Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 1257
San Ramon, CA 94583
Phone: (925) 275-3801
Fax: (925) 275-3815

30 April 2009

Re: First Quarter 2009 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

First Quarter 2009 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

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

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(530) 566-1400
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30 April 2009

Project No. 06-88-655

Broadbent & Associates, Inc.
1324 Mangrove Ave., Suite 212
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30 April 2009

Project No. 06-88-655

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

Attn.: Mr. Paul Supple

Re: First Quarter 2009 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 2009 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 2009.

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 35th 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.:	06-88-655
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH) ACEH Case # RO0000014

WORK PERFORMED THIS QUARTER (First Quarter 2009):

1. Prepared and submitted *Fourth Quarter 2008 Ground-Water Monitoring Report* (BAI, 1/30/2009).
2. Prepared and submitted the *Dual-Phase Extraction Pilot Testing and Soil & Ground-Water Investigation Work Plan* (BAI, 1/9/2009).
3. Conducted ground-water monitoring/sampling for First Quarter 2009. Work performed by Stratus Environmental, Inc. (Stratus) on 25 February 2009.
4. Performed monthly free product (FP) gauging and bailing on 14 January, 2 February, 25 February, and 11 March 2009. Work performed by Stratus.
5. Prepared and submitted *Addendum to Dual-Phase Extraction Pilot Testing and Soil & Ground-Water Investigation Work Plan* (BAI, 3/24/2009).

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2009):

1. Prepared and submitted this *First Quarter 2009 Ground-Water Monitoring Report* (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for Second Quarter 2009.
3. Perform monthly FP gauging and bailing.
4. Implement *Dual-Phase Extraction Pilot Testing and Soil & Ground-Water Investigation Work Plan* and *Addendum to Dual-Phase Extraction Pilot Testing and Soil & Ground-Water Investigation Work Plan* per approval by ACEH in letters dated 17 February 2009 and 16 April 2009, respectively.

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-9, RW-1)**
FP recovered this quarter:	**25.0 gallons (FP/water mixture)**
Cumulative FP recovered since 1990:	**188.3 gallons (FP/water mixture)**
Current remediation techniques:	**Interim FP Bailing/DPE Feasibility Pilot Testing**
Depth to ground water (below TOC):	**9.99 ft (MW-6) to 16.81 ft (MW-4)**
General ground-water flow direction:	**Southeast**
Approximate hydraulic gradient:	**0.01 ft/ft**

DISCUSSION:

First quarter ground-water monitoring was conducted at Former BP Station #11132 by Stratus on 25 February 2009. Water levels were gauged in each of the 11 wells at the Site. Sheen was observed in wells MW-8 and MW-9. Free Product was observed in wells MW-1 and RW-1. No other irregularities were noted during water level gauging. Depth to water measurements ranged from 9.99 ft at MW-6 to 16.81 ft at MW-4. Resulting ground-water surface elevations ranged from 155.41 ft above mean sea level at well MW-6 to 146.09 ft at MW-8. Water level elevations were within the historic minimum and maximum ranges for each well. Water level elevations yielded a potentiometric ground-water flow direction and gradient of approximately 0.01 ft/ft to the southeast, generally consistent with 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-2 through MW-10. Wells MW-1 and RW-1 were not sampled due to the presence of Free Product. 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. Specific bio-degradation parameters including carbon dioxide, methane, manganese, nitrate, sulfate, total alkalinity, dissolved sulfide, ferrous iron, dissolved oxygen, pH, conductivity, and oxygen-reduction potential were also monitored and analyzed for during this quarter. The laboratory noted that samples MW-5, MW-7, and MW-10 analyzed for ferrous iron and dissolved sulfide were received after the hold time expired. No other 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.

