<400	15	<10	<10	<10	<10	<10	

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

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-10 Cont.									
8/15/2007	<6,000	<400	<10	<10	<10	<10	<10	<10	
11/8/2007	<3,000	<200	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	
RW-1									
11/18/2003	<10,000	11,000	6,100	<50	<50	160	--	--	a,b

SYMBOLS AND ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above specified laboratory reporting limit

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

µg/L = Micrograms per Liter

FOOTNOTES:

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

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

NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

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 Ground-Water Flow Direction and Gradient
Station #11132, 3201 35th Ave, Oakland, CA**

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
5/19/2006	South	0.003 to 0.005
8/23/2006	Southwest	0.01
11/15/2006	South	0.004
2/14/2007	Southeast	0.01
5/22/2007	South	0.005
8/15/2007	South-Southwest	0.008
11/8/2007	Southwest	0.006
2/20/2008	Southeast	0.008

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 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
MW-1	7/9/1990	0.22	2.000	2.000
MW-1	12/21/1990	0.58	2.000	4.000
MW-1	3/7/1991	0.00	--	4.000
MW-1	6/27/1991	0.18	2.000	6.000
MW-1	9/27/1991	0.27	2.000	8.000
MW-1	12/18/1991	0.28	2.000	10.000
MW-1	4/1/1991	0.15	2.000	12.000
MW-1	7/3/1992	0.27	2.000	14.000
MW-1	10/5/1992	0.24	2.000	16.000
MW-1	1/13/1993	0.24	2.000	18.000
MW-1	4/23/1993	0.42	2.000	20.000
MW-1	7/12/1993	0.49	--	20.000
MW-1	10/21/1993	1.09	2.000	22.000
MW-1	1/21/1994	0.76	--	22.000
MW-1	4/20/1994	1.80	2.000	24.000
MW-1	8/1/1994	0.35	--	24.000
MW-1	1/26/1995	1.10	3.000	27.000
MW-1	6/8/95-6/28/95	1.25	0.700	27.700
MW-1	8/22/1995	0.85	0.150	27.850
MW-1	10/30/95-12/23/95	0.69	0.110	27.960
MW-1	1/25/96-2/16/95	1.40	1.080	29.040
MW-1	4/19/1996	1.22	0.750	29.790
MW-1	7/23/1996	0.89	0.000	29.790
MW-1	9/4/1996	--	0.350	30.140
MW-1	11/11/1996	0.89	0.980	31.120
MW-1	1/21/1997	0.90	0.200	31.320
MW-1	4/29/1997	0.85	0.250	31.570
MW-1	8/21/1997	--	0.150	31.720
MW-1	11/2/97-12/9/97	0.87	2.030	33.750
MW-1	2/3/1998	0.32	0.250	34.000
MW-1	2/4/1998	--	--	34.000
MW-1	5/28/1998	0.17	--	34.000
MW-1	12/30/1998	0.08	0.020	34.020
MW-1	2/2/1999	0.03	0.010	34.030
MW-1	5/10/1999	0.03	0.010	34.040
MW-1	8/24/1999	0.06	0.010	34.050
MW-1	11/3/1999	0.36	0.050	34.100
MW-1	3/1/2000	0.23	*	34.100
MW-1	4/21/2000	0.33	0.070	34.170
MW-1	7/31/2000	0.53	0.130	34.300
MW-1	11/20/2000	0.37	0.500	34.800
MW-1	2/18/2001	0.13	0.050	34.850
MW-1	2/26/2001	0.15	0.150	35.000
MW-1	6/7/2001	0.00	--	35.000
MW-1	9/5/2001	0.35	--	35.000
MW-1	11/30/2001	0.41	0.260	35.260
MW-1	12/6/2001	0.27	0.040	35.300
MW-1	2/20/2002	0.15	0.020	35.320
MW-1	6/20/2002	0.34	0.070	35.390
MW-1	9/11/2002	0.40	0.060	35.450
MW-1	11/12/2002	0.37	0.060	35.510
MW-1	1/29/2003	0.30	0.320	35.830

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
MW-1	5/22/2003	0.20	0.140	35.970
MW-1	6/24/2003	0.35	0.070	36.040
MW-1	7/28/2003	0.35	0.080	36.050
MW-1	8/12/2003	0.23	0.040	36.090
MW-1	9/12/2003	0.24	0.040	36.130
MW-1	10/3/2003	0.23	0.040	36.170
MW-1	11/18/2003	0.25	0.040	36.210
MW-1	12/31/2003	0.15	0.020	36.230
MW-1	2/2/2004	0.15	0.020	36.250
MW-1	2/23/2004	0.09	0.030	36.280
MW-1	3/18/2004	0.09	0.010	36.290
MW-1	4/13/2004	0.24	0.040	36.330
MW-1	5/4/2004	0.16	0.030	36.360
MW-1	6/2/2004	0.08	0.010	36.370
MW-1	7/2/2004	0.28	0.040	36.410
MW-1	8/4/2004	0.10	0.080	36.490
MW-1	9/22/2004	0.20	0.030	36.520
MW-1	10/26/2004	0.12	0.020	36.540
MW-1	11/10/2004	0.14	0.020	36.560
MW-1	12/27/2004	0.08	0.010	36.570
MW-1	1/13/2005	0.03	0.005	36.575
MW-1	2/15/2005	0.04	0.006	36.581
MW-1	3/7/2005	0.01	0.007	36.588
MW-1	4/29/2005	0.01	0.002	36.589
MW-1	5/16/2005	0.02	0.003	36.592
MW-1	6/21/2005	0.01	0.002	36.594
MW-1	7/7/2005	0.18	0.029	36.623
MW-1	8/17/2005	0.08	0.013	36.636
MW-1	9/6/2005	0.02	0.003	36.639
MW-1	10/4/2005	0.12	0.020	36.659
MW-1	9/6/2005	0.06	0.010	36.669
MW-1	12/30/2005	0.03	0.005	36.674
MW-1	1/24/2006	0.00	0.000	36.674
MW-1	2/7/2006	0.01	0.002	36.676
MW-1	3/30/2006	0.00	0.000	36.676
MW-1	4/21/2006	0.00	0.000	36.676
MW-1	5/19/2006	<0.01 (SHEEN)	0.000	36.676
MW-1	6/22/2006	0.04	0.006	36.682
MW-1	7/31/2006	0.04	0.006	36.688
MW-1	8/23/2006	0.14	0.022	36.710
MW-1	9/28/2006	0.35	0.056	36.766
MW-1	11/15/2006	0.18	--	36.766
MW-1	2/14/2007	0.17	*	36.766
MW-1	3/14/2007	0.04	****	36.766
MW-1	4/10/2007	0.15	****	36.766
MW-1	5/22/2007	0.01	****	36.766
MW-1	6/26/2007	0.05	****	36.766
MW-1	7/19/2007	0.00	--	36.766
MW-1	8/15/2007	0.01	2.0	38.766
MW-1	9/18/2007	0.10	2.0	40.766
MW-1	10/17/2007	0.01	4.0	44.766
MW-1	11/8/2007	0.01	3.0	47.766

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
MW-1	12/12/2007	0.01	1.5	49.266
MW-1	1/14/2008	0.01	3.0	52.266
MW-1	2/27/2008	--	2.0	54.266
MW-8	11/02/93-12/09/98	0.12	1.620	1.620
MW-8	9/5/2001	0.04	--	1.660
MW-8	8/12/2003	<0.01 (SHEEN)	--	1.660
MW-8	10/3/2003	<0.01 (SHEEN)	--	1.660
MW-8	11/18/2003	<0.01 (SHEEN)	--	1.660
MW-8	12/31/2003	<0.01 (SHEEN)	--	1.660
MW-8	2/2/2004	<0.01 (SHEEN)	--	1.660
MW-8	2/23/2004	<0.01 (SHEEN)	--	1.660
MW-8	3/18/2004	<0.01 (SHEEN)	--	1.660
MW-8	4/13/2004	<0.01 (SHEEN)	--	1.660
MW-8	5/4/2004	<0.01 (SHEEN)	--	1.660
MW-8	6/2/2004	<0.01 (SHEEN)	--	1.660
MW-8	7/2/2004	--	--	1.660
MW-8	8/4/2004	0.05	0.110	1.770
MW-8	9/22/2004	--	--	1.770
MW-8	10/26/2004	--	--	1.770
MW-8	11/10/2004	--	--	1.770
MW-8	12/26/2004	--	--	1.770
MW-8	1/13/2005	--	--	1.770
MW-8	2/15/2005	--	--	1.770
MW-8	3/7/2005	--	--	1.770
MW-8	4/29/2005	--	--	1.770
MW-8	5/16/2005	--	--	1.770
MW-8	6/21/2005	--	--	1.770
MW-8	7/7/2005	--	--	1.770
MW-8	8/17/2005	--	--	1.770
MW-8	9/6/2005	--	--	1.770
MW-8	1/24/2006	--	--	1.770
MW-8	2/7/2006	--	--	1.770
MW-8	3/30/2006	--	--	1.770
MW-8	4/21/2006	--	--	1.770
MW-8	5/19/2006	<0.01 (Sheen)	--	1.770
MW-8	6/22/2006	--	--	1.770
MW-8	7/31/2006	--	--	1.770
MW-8	8/23/2006	--	--	1.770
MW-8	9/28/2006	--	--	1.770
MW-8	11/15/2006	<0.01 (Sheen)	--	1.770
MW-8	2/14/2007	<0.01 (Sheen)	--	1.770
MW-8	5/22/2007	<0.01 (Sheen)	--	1.770
MW-8	6/26/2007	--	--	1.770
MW-8	7/19/2007	--	--	1.770
MW-8	8/15/2007	<0.01 (Sheen)	--	1.770
MW-8	9/18/2007	--	--	1.770
MW-8	10/17/2007	--	--	1.770
MW-8	11/8/2007	--	--	1.770
MW-8	12/12/2007	--	--	1.770
MW-8	1/14/2008	NM	NM	1.770
MW-8	2/27/2008	NM	NM	1.770

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
MW-9	11/2/93-4/29/97	0.10	<0.1	0.880
MW-9	11/5/1997	0.01	<0.1	0.880
MW-9	1/29/2003	0.10	0.190	1.070
MW-9	6/24/2003	NM	NM	1.070
MW-9	7/28/2003	<0.01 (SHEEN)	--	1.070
MW-9	8/12/2003	<0.01 (SHEEN)	--	1.070
MW-9	9/12/2003	<0.01 (SHEEN)	--	1.070
MW-9	10/3/2003	0.01	0.002	1.072
MW-9	11/18/2003	<0.01 (SHEEN)	--	1.072
MW-9	12/31/2003	<0.01 (SHEEN)	--	1.072
MW-9	2/2/2004	<0.01 (SHEEN)	--	1.072
MW-9	2/23/2004	<0.01 (SHEEN)	--	1.072
MW-9	3/18/2004	<0.01 (SHEEN)	--	1.072
MW-9	4/13/2004	<0.01 (SHEEN)	--	1.072
MW-9	5/4/2004	<0.01 (SHEEN)	--	1.072
MW-9	6/2/2004	<0.01 (SHEEN)	--	1.072
MW-9	7/2/2004	--	--	1.072
MW-9	8/4/2004	0.03	0.053	1.125
MW-9	9/22/2004	--	--	1.125
MW-9	10/26/2004	--	--	1.125
MW-9	11/10/2004	--	--	1.125
MW-9	12/27/2004	--	--	1.125
MW-9	1/13/2005	--	--	1.125
MW-9	2/15/2005	--	--	1.125
MW-9	3/7/2005	--	--	1.125
MW-9	4/29/2005	--	--	1.125
MW-9	5/16/2005	--	--	1.125
MW-9	6/21/2005	--	--	1.125
MW-9	7/7/2005	--	--	1.125
MW-9	8/17/2005	--	--	1.125
MW-9	9/6/2005	--	--	1.125
MW-9	1/24/2006	--	--	1.125
MW-9	2/7/2006	SHEEN	--	1.125
MW-9	3/30/2006	--	--	1.125
MW-9	4/21/2006	--	--	1.125
MW-9	5/19/2006	NM	--	1.125
MW-9	6/22/2006	--	--	1.125
MW-9	7/31/2006	--	--	1.120
MW-9	8/23/2006	--	--	1.120
MW-9	9/28/2006	--	--	1.120
MW-9	11/15/2006	<0.01 (Sheen)	--	1.120
MW-9	2/14/2007	<0.01 (Sheen)	--	1.120
MW-9	5/22/2007	<0.01 (Sheen)	--	1.120
MW-9	6/26/2007	--	--	1.120
MW-9	7/19/2007	--	--	1.120
MW-9	8/15/2007	<0.01 (Sheen)	--	1.120
MW-9	9/18/2007	--	--	1.120
MW-9	10/17/2007	--	--	1.120
MW-9	11/8/2007	--	--	1.120
MW-9	12/12/2007	--	--	1.120
MW-9	1/14/2008	--	--	1.120
MW-9	2/27/2008	--	--	1.120

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
MW-10	9/7/93-7/23/96	--	10.520	10.520
MW-10	9/4/1996	0.76	0.100	10.620
MW-10	11/11/1996	--	0.200	10.820
MW-10	1/21/1997	--	<0.03	10.850
MW-10	4/29/1997	--	0.040	10.890
MW-10	4/29/1997	--	0.040	10.930
MW-10	12/2/1997	0.03	<0.1	10.930
MW-10	2/3/1998	--	<0.1	10.930
MW-10	9/5/2001	0.01	--	10.930
MW-10	11/12/2002	0.07	0.010	10.940
MW-10	1/29/2003	0.03	0.030	10.970
MW-10	6/24/2003	0.04	0.010	10.980
MW-10	7/28/2003	0.04	0.020	11.000
MW-10	8/12/2003	<0.01 (SHEEN)	--	11.000
MW-10	10/3/2003	<0.01 (SHEEN)	--	11.000
MW-10	11/18/2003	<0.01 (SHEEN)	--	11.000
MW-10	12/31/2003	<0.01 (SHEEN)	--	11.000
MW-10	2/2/2004	<0.01 (SHEEN)	--	11.000
MW-10	2/23/2004	<0.01 (SHEEN)	--	11.000
MW-10	3/18/2004	<0.01 (SHEEN)	--	11.000
MW-10	4/13/2004	<0.01 (SHEEN)	--	11.000
MW-10	5/4/2004	<0.01 (SHEEN)	--	11.000
MW-10	6/2/2004	<0.01 (SHEEN)	--	11.000
MW-10	7/2/2004	<0.01 (SHEEN)	--	11.000
MW-10	8/4/2004	0.08	0.110	11.110
MW-10	9/22/2004	--	--	11.110
MW-10	10/26/2004	--	--	11.110
MW-10	11/10/2004	--	--	11.110
MW-10	12/27/2004	--	--	11.110
MW-10	1/13/2005	<0.01 (SHEEN)	--	11.110
MW-10	2/15/2005	--	--	11.110
MW-10	3/7/2005	--	--	11.110
MW-10	4/29/2005	--	--	11.110
MW-10	5/16/2005	--	--	11.110
MW-10	6/21/2005	--	--	11.110
MW-10	7/7/2005	--	--	11.110
MW-10	8/17/2005	--	--	11.110
MW-10	9/6/2005	--	--	11.110
MW-10	1/24/2006	--	--	11.110
MW-10	2/7/2006	SHEEN	--	11.110
MW-10	3/30/2006	--	--	11.110
MW-10	4/21/2006	--	--	11.110
MW-10	5/19/2006	<0.01 (SHEEN)	--	11.110
MW-10	6/22/2006	--	--	11.110
MW-10	7/31/2006	--	--	11.110
MW-10	8/23/2006	--	--	11.110
MW-10	9/28/2006	--	--	11.110
MW-10	11/15/2006	<0.01 (Sheen)	--	11.110
MW-10	2/14/2007	<0.01 (Sheen)	--	11.110
MW-10	5/22/2007	<0.01 (Sheen)	--	11.110
MW-10	6/26/2007	<0.01 (Sheen)	--	11.110
MW-10	7/19/2007	--	--	11.110