Gasoline Range Organics (GRO) were detected above the laboratory reporting limits in six of the nine wells sampled at concentrations up to 18,000 micrograms per liter (µg/L) in well MW-2. Benzene was detected above the laboratory reporting limit in five of the nine wells sampled at concentrations up to 5,200 µg/L in well MW-2. Toluene was detected above the laboratory reporting limit in two of the nine wells sampled at concentrations of 11 µg/L in MW-8 and 14 µg/L in MW-10. Ethylbenzene was detected above the laboratory reporting limit in five of the nine wells sampled at concentrations up to 550 µg/L in well MW-9. Total Xylenes were detected above the laboratory reporting limit in five of the nine wells sampled at concentrations up to 1,400 µg/L in well MW-2. TAME was detected above the laboratory reporting limit in one of the nine wells sampled at a concentration of 0.62 µg/L in well MW-5. TBA was detected above the laboratory reporting limit in two of the nine wells sampled at concentrations of 110 µg/L in MW-5 and 280 µg/L in MW-10. MTBE was detected above the laboratory reporting limit in five of the nine wells sampled at concentrations up to 540 µg/L in well MW-7. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the nine wells sampled this quarter. Bio-degradation parameters are summarized in Table 5. Further discussion about bio-degradation parameters will occur in future reports following analysis of the data for trends.

Detected analyte concentrations were within the historic minimum and maximum ranges for each well with the following exceptions: Total Xylenes (65 µg/L) reached a historic minimum value in well MW-8. Benzene (53 µg/L) and Toluene (14 µg/L) each reached historic minimum values in well MW-10. TBA (280 µg/L) reached a historic maximum value in well MW-10. Historic laboratory analytical results and bio-degradation parameters are summarized in Table 1, Table 2, and Table 5. 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, if present, during January, February, and March 2009. During the January FP gauging/bailing event on 14 January 2009, FP thickness was measured in wells MW-1 (0.01 ft) and RW-1 (0.01 ft). No sheen or FP was recorded in wells MW-2, MW-9, or MW-10. Well MW-8 was inaccessible due to a parked car. Approximately three gallons of FP/water mixture was removed from well MW-1 and approximately two gallons of FP/water mixture was removed from well RW-1 during the January visit. During the February FP bailing event on 4 February 2009, FP thickness was measured in wells MW-1 (0.01 ft), MW-9 (0.01 ft) and RW-1 (0.01 ft). No sheen or FP was recorded in wells MW-2 or MW-10. Well MW-8 was inaccessible due to a parked car. Approximately four gallons of FP/water mixture was removed from well MW-1, approximately 1.5 gallons were removed from well MW-9, and approximately 3.5 gallons were removed from well RW-1 during the 4 February visit. During the second February FP bailing event on 25 February 2009, FP thickness was measured in wells MW-1 (0.02 ft) and RW-1 (0.02 ft). No FP was recorded in wells MW-2, MW-8, MW-9, or MW-10. Sheen was observed in wells MW-8 and MW-9. Approximately one gallon of FP/water mixture was removed from well MW-1 and approximately four gallons were removed from well RW-1 during the 25 February visit. During the March FP gauging/ bailing event on 11 March 2009, FP thickness was measured in wells MW-1 (0.01 ft) and RW-1 (0.01 ft). No sheen or FP was recorded in wells MW-2, MW-8, MW-9, or MW-10. Approximately 2.5 gallons of FP/water mixture was removed from well MW-1 and approximately 3.5 gallons was removed from well RW-1 during the March visit. Total FP/water mixture removed from wells this quarter was approximately 25.0 gallons. Total cumulative FP/water mixture removed to date at the Site is approximately 188.3 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.