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
MW-10	8/15/2007	<0.01 (Sheen)	--	11.110
MW-10	9/18/2007	--	--	11.110
MW-10	10/17/2007	--	--	11.110
MW-10	11/8/2007	--	--	11.110
MW-10	12/12/2007	--	--	11.110
MW-10	1/14/2008	--	--	11.110
MW-10	2/27/2008	--	--	11.110
RW-1	9/5/2001	0.02	--	0.000
RW-1	6/20/2002	**	--	0.000
RW-1	9/11/2002	0.03	0.040	0.040
RW-1	11/12/2002	0.02	0.030	0.070
RW-1	1/29/2003	0.04	0.070	0.140
RW-1	6/24/2003	0.07	0.040	0.180
RW-1	7/28/2003	0.04	0.020	0.200
RW-1	8/12/2003	<0.01 (SHEEN)	--	0.200
RW-1	9/12/2003	0.07	0.100	0.300
RW-1	10/3/2003	0.03	0.040	0.340
RW-1	11/18/2003	<0.01 (SHEEN)	--	0.340
RW-1	12/31/2003	<0.01 (SHEEN)	--	0.340
RW-1	2/23/2004	0.01	0.005	0.345
RW-1	3/18/2004	0.09	0.120	0.465
RW-1	4/13/2004	0.02	0.030	0.495
RW-1	5/4/2004	0.02	0.030	0.525
RW-1	6/2/2004	0.05	0.020	0.545
RW-1	7/2/2004	0.11	0.162	0.707
RW-1	8/4/2004	0.05	0.159	0.865
RW-1	9/22/2004	0.06	0.088	0.953
RW-1	10/26/2004	0.01	0.010	0.963
RW-1	11/10/2004	0.02	0.030	0.993
RW-1	12/27/2004	0.03	0.010	1.003
RW-1	1/13/2005	0.01	0.004	1.007
RW-1	2/15/2005	0.03	0.044	1.051
RW-1	3/7/2005	0.02	0.029	1.080
RW-1	4/29/2005	0.03	0.044	1.124
RW-1	5/16/2005	0.02	0.029	1.154
RW-1	6/21/2005	0.03	0.013	1.167
RW-1	7/7/2005	0.06	0.092	1.259
RW-1	8/17/2005	0.03	0.044	1.304
RW-1	9/6/2005	0.03	0.044	1.348
RW-1	10/4/2005	0.07	0.100	1.448
RW-1	11/18/2005	0.07	0.010	1.458
RW-1	12/30/2005	0.04	0.006	1.464
RW-1	1/24/2006	0.01	0.015	1.479
RW-1	2/7/2006	0.01	0.015	1.494
RW-1	3/30/2006	0.02	0.030	1.524
RW-1	4/21/2006	0.00	0.000	1.524
RW-1	5/19/2006	0.04	0.058	1.582
RW-1	6/22/2006	0.03	0.044	1.626
RW-1	7/31/2006	0.12	0.176	1.802
RW-1	8/23/2006	0.07	0.103	1.905
RW-1	9/28/2006	0.07	0.103	2.008
RW-1	11/15/2006	0.07	--	2.008

Table 4
Free Product Removal
Former BP Service Station #11132
3201 35th Avenue, Oakland, CA

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (feet)	PRODUCT REMOVED (gallons)	CUMULATIVE PRODUCT REMOVED (gallons)
RW-1	2/14/2007	0.04	*	2.008
RW-1	3/14/2007	0.05	****	2.008
RW-1	4/10/2007	0.10	****	2.008
RW-1	5/22/2007	**	****	2.008
RW-1	6/26/2007	0.05	****	2.008
RW-1	7/19/2007	<0.01 (Sheen)	--	2.008
RW-1	8/15/2007	0.02	2.0	4.008
RW-1	9/18/2007	0.03	2.0	6.008
RW-1	10/17/2007	0.01	4.0	10.008
RW-1	11/8/2007	0.01	2.5	12.508
RW-1	12/12/2007	0.01	2.5	15.008
RW-1	1/14/2008	0.01	4.0	19.008
RW-1	2/27/2008	--	1.0	20.008

Free Product Removed this Quarter = 10.000

Total Free Product = 88.274

NM = Unable to gauge free product thickness or remove product because the well was inaccessible.

* No hazardous waste drum on-site or drum was full, therefore no product was removed.

** Indeterminate thickness of product. The nature of product is unknown, very viscous.

*** Data prior to 1998 is incomplete, and amounts removed are estimates based on quarter reports from the previous consultants.

**** Absorbent socks used to collect product. Unknown amount of product recovered.

The data within this table collected prior to June 2006 was provided to BAI by RM and their previous consultants. BAI has not verified the accuracy of this information.

APPENDIX A

**STRATUS GROUND-WATER SAMPLING DATA PACKAGE
(INCLUDES FIELD DATA SHEETS, LABORATORY ANALYTICAL REPORT WITH
CHAIN-OF-CUSTODY DOCUMENTATION, AND FIELD PROCEDURES)**



3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

March 7, 2008

Mr. Rob Miller
Broadbent & Associates, Inc.
2000 Kirman Avenue
Reno, NV 89502

Re: Groundwater Sampling and Monthly Gauging Data Package, BP Service Station
No. 11132, located at 3201 35th Avenue, Oakland, California.

General Information

Data Submittal Prepared / Reviewed by: Sandy Hayes / Jay Johnson
Phone Number: (530) 676-6000

On-Site Supplier Representative: Vince Zalutka
Monthly Gauging Date: January 14, 2008
Arrival: Not noted *Departure:* Not noted

Weather Conditions: Not noted

Unusual Field Conditions: None

Scope of Work Performed: Monthly Gauging and LPH Removal

Variations from Work Scope: Wells MW-1, MW-10 and RW-1 were gauged and the LPH was removed and put in the hazardous waste drum located onsite. A car was parked over well MW-8 and was inaccessible. Well MW-9 was missing lid and filled with sand. The technician dug out the sand to obtain the depth to water level and replaced the lid.