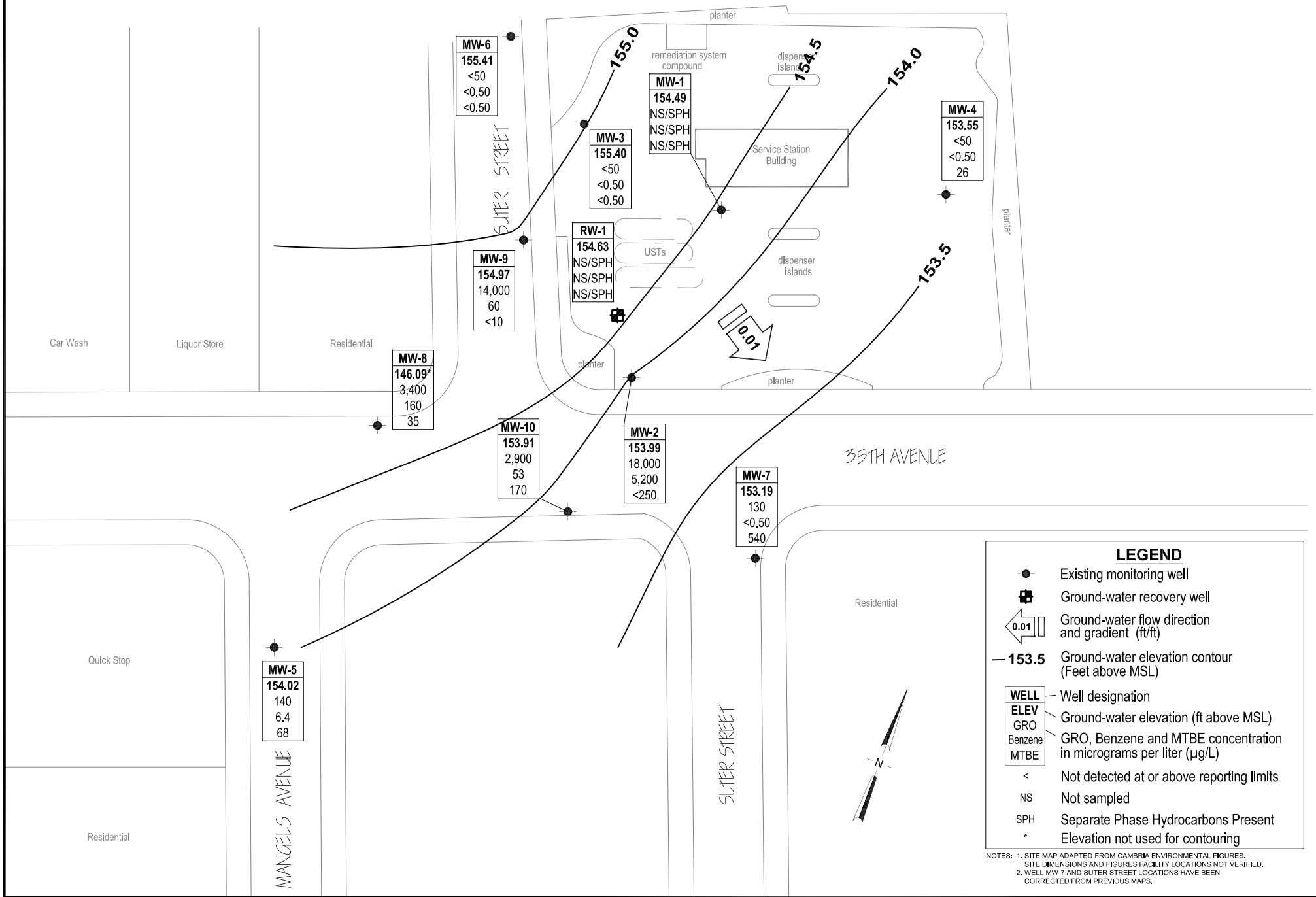
CLOSURE:

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, 25 February 2009, 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



0 50 100

SCALE (ft)

BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

1324 Mangrove Ave. Suite 212, Chico, California 95926

Project No.: 06-88-655 Date: 4/9/09

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

Ground-Water Elevation Contours and Analytical Summary Map
25 February 2009

Drawing
1

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	--	--	--	--	--	--	--	--	--	
6/8/1995	--	169.75	22.92	--	146.83	--	--	--	--	--	--	--	--	--	
6/8/95-6/28/95	--	169.75	--	1.25	145.63	--	--	--	--	--	--	--	--	--	
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.															
4/30/1997	--	169.75	--	--	--	100,000	3,600	8,000	4,000	21,300	7,700	5.2	--	--	
8/21/1997	--	169.75	--	--	--	120,000	3,200	8,100	3,800	19,600	5,200	--	--	--	c
8/21/1997	--	169.75	23.40	--	146.35	140,000	3,000	8,500	3,900	22,100	5,700	5.3	--	--	
11/2/97-12/9/97	--	169.75	--	0.87	--	--	--	--	--	--	--	--	--	--	
11/5/1997	--	169.75	23.70	--	145.51	68,000	6,200	4,400	3,300	14,300	8,000	4.7	--	--	
11/5/1997	--	169.75	--	--	--	88,000	7,300	4,800	3,600	16,900	8,200	--	--	--	c
2/3/1998	--	169.75	13.63	0.32	155.80	--	--	--	--	--	--	--	--	--	
2/4/1998	--	169.75	--	--	--	190,000	2,200	10,000	5,600	32,000	<10000	5.3	--	--	
2/4/1998	--	169.75	--	--	--	160,000	2,300	8,400	5,000	29,400	<10000	--	--	--	c
5/28/1998	--	169.75	18.03	0.17	151.55	87,000	980	3,900	3,600	19,000	2,900	3.8	--	--	
12/30/1998	--	169.75	19.50	0.08	150.17	70,000	530	3,200	2,900	16,000	3,600	--	--	--	
2/2/1999	--	169.75	18.93	0.03	150.79	79,000	480	3,100	3,500	21,000	3,500	--	--	--	
5/10/1999	--	169.75	18.28	0.03	151.44	110,000	160	1,900	3,700	24,000	3,000	--	--	--	
8/24/1999	--	169.75	20.13	0.06	149.56	110,000	850	1,300	1,900	19,000	<50	--	--	--	
11/3/1999	--	169.75	22.27	0.36	147.12	65,000	6,300	1,100	3,300	9,500	8,900	--	--	--	
3/1/2000	--	169.75	14.79	0.23	154.73	--	--	--	--	--	--	--	--	--	h
4/21/2000	--	169.75	18.10	0.33	151.32	61,000	330	780	2,700	17,000	1,300	--	--	--	
7/31/2000	--	169.75	21.60	0.53	147.62	1,500,000	340	2,100	24,000	120,000	2,700	--	--	--	
11/20/2000	--	169.75	21.69	0.37	147.69	1,700,000	1,800	2,300	19,000	93,000	3,900	--	--	--	
2/18/2001	--	169.75	16.70	0.13	152.92	--	--	--	--	--	--	--	--	--	
2/26/2001	--	169.75	14.38	0.15	155.22	100,000	658	466	4,210	15,000	1,890	--	--	--	
6/7/2001	--	169.75	20.78	0	148.97	70,000	705	440	3,870	12,200	2,720	--	--	--	
9/5/2001	--	169.75	23.36	0.35	146.04	--	--	--	--	--	--	--	--	--	j
11/30/2001	--	169.75	20.85	0.41	148.49	--	--	--	--	--	--	--	--	--	k
12/6/2001	--	169.75	18.72	0.27	150.76	39,000	3,500	237	2,150	4,500	5,400	--	--	--	
2/20/2002	--	169.75	17.43	0.15	152.17	52,000	465	271	1,600	11,400	106	--	--	--	
6/20/2002	--	169.75	21.18	0.34	148.23	--	--	--	--	--	--	--	--	--	j
9/11/2002	--	169.75	22.86	0.4	146.49	--	--	--	--	--	--	--	--	--	j
11/12/2002	--	169.75	22.65	0.37	146.73	--	--	--	--	--	--	--	--	--	j
1/29/2003	--	169.75	18.15	0.3	151.30	--	--	--	--	--	--	--	--	--	j,n
5/22/2003	--	169.75	18.49	0.2	151.06	--	--	--	--	--	--	--	--	--	j