On-Site Supplier Representatives: Tony Hill and Josh Slater

Sampling Date: February 20, 2008

Arrival: 04:50 *Departure:* 08:40

Weather Conditions: Rain

Unusual Field Conditions: None

Scope of Work Performed: Quarterly monitoring and sampling

Variations from Work Scope: Wells MW-1, MW-8, MW-9, MW-10 and RW-1 are gauged and bailed for LPH monthly. Field data sheets are submitted immediately following monthly gauging and LPH removal.

On-Site Supplier Representative: Vince Zalutka

Monthly Gauging Date: February 27, 2008

Arrival: Not noted

Departure: Not noted

Weather Conditions: Not noted

Unusual Field Conditions: None

Scope of Work Performed: Monthly Gauging and LPH Removal

Variations from Work Scope: Wells MW-1, MW-9, MW-10 and RW-1 were gauged and the LPH was removed and put in the hazardous waste drum located onsite. Well RW-1 contained a mixture of H₂O and grease. A car was parked over well MW-8 and was inaccessible.

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include field data sheets, non-hazardous waste data form, chain of custody documentation, certified analytical results and field procedures for groundwater sampling. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

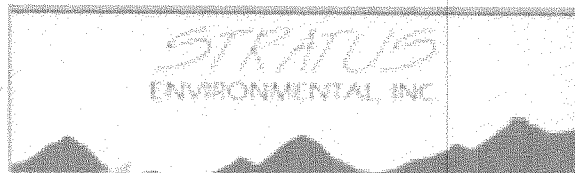
Jay R. Johnson, P.G.
Project Manager



Attachments:

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results
- Field Procedures for Groundwater Sampling

cc: Mr. Paul Supple, BP/ARCO



Product Purge

ORIGINAL

Global ID: _____
 Site Address: 3201 35th.
 City: Oakland, CA
 Sampled By: VinceZ

Site Number: 11132
 Project No: _____
 Project PM: _____
 Date: 1-14-08

Signature: V. Zambello

Water Level Data					Purge Volume Calculations					Sample Record	Field Data
Well ID	DTP	DTW	Top of Screen feet	Qtr. Meas. Depth of Well feet	Well Diameter (Inches)	Multiplier Value (B)	(MIX) Water/Product Gallons Purged	Bailer	Other	Sample I.D.	
RW-1	15.11	15.12			6	4.4	4 gal	X		RW-1	
MW-1	16.79	16.80			2	0.5	3 gal	X		MW-1	
MW-8		Covered	by a	car	2	N/A					
MW-9		13.25	missing	lid	2	N/A	8 1/4" pull type		Currently filled with sand		
MW-10		14.46			2	N/A					

TEST ; GRO-BTEX, 5-Oxys, Ethanol
 (A) Casing water Column
 Depth wtr. Depth to Bottom

Multiplier Values
 2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4



Site Address 3201 35TH AVE
 City OAKLAND
 Sampled by: JS/TH
 Signature J. Stratus

Site Number ARCO 11132
 Project Number E 11132-04
 Project PM J. Johnson
 DATE 2-20-08

Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
* MW-1	0707	16.50	16.52			2	0.5	Product		+				N/A	MW-1	N/A	N/A
MW-2	0734	15.14	15.20			2	0.5	Product		+				N/A	MW-2	N/A	N/A
MW-3	0720		13.58	34.21	20.63	2	0.5	10.31	10.5		+			15.48	MW-3	0817	2.58
MW-4	0714		17.74	39.58	21.84	2	0.5	10.92	11		+			18.51	MW-4	0733	2.13
MW-5	0534		12.21	31.30	19.09	2	0.5	9.54	9.5		+			12.95	MW-5	0550	2.01
MW-6	0723		11.81	34.28	22.47	2	0.5	11.23	11.5		+			12.20	MW-6	0822	1.29
MW-7	0616		15.90	34.71	18.81	2	0.5	9.40	9.5		+			18.58	MW-7	0632	4.34
* MW-8	VEHICLE OVER WELL					2	0.5	VEHICLE OVER WELL						N/A	MW-8	N/A	N/A
* MW-9	0656	12.76	12.79			2	0.5	Product		+				N/A	MW-9	N/A	N/A
* MW-10	0601	14.22	14.27			2	0.5	Product		+				N/A	MW-10	N/A	N/A
* RW-1	0703	14.53	14.55			6	4.4	Product		+				N/A	RW-1	N/A	N/A

* WELL CAPS REMOVED 15MIN PRIOR

52

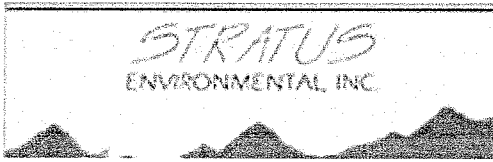
Multiplier
 2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4

Please refer to groundwater sampling field procedures
 pH/Conductivity/temperature Meter - Oakton Model PC-10
 DO Meter - Oakton 300 Series (DO is always measured before purge)

CALIBRATION DATE

pH 2-20
 Conductivity 2-20
 DO 2-20

* NO DRUM ON SITE



Site Address _____
 City _____
 Sampled By: JS/TH

Site Number AR10 11132
 Project No _____
 Project PM _____
 Date 2-20-08

Well ID <u>MW-5</u> <u>0550</u>					Well ID <u>MW-7</u> <u>0632</u>				
purge start time <u>BAILER</u> <u>ODOR</u>					purge start time <u>BAILER</u> <u>NO ODOR</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>18.7</u>	<u>6.84</u>	<u>1520</u>	<u>Ø</u>	time	<u>18.4</u>	<u>7.10</u>	<u>751</u>	<u>Ø</u>
time	<u>18.8</u>	<u>6.83</u>	<u>1547</u>	<u>5</u>	time	<u>18.9</u>	<u>7.03</u>	<u>802</u>	<u>5</u>
time	<u>19.0</u>	<u>6.84</u>	<u>1514</u>	<u>9.5</u>	time	<u>17.8</u>	<u>7.09</u>	<u>809</u>	<u>9.5</u>
time					time				
purge stop time					purge stop time				
Well ID <u>MW-4</u> <u>0733</u>					Well ID <u>MW-6</u> <u>0822</u>				
purge start time <u>bailer</u> <u>No odor</u>					purge start time <u>BAILER</u> <u>No odor</u>				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>18.3</u>	<u>6.93</u>	<u>756</u>	<u>Ø</u>	time	<u>18.1</u>	<u>7.17</u>	<u>539</u>	<u>Ø</u>
time	<u>19.7</u>	<u>6.93</u>	<u>772</u>	<u>5.5</u>	time	<u>19.2</u>	<u>7.20</u>	<u>544</u>	<u>6</u>
time	<u>19.1</u>	<u>6.93</u>	<u>765</u>	<u>11</u>	time	<u>18.9</u>	<u>7.10</u>	<u>555</u>	<u>11.5</u>
time					time				
purge stop time					purge stop time				
Well ID <u>MW-3</u> <u>0817</u>					Well ID _____				
Purge start time <u>BAILER</u> <u>ODOR</u>					Purge start time _____				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	<u>20.2</u>	<u>7.00</u>	<u>656</u>	<u>Ø</u>	time				
time	<u>20.5</u>	<u>7.01</u>	<u>662</u>	<u>5</u>	time				
time	<u>20.3</u>	<u>7.06</u>	<u>624</u>	<u>10.5</u>	time				
time					time				
purge stop time					purge stop time				
Well ID _____					Well ID _____				
purge start time _____					purge start time _____				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				

NO. 668606

NON-HAZARDOUS WASTE DATA FORM

SITE: 5201 35TH AVE
OAKLAND, CA

EPA I.D. NO. NOT REQUIRED

NAME BP WEST COAST PRODUCTS LLC ARCO # 11132

PROFILE NO.