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
5/7/2008	--	169.75	20.91	0.02	148.86	--	--	--	--	--	--	--	--	--	b, j
8/20/2008	--	169.75	22.77	0.02	147.00	--	--	--	--	--	--	--	--	--	b
11/17/2008	P	169.75	22.05	--	147.70	27,000	780	30	1,800	1,400	590	--	CEL	6.60	w
2/25/2009	**--**	**169.75**	**15.28**	**0.02**	**154.49**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**b**
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	--	--	--	--	--	--	--	--	--	

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-2 Cont.															
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	--	--	--	--	--	--	--	--	--	
6/8/1995	--	168.14	21.18	--	146.96	--	--	--	--	--	--	--	--	--	
8/22/1995	--	168.14	22.76	--	145.38	--	--	--	--	--	--	--	--	--	
10/27/1995	--	168.14	23.61	--	144.53	--	--	--	--	--	--	--	--	--	
1/25/1996	--	168.14	15.95	--	152.19	--	--	--	--	--	--	--	--	--	
4/19/1996	--	168.14	17.33	--	150.81	--	--	--	--	--	--	--	--	--	
7/23/1996	--	168.14	21.25	--	146.89	--	--	--	--	--	--	--	--	--	
11/11/1996	--	168.14	22.27	--	145.87	--	--	--	--	--	--	--	--	--	
1/21/1997	--	168.14	15.19	--	152.95	--	--	--	--	--	--	--	--	--	
4/29/1997	--	168.14	20.22	--	147.92	--	--	--	--	--	--	--	--	--	
4/30/1997	--	168.14	--	--	--	130,000	4,600	15,000	6,000	37,000	<5000	5	--	--	
8/21/1997	--	168.14	21.74	--	146.40	110,000	6,000	16,000	4,700	28,000	<500	4.6	--	--	
11/5/1997	--	168.14	21.61	--	146.53	120,000	7,800	18,000	4,900	28,100	<2500	4.6	--	--	
2/3/1998	--	168.14	11.51	--	156.63	75,000	590	1,500	1,800	12,800	<2500	4.5	--	--	
5/28/1998	--	168.14	16.51	--	151.63	79,000	3,900	3,100	3,100	18,000	900	4.3	--	--	
12/30/1998	--	168.14	17.70	--	150.44	95,000	4,700	3,500	3,700	21,000	<250	--	--	--	
2/2/1999	--	168.14	15.46	--	152.68	170,000	3,500	1,500	5,200	34,000	<500	--	--	--	
5/10/1999	--	168.14	16.52	--	151.62	84,000	3,200	3,200	3,700	20,000	75	--	--	--	
8/24/1999	--	168.14	20.73	--	147.41	130,000	9,100	9,200	4,700	27,000	<250	--	--	--	
11/3/1999	--	168.14	20.93	--	147.21	120,000	10,000	21,000	4,700	30,200	2,200	--	--	--	
3/1/2000	--	168.14	13.37	--	154.77	39,000	1,400	1,500	1,700	8,100	44	--	--	--	
4/21/2000	--	168.14	16.59	--	151.55	68,000	3,300	2,500	3,100	20,000	260	--	--	--	
7/31/2000	--	168.14	16.37	--	151.77	99,000	5,600	1,400	4,300	22,000	490	--	--	--	
11/20/2000	--	168.14	19.71	--	148.43	37,000	5,100	1,500	1,300	4,800	2,800	--	--	--	
2/18/2001	--	168.14	15.29	--	152.85	54,000	5,020	3,880	2,850	15,400	1,010	--	--	--	
6/7/2001	--	168.14	19.43	--	148.71	110,000	7,240	4,380	4,160	22,100	567	--	--	--	
9/5/2001	--	168.14	22.44	--	145.70	69,000	5,750	5,790	2,770	14,200	1,510	--	--	--	
11/30/2001	--	168.14	19.58	--	148.56	120,000	7,270	6,540	4,590	23,000	794	--	--	--	