ADDRESS P.O. BOX 80249
RANCHO SANTA MARGARITA

CITY, STATE, ZIP CA 92688

PHONE NO. ()

CONTAINERS: No. _____ VOLUME 52,991 WEIGHT _____

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____

WASTE DESCRIPTION: NON-HAZARDOUS WATER GENERATING PROCESS: WELL PURGING/DECON WATER

COMPONENTS OF WASTE			COMPONENTS OF WASTE		
	PPM	%		PPM	%
1. <u>WATER</u>	<u>99-100%</u>		5. _____		
2. <u>TBN</u>	<u><1%</u>		6. _____		
3. _____			7. <u>RESID</u>		
4. _____			8. _____		

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

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Larry Moothart BEST for BP
TYPED OR PRINTED FULL NAME & SIGNATURE DATE 2-20-08

TO BE COMPLETED BY GENERATOR

TRANSPORTER

NAME Transporter #1 STRATUS ENVIRONMENTAL Transporter #2

EPA I.D. NO.

ADDRESS 3330 CAMERON PARK DR

SERVICE ORDER NO. _____

CITY, STATE, ZIP CAMERON PARK, CA 95682

PICK UP DATE _____

PHONE NO. 530-676-2031

J. Sloter J. Sloter
TYPED OR PRINTED FULL NAME & SIGNATURE DATE 2-20-08

TRUCK, UNIT, I.D. NO. _____

TSD FACILITY

NAME INSTRAT, INC

EPA I.D. NO.

ADDRESS 1105 AIRPORT RD #C

DISPOSAL METHOD

CITY, STATE, ZIP RIO VISTA, CA 94571

LANDFILL OTHER _____

PHONE NO. 530-753-1829

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	
C/Q		RT/CD	HWDF	NONE

DISCREPANCY



A BP affiliated company

Chain of Custody Record

Project Name: ARCO 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 11132
 State or Lead Regulatory Agency: _____
 Requested Due Date (mm/dd/yy): STD / TAT

On-site Time: <u>0450</u>	Temp: <u>40's</u>
Off-site Time: <u>0840</u>	Temp: <u>50's</u>
Sky Conditions: <u>RAIN</u>	
Meteorological Events: _____	
Wind Speed: _____	Direction: _____

Lab Name: <u>Cal Science</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>7440 Lincoln Way</u>	BP/AR Facility Address: <u>3201 35th Ave., Oakland</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Garden Grove Ca 92841-1427</u>	Site Lat/Long: _____	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Linda Scharpenberg</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E11132-04</u>
Tele/Fax: <u>714-895-5494 714-895-7501</u>	Enfos Project No.: <u>G07TS-0039</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04-Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments *Oxy = MTBE, TAME, ETBE, DIPE, TBA		
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRD 8015M	BTEX	S.Oxy	1,2 DCA	ETHANOL		EDB	
1	MW-3	0817	2/20	X			6						X	X	X	X	X	X			
2	MW-4	0733																			
3	MW-5	0550																			
4	MW-6	0822																			
5	MW-7	0632																			
6																					
7																					
8	TB 11132 022008	0530		X			3													HOLD	
9																					HOLD
10																					

Sampler's Name: <u>IS/TH</u>	Relinquished By / Affiliation: <u>J. Natta / STRATUS</u>	Date: <u>2-20-08</u>	Time: <u>0945</u>	Accepted By / Affiliation: <u>[Signature] / CEL</u>	Date: <u>2-20-08</u>	Time: <u>0945</u>
Sampler's Company: <u>STRATUS ENVIRONMENTAL</u>						
Shipment Date: <u>2-20-08</u>						
Shipment Method: <u>STRATUS</u>						
Shipment Tracking No: _____						

Special Instructions: Please cc results to rmiller@broadbentinc.com

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



Site Address 3201 35th Ave
 City Oakland CA
 Sampled by: Vince Z
 Signature Vince Zebitka

Site Number 11132
 Project Number _____
 Project PM _____
 DATE 2-27-08

Mix is H₂O & Grease

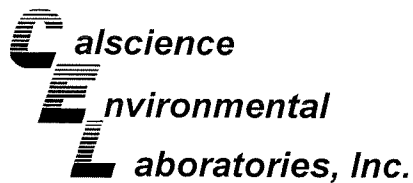
Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D.	Sample Time	DO (mg/L)
RW-1	0607		13.84			6			1 mix		X						
MW-1	0625		15.72			2			2 1/2		X						
MW-2	0545		14.25			2	—	—	1		X						
MW-8	—	—	—	—	—	2	—	—	—	X							
MW-9	0540		11.97			2	—	—	—	X							
MW-10	0536		13.38			2	—	—	—	X							

*

MW-1 & RW-1 Replaced sock
 Multiplier
 2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4

* MW-8 covered by car
 Please refer to groundwater sampling field procedures
 pH/Conductivity/temperature Meter - Oakton Model PC-10
 DO Meter - Oakton 300 Series (DO is always measured before purge)

CALIBRATION DATE _____
 pH X
 Conductivity X
 DO X



February 28, 2008

Jay Johnson
Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Subject: **Calscience Work Order No.:** 08-02-1552
Client Reference: ARCO 11132

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/21/2008 and analyzed in accordance with the attached chain-of-custody.

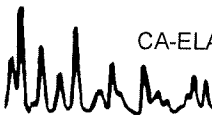
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script, reading "Linda Scharpenberg". The signature is written in black ink and is positioned above the typed name and title.

Calscience Environmental
Laboratories, Inc.
Linda Scharpenberg
Project Manager



CASE NARRATIVE – 08-02-1552

Data Qualifiers - EPA 8260:

Batch 080224S02

The % recovery for MTBE was bias low in the MS. The % recoveries and RPD were within acceptance criteria in the LCS/LCSD. The MS/MSD has been flagged “3” within the report.

“3” = LN

LN = MS and/or MSD below acceptance limits. See Blank Spike (LCS).

Batches 080225S02 & 080226S01

The % recovery for ethanol was bias high in the MSD and the RPD was outside acceptance criteria in the MS/MSD. The % recoveries and RPD were within acceptance criteria in the LCS/LCSD. The MS/MSD has been flagged “3, 4” within the report.

“3” = LM

“4” = BA, AY

LM = MS and/or MSD above acceptance limits. See Blank Spike (LCS).