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-2 Cont.															
2/20/2002	--	168.14	16.39	--	151.75	56,000	2,410	2,270	2,910	14,300	160	--	--	--	
6/20/2002	--	168.14	19.77	--	148.37	86,000	7,310	6,490	3,080	14,600	659	--	--	--	
9/11/2002	--	168.14	21.60	--	146.54	130,000	7,600	13,000	5,400	30,000	<5000	--	--	--	
11/12/2002	--	168.14	21.34	--	146.80	46,000	4,100	4,300	1,900	10,000	1,900	--	--	--	t
1/29/2003	--	168.14	16.80	--	151.34	77,000	4,700	2,600	2,800	13,000	820	--	--	--	n,t
5/22/2003	--	168.14	17.15	--	150.99	52,000	6,400	2,600	1,800	7,400	1,000	--	--	--	t
7/28/2003	--	168.14	21.47	--	146.67	31,000	6,900	5,500	2,200	12,000	1,700	--	--	--	p
11/18/2003	P	168.14	20.50	--	147.64	23,000	3,300	800	500	2,000	500	--	SEQM	6.6	
02/23/2004	P	168.14	14.77	--	153.37	84,000	14,000	6,200	3,100	14,000	790	--	SEQM	6.6	t
05/04/2004	P	168.14	20.09	--	148.05	120,000	15,000	17,000	4,900	24,000	780	--	SEQM	6.6	t
08/04/2004	P	168.14	21.39	--	146.75	38,000	9,100	3,300	1,900	5,800	430	--	SEQM	6.69	t
11/10/2004	P	168.14	18.98	--	149.16	22,000	4,400	2,000	940	3,600	310	--	SEQM	7.5	
02/15/2005	P	168.14	15.62	--	152.52	67,000	11,000	4,200	3,000	11,000	690	--	SEQM	7.1	t
05/16/2005	P	168.14	14.71	--	153.43	94,000	11,000	7,600	4,100	17,000	560	--	SEQM	6.5	
08/17/2005	P	168.14	20.00	--	148.14	110,000	13,000	8,000	4,300	18,000	480	--	SEQM	6.6	
11/18/2005	P	168.14	20.89	--	147.25	37,000	11,000	2,400	1,500	4,600	340	--	SEQM	6.6	
02/07/2006	P	168.14	13.31	--	154.83	74,000	8,900	5,800	3,600	14,000	440	--	SEQM	6.7	
5/19/2006	P	168.14	16.30	--	151.84	78,000	11,000	3,700	4,500	14,000	430	--	SEQM	6.6	t
8/23/2006	P	168.14	20.83	--	147.31	100,000	12,000	9,100	5,800	25,000	480	--	TAMC	6.6	
11/15/2006	--	168.14	20.80	--	147.34	46,000	8,800	3,600	2,300	8,500	400	0.70	TAMC	6.73	
2/14/2007	P	168.14	15.96	SHEEN	152.18	100,000	13,000	3,600	6,200	26,000	810	1.43	TAMC	6.97	t
5/22/2007	P	168.14	18.20	--	149.94	91,000	15,000	8,700	4,700	20,000	1,000	0.08	TAMC	6.90	
8/15/2007	P	168.14	21.23	SHEEN	146.91	14,000	7,300	130	280	600	260	4.24	TAMC	6.78	
11/8/2007	P	168.14	20.32	--	147.82	22,000	7,400	420	640	1,700	240	1.21	TAMC	7.03	
2/20/2008	--	168.14	15.20	0.06	152.99	--	--	--	--	--	--	--	--	--	b, j
5/7/2008	--	168.14	19.80	0.04	148.37	--	--	--	--	--	--	--	--	--	b, j
8/20/2008	--	168.14	21.70	0.01	146.45	--	--	--	--	--	--	--	--	--	b
11/17/2008	P	168.14	20.73	--	147.41	45,000	8,400	700	1,500	5,600	320	--	CEL	6.46	t, w
2/25/2009	**P**	**168.14**	**14.15**	**--**	**153.99**	**18,000**	**5,200**	**<250**	**380**	**1,400**	**<250**	**2.11**	**CEL**	**6.50**	
MW-3															