BA = Relative percent difference out of control

AY = Matrix interference suspected



Analytical Report

Stratus Environmental, inc.
 3330 Cameron Park Drive, Suite 550
 Cameron Park, CA 95682-8861

Date Received: 02/21/08
 Work Order No: 08-02-1552
 Preparation: EPA 5030B
 Method: EPA 8015B (M)

Project: ARCO 11132

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	08-02-1552-1-D	02/20/08 08:17	Aqueous	GC 4	02/23/08	02/23/08 14:24	080223B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	240	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	98	38-134			

MW-4	08-02-1552-2-D	02/20/08 07:33	Aqueous	GC 4	02/23/08	02/23/08 16:03	080223B01
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	90	38-134			

MW-5	08-02-1552-3-D	02/20/08 05:50	Aqueous	GC 4	02/23/08	02/23/08 16:54	080223B01
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	2500	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	100	38-134			

MW-6	08-02-1552-4-D	02/20/08 08:22	Aqueous	GC 4	02/23/08	02/23/08 17:27	080223B01
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	108	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report

Stratus Environmental, inc.
 3330 Cameron Park Drive, Suite 550
 Cameron Park, CA 95682-8861

Date Received: 02/21/08
 Work Order No: 08-02-1552
 Preparation: EPA 5030B
 Method: EPA 8015B (M)

Project: ARCO 11132

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	08-02-1552-5-D	02/20/08 06:32	Aqueous	GC 4	02/23/08	02/23/08 18:00	080223B01

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	105	38-134	

Method Blank	099-12-695-31	N/A	Aqueous	GC 4	02/23/08	02/23/08 12:45	080223B01
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	103	38-134	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report

Stratus Environmental, inc.
 3330 Cameron Park Drive, Suite 550
 Cameron Park, CA 95682-8861

Date Received: 02/21/08
 Work Order No: 08-02-1552
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: ARCO 11132

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	08-02-1552-1-A	02/20/08 08:17	Aqueous	GC/MS Z	02/24/08	02/25/08 06:33	080224L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1.1	0.50	1		Methyl-t-Butyl Ether (MTBE)	2.3	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	0.99	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	0.79	0.50	1		Ethanol	ND	100	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	110	73-157			Dibromofluoromethane	110	82-142		
Toluene-d8	101	82-112			1,4-Bromofluorobenzene	98	75-105		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	08-02-1552-2-A	02/20/08 07:33	Aqueous	GC/MS Z	02/24/08	02/25/08 07:03	080224L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	36	2.5	5	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	100	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	107	73-157			Dibromofluoromethane	110	82-142		
Toluene-d8	98	82-112			1,4-Bromofluorobenzene	89	75-105		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	08-02-1552-3-B	02/20/08 05:50	Aqueous	GC/MS Z	02/25/08	02/26/08 04:55	080225L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	530	50	100		Methyl-t-Butyl Ether (MTBE)	43	5.0	10	
1,2-Dibromoethane	ND	5.0	10		Tert-Butyl Alcohol (TBA)	ND	100	10	
1,2-Dichloroethane	ND	5.0	10		Diisopropyl Ether (DIPE)	ND	5.0	10	
Ethylbenzene	75	5.0	10		Ethyl-t-Butyl Ether (ETBE)	ND	5.0	10	
Toluene	ND	5.0	10		Tert-Amyl-Methyl Ether (TAME)	ND	5.0	10	
Xylenes (total)	62	5.0	10		Ethanol	ND	1000	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	115	73-157			Dibromofluoromethane	113	82-142		
Toluene-d8	98	82-112			1,4-Bromofluorobenzene	98	75-105		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 02/21/08
Work Order No: 08-02-1552
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO 11132

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	08-02-1552-4-A	02/20/08 08:22	Aqueous	GC/MS Z	02/24/08	02/25/08 08:04	080224L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	118	73-157			Dibromofluoromethane	120	82-142		
Toluene-d8	97	82-112			1,4-Bromofluorobenzene	92	75-105		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	08-02-1552-5-A	02/20/08 06:32	Aqueous	GC/MS Z	02/24/08	02/25/08 08:34	080224L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	700	25	50	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	13	10	1	
1,2-Dichloroethane	0.60	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	12	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	114	73-157			Dibromofluoromethane	118	82-142		
Toluene-d8	94	82-112			1,4-Bromofluorobenzene	90	75-105		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-703-46	N/A	Aqueous	GC/MS Z	02/24/08	02/25/08 00:31	080224L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	124	73-157			Dibromofluoromethane	122	82-142		
Toluene-d8	97	82-112			1,4-Bromofluorobenzene	93	75-105		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report

Stratus Environmental, inc.
 3330 Cameron Park Drive, Suite 550
 Cameron Park, CA 95682-8861

Date Received: 02/21/08
 Work Order No: 08-02-1552
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: ARCO 11132

Page 3 of 3

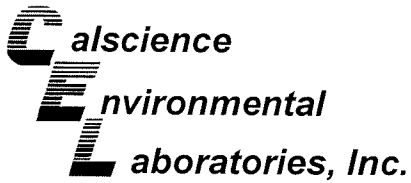
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-703-51	N/A	Aqueous	GC/MS Z	02/25/08	02/26/08 00:23	080225L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	100	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	113	73-157			Dibromofluoromethane	112	82-142		
Toluene-d8	97	82-112			1,4-Bromofluorobenzene	88	75-105		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-703-53	N/A	Aqueous	GC/MS Z	02/26/08	02/26/08 12:02	080226L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	ND	100	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
1,2-Dichloroethane-d4	103	73-157			Dibromofluoromethane	108	82-142		
Toluene-d8	97	82-112			1,4-Bromofluorobenzene	91	75-105		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.
 3330 Cameron Park Drive, Suite 550
 Cameron Park, CA 95682-8861

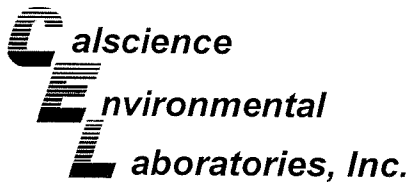
Date Received: 02/21/08
 Work Order No: 08-02-1552
 Preparation: EPA 5030B
 Method: EPA 8015B (M)

Project ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-3	Aqueous	GC 4	02/23/08	02/23/08	080223S01

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Gasoline Range Organics (C6-C12)	91	92	38-134	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.
 3330 Cameron Park Drive, Suite 550
 Cameron Park, CA 95682-8861

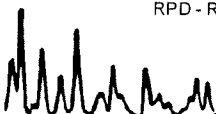
Date Received: 02/21/08
 Work Order No: 08-02-1552
 Preparation: EPA 5030B
 Method: EPA 8260B

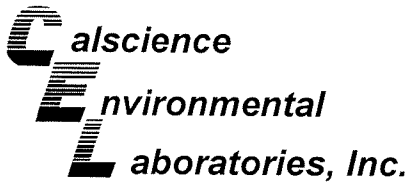
Project ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-1538-15	Aqueous	GC/MS Z	02/24/08	02/25/08	080224S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	100	86-122	3	0-8	
Carbon Tetrachloride	94	96	78-138	2	0-9	
Chlorobenzene	92	95	90-120	3	0-9	
1,2-Dibromoethane	96	100	70-130	4	0-30	
1,2-Dichlorobenzene	93	98	89-119	5	0-10	
1,1-Dichloroethene	107	93	52-142	14	0-23	
Ethylbenzene	95	96	70-130	2	0-30	
Toluene	95	96	85-127	1	0-12	
Trichloroethene	93	92	78-126	1	0-10	
Vinyl Chloride	99	98	56-140	1	0-21	
Methyl-t-Butyl Ether (MTBE)	49	118	64-136	4	0-28	3
Tert-Butyl Alcohol (TBA)	57	117	27-183	10	0-60	
Diisopropyl Ether (DIPE)	99	105	78-126	4	0-16	
Ethyl-t-Butyl Ether (ETBE)	94	98	67-133	4	0-21	
Tert-Amyl-Methyl Ether (TAME)	92	95	63-141	3	0-21	
Ethanol	106	113	11-167	6	0-64	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.
 3330 Cameron Park Drive, Suite 550
 Cameron Park, CA 95682-8861

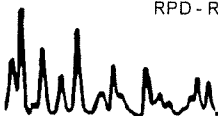
Date Received: 02/21/08
 Work Order No: 08-02-1552
 Preparation: EPA 5030B
 Method: EPA 8260B

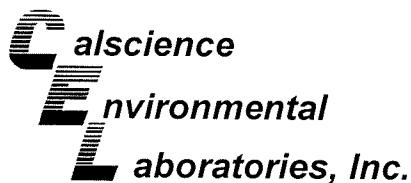
Project ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-1662-4	Aqueous	GC/MS Z	02/25/08	02/26/08	080225S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	95	86-122	2	0-8	
Carbon Tetrachloride	91	94	78-138	3	0-9	
Chlorobenzene	97	98	90-120	1	0-9	
1,2-Dibromoethane	95	97	70-130	3	0-30	
1,2-Dichlorobenzene	96	98	89-119	1	0-10	
1,1-Dichloroethene	91	105	52-142	14	0-23	
Ethylbenzene	99	98	70-130	0	0-30	
Toluene	93	95	85-127	2	0-12	
Trichloroethene	91	91	78-126	1	0-10	
Vinyl Chloride	92	99	56-140	6	0-21	
Methyl-t-Butyl Ether (MTBE)	91	92	64-136	2	0-28	
Tert-Butyl Alcohol (TBA)	114	104	27-183	10	0-60	
Diisopropyl Ether (DIPE)	94	98	78-126	5	0-16	
Ethyl-t-Butyl Ether (ETBE)	88	92	67-133	5	0-21	
Tert-Amyl-Methyl Ether (TAME)	88	93	63-141	5	0-21	
Ethanol	145	368	11-167	87	0-64	4,3

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate

02/21/08
08-02-1552

Stratus Environmental, inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

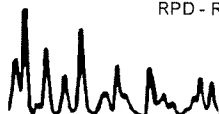
Date Received: 02/21/08
Work Order No: 08-02-1552
Preparation: EPA 5030B
Method: EPA 8260B

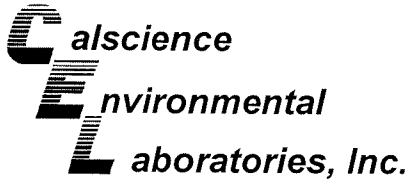
Project ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-1662-7	Aqueous	GC/MS Z	02/26/08	02/26/08	080226S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	95	86-122	2	0-8	
Carbon Tetrachloride	90	91	78-138	2	0-9	
Chlorobenzene	97	96	90-120	1	0-9	
1,2-Dibromoethane	90	92	70-130	2	0-30	
1,2-Dichlorobenzene	96	93	89-119	3	0-10	
1,1-Dichloroethene	100	102	52-142	2	0-23	
Ethylbenzene	99	100	70-130	1	0-30	
Toluene	93	96	85-127	3	0-12	
Trichloroethene	90	96	78-126	6	0-10	
Vinyl Chloride	95	94	56-140	1	0-21	
Methyl-t-Butyl Ether (MTBE)	91	90	64-136	1	0-28	
Tert-Butyl Alcohol (TBA)	96	102	27-183	6	0-60	
Diisopropyl Ether (DIPE)	94	91	78-126	2	0-16	
Ethyl-t-Butyl Ether (ETBE)	90	90	67-133	0	0-21	
Tert-Amyl-Methyl Ether (TAME)	92	92	63-141	0	0-21	
Ethanol	104	403	11-167	118	0-64	4,3

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
 3330 Cameron Park Drive, Suite 550
 Cameron Park, CA 95682-8861

Date Received: N/A
 Work Order No: 08-02-1552
 Preparation: EPA 5030B
 Method: EPA 8015B (M)

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-31	Aqueous	GC 4	02/23/08	02/23/08	080223B01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Gasoline Range Organics (C6-C12)	114	111	78-120	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Stratus Environmental, inc.
 3330 Cameron Park Drive, Suite 550
 Cameron Park, CA 95682-8861

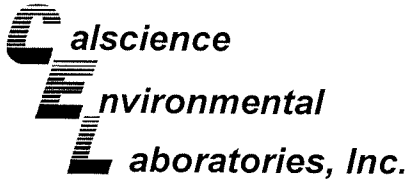
Date Received: N/A
 Work Order No: 08-02-1552
 Preparation: EPA 5030B
 Method: EPA 8260B

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-46	Aqueous	GC/MS Z	02/24/08	02/24/08	080224L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	99	87-117	1	0-7	
Carbon Tetrachloride	97	101	78-132	4	0-8	
Chlorobenzene	100	98	88-118	2	0-8	
1,2-Dibromoethane	104	96	80-120	8	0-20	
1,2-Dichlorobenzene	98	100	88-118	2	0-8	
1,1-Dichloroethene	108	103	71-131	5	0-14	
Ethylbenzene	100	101	80-120	1	0-20	
Toluene	98	98	85-127	0	0-7	
Trichloroethene	99	102	85-121	3	0-11	
Vinyl Chloride	101	104	64-136	3	0-10	
Methyl-t-Butyl Ether (MTBE)	98	91	67-133	8	0-16	
Tert-Butyl Alcohol (TBA)	96	94	34-154	2	0-19	
Diisopropyl Ether (DIPE)	103	99	80-122	4	0-8	
Ethyl-t-Butyl Ether (ETBE)	97	92	73-127	6	0-11	
Tert-Amyl-Methyl Ether (TAME)	96	90	69-135	6	0-12	
Ethanol	95	109	34-124	13	0-44	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
 3330 Cameron Park Drive, Suite 550
 Cameron Park, CA 95682-8861

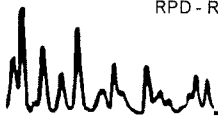
Date Received: N/A
 Work Order No: 08-02-1552
 Preparation: EPA 5030B
 Method: EPA 8260B

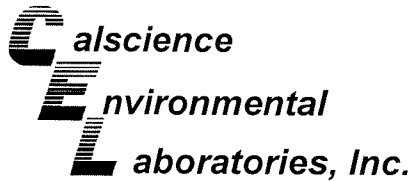
Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-51	Aqueous	GC/MS Z	02/25/08	02/25/08	080225L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	95	96	87-117	2	0-7	
Carbon Tetrachloride	96	97	78-132	1	0-8	
Chlorobenzene	99	96	88-118	3	0-8	
1,2-Dibromoethane	93	95	80-120	2	0-20	
1,2-Dichlorobenzene	98	95	88-118	3	0-8	
1,1-Dichloroethene	104	94	71-131	10	0-14	
Ethylbenzene	99	99	80-120	0	0-20	
Toluene	95	96	85-127	1	0-7	
Trichloroethene	92	96	85-121	4	0-11	
Vinyl Chloride	97	100	64-136	3	0-10	
Methyl-t-Butyl Ether (MTBE)	88	93	67-133	6	0-16	
Tert-Butyl Alcohol (TBA)	97	96	34-154	1	0-19	
Diisopropyl Ether (DIPE)	99	99	80-122	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	92	94	73-127	2	0-11	
Tert-Amyl-Methyl Ether (TAME)	89	94	69-135	5	0-12	
Ethanol	117	109	34-124	7	0-44	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.
 3330 Cameron Park Drive, Suite 550
 Cameron Park, CA 95682-8861

Date Received: N/A
 Work Order No: 08-02-1552
 Preparation: EPA 5030B
 Method: EPA 8260B

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-53	Aqueous	GC/MS Z	02/26/08	02/26/08	080226L01

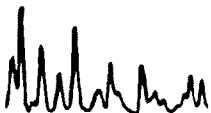
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	95	87-117	1	0-7	
Carbon Tetrachloride	92	95	78-132	4	0-8	
Chlorobenzene	95	98	88-118	3	0-8	
1,2-Dibromoethane	96	96	80-120	0	0-20	
1,2-Dichlorobenzene	95	96	88-118	1	0-8	
1,1-Dichloroethene	103	106	71-131	3	0-14	
Ethylbenzene	97	99	80-120	2	0-20	
Toluene	96	96	85-127	0	0-7	
Trichloroethene	93	95	85-121	2	0-11	
Vinyl Chloride	96	97	64-136	1	0-10	
Methyl-t-Butyl Ether (MTBE)	94	93	67-133	1	0-16	
Tert-Butyl Alcohol (TBA)	97	93	34-154	5	0-19	
Diisopropyl Ether (DIPE)	95	95	80-122	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	92	92	73-127	0	0-11	
Tert-Amyl-Methyl Ether (TAME)	96	93	69-135	3	0-12	
Ethanol	98	110	34-124	11	0-44	

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 08-02-1552

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



Atlantic Richfield Company

A BP affiliated company

Chain of Custody Record

Project Name: ARCO 11132
 BP BU/AR Region/Enfos Segment: BP > Americas > West > Retail > Alameda > 11132
 State or Lead Regulatory Agency: _____
 Requested Due Date (mm/dd/yy): STD / TAT

1552

On-site Time:	<u>0450</u>	Temp:	<u>40's</u>
Off-site Time:	<u>0840</u>	Temp:	<u>50's</u>
Sky Conditions:	<u>RAIN</u>		
Meteorological Events:	_____		
Wind Speed:	_____	Direction:	_____

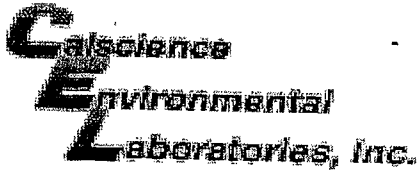
Lab Name: <u>Cal Science</u>	BP/AR Facility No.: <u>11132</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>7440 Lincoln Way</u>	BP/AR Facility Address: <u>3201 35th Ave., Oakland</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
Garden Grove Ca 92841-1427	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Linda Scharpenberg</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor Project No.: <u>E11132-04</u>
Tele/Fax: <u>714-895-5494 714-895-7501</u>	Enfos Project No.: <u>G07TS-0039</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04-Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03-Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01-Contractor labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments *Oxy = MTBE, TAME, ETBE, DIPE, TBA		
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRID	BOISA	BTEX	S. oxy	1,2 DCA		ETHANOL	EDB
1	MW-3	0817	2/20	X				6							X	X	X	X	X	X	
2	MW-4	0733																			
3	MW-5	0550																			
4	MW-6	0822																			
5	MW-7	0632																			
6	TB 11132 022008	0530		X				3													HOLD
9																					HOLD

Sampler's Name: <u>JS/TH</u>	Relinquished By / Affiliation: <u>[Signature] / STRATUS</u>	Date: <u>2-20-08</u>	Time: <u>0945</u>	Accepted By / Affiliation: <u>[Signature] / CEL</u>	Date: <u>2-20-08</u>	Time: <u>0945</u>
Shipment Date: <u>2-20-08</u>	Shipment Method: <u>STRATUS</u>	Shipment Tracking No: <u>105528170</u>				

Special Instructions: Please cc results to rmiller@broadbentinc.com

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



WORK ORDER #: 08 - 02 - 1552

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Stratus

DATE: 2/21/08

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

Chilled, cooler with temperature blank provided.

Chilled, cooler without temperature blank.

Chilled and placed in cooler with wet ice.

Ambient and placed in cooler with wet ice.

Ambient temperature.

°C Temperature blank.

LABORATORY (Other than Calscience Courier):

°C Temperature blank.

3.6 °C IR thermometer.

Ambient temperature.

Initial: HT

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: / No (Not Intact) : _____ Not Present: _____

Initial: HT

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<u>/</u>		
Sampler's name indicated on COC.....	<u>/</u>		
Sample container label(s) consistent with custody papers.....	<u>/</u>		
Sample container(s) intact and good condition.....	<u>/</u>		
Correct containers and volume for analyses requested.....	<u>/</u>		
Proper preservation noted on sample label(s).....	<u>/</u>		
VOA vial(s) free of headspace.....	<u>/</u>		
Tedlar bag(s) free of condensation.....	<u>/</u>		

Initial: HT

COMMENTS:

ATTACHMENT

FIELD PROCEDURES FOR GROUNDWATER SAMPLING

The sampling procedures for groundwater monitoring events are contained in this appendix.

Equipment Calibration

Standard groundwater sampling equipment – pH/Conductivity/Temperature meter, and dissolved oxygen (DO) meters are calibrated prior to all field work. All calibration is conducted in accordance with equipment manufacturer's recommended procedure and buffer solutions. MSDS for all buffer solutions are maintained in Stratus vehicles. Calibration is completed everyday prior to field work and also once a week. The pH probe is calibrated for a pH of 7.0 daily and for 4.0, 7.0 and 10.0 weekly. The conductivity probe is calibrated for 1413 μ s daily and 1413 μ s and 447 μ s weekly. The temperature probe is calibrated weekly with a NIST-traceable thermometer. The DO probe is calibrated for 100% oxygen daily and 0% and 100% oxygen weekly. All calibration logs are maintained in the Stratus office.

Groundwater and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

Prior to measuring the depth to liquid in the well, the well caps are removed and the liquid level allowed to stabilize. A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the groundwater depth in monitoring wells that do not contain LPH. Depth to groundwater or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

Subjective Analysis of Groundwater

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

Monitoring Well Sampling

In many cases, determining whether to purge or not to purge wells prior to sample collection is made in the field and is often based on depth to water relative to the screen interval of the well. Site-specific field data sheets present details associated with the purge method and equipment used.

Monitoring wells, when purged, use a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water has been removed. Field measuring equipment is calibrated and maintained according to the manufacturer's instructions. If three well volumes cannot be removed in one half hour's time the well is allowed to recharge to 80% of original level. After recharging, a groundwater sample is then collected from each of the wells using disposable bailers.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These bottles will be filled completely to prevent air accumulation in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

Groundwater Sample Labeling and Preservation

Samples are collected in appropriate containers supplied by the laboratory. All required chemical preservation is added to the bottles prior to delivery to Stratus. Sample label information includes a unique sample identification number, job identification number, date, and time. After labeling, all groundwater samples are placed in a Ziploc[®] type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip and temperature blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and

contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

Equipment Cleaning

All reusable sampling equipments are cleaned using phosphate-free detergents and rinsed with de-ionized water.

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION

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UPLOADING A GEO_WELL FILE

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

Submittal Title:	1Q08 GEO_WELL 11132
Facility Global ID:	T0600100213
Facility Name:	BP #11132
Submittal Date/Time:	3/12/2008 3:48:23 PM
Confirmation Number:	2216703653

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Confirmation Number: 1062098503

Date/Time of Submittal: 3/12/2008 3:50:57 PM

Facility Global ID: T0600100213

Facility Name: BP #11132

Submittal Title: 1Q08 GW Monitoring

Submittal Type: GW Monitoring Report

[Click here](#) to view the detections report for this upload.

BP #11132 3201 35TH OAKLAND, CA 94619	Regional Board - Case #: 01-0227 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000014 ALAMEDA COUNTY LOP - (SP)
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<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
1062098503	1Q08 GW Monitoring	Q1 2008
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	3/12/2008	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	3
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	M8015,SW8260B
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	N
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125% n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0