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.															
7/9/1990	--	167.17	--	--	--	140	5.3	4.6	2	3.8	--	--	--	--	
12/21/1990	--	167.17	--	--	--	0.19	100	6	0.9	27	--	--	--	--	
3/7/1991	--	167.17	17.40	--	149.77	0.4	69	22	6.1	57	--	--	--	--	
4/1/1991	--	167.17	13.69	--	153.48	--	--	--	--	--	--	--	--	--	
6/27/1991	--	167.17	--	--	--	380	28	26	13	46	--	--	--	--	
9/27/1991	--	167.17	--	--	--	0.07	7.9	--	0.4	1.1	--	--	--	--	
12/18/1991	--	167.17	--	--	--	0.26	34	24	0.8	28	--	--	--	--	
7/3/1992	--	167.17	19.59	--	147.58	71	9.4	0.9	5	13	--	--	--	--	
10/5/1992	--	167.17	21.22	--	145.95	67	5.1	1.1	6.1	8.1	--	--	--	--	
10/5/1992	--	167.17	--	--	--	<50	2.2	<0.5	1.5	2.8	--	--	--	--	c
1/13/1993	--	167.17	13.63	--	153.54	830	50	34	42	89	--	--	--	--	i
4/23/1993	--	167.17	15.02	--	152.15	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
4/23/1993	--	167.17	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	c,i
7/12/1993	--	167.17	19.16	--	148.01	250	12	4.2	12	16	<5.0	--	--	--	i
10/21/1993	--	167.17	21.81	--	145.36	52	4.4	1.4	4.7	3.3	<5.0	--	--	--	i
10/21/1993	--	167.17	--	--	--	65	7.4	1	6.9	4.2	--	--	--	--	c
1/21/1994	--	167.17	19.94	--	147.23	57	3	3.4	3.6	9	<5.0	--	--	--	i
4/20/1994	--	167.17	20.24	--	146.93	600	26	23	33	88	28.7	1.8	--	--	i
8/1/1994	--	167.17	20.74	--	146.43	99	6.2	1.1	4.5	5.2	<5.0	1.4	--	--	i
8/1/1994	--	167.17	--	--	--	120	7.7	1.6	5.9	6.7	5.43	--	--	--	c,i
12/23/1994	--	167.17	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	c
12/23/1994	--	167.17	14.70	--	152.47	<50	<0.5	0.78	<0.5	<0.5	9.8	1.7	--	--	i
1/26/1995	--	167.17	12.89	--	154.28	190	16	0.5	35	24	--	6.6	--	--	d
6/8/1995	--	167.17	19.95	--	147.22	330	21	4	34	32	--	7	--	--	
8/22/1995	--	167.17	21.41	--	145.76	150	14	<0.50	<0.50	1.6	<5.0	6.6	--	--	d
10/27/1995	--	167.17	22.43	--	144.74	--	--	--	--	--	--	--	--	--	
10/30/1995	--	167.17	--	--	--	51	2.4	<0.50	<0.50	<1.0	<5.0	6.9	--	--	
1/25/1996	--	167.17	14.03	--	153.14	<50	<0.50	<0.50	<0.50	<1.0	5.1	--	--	--	
4/19/1996	--	167.17	15.26	--	151.91	460	55	4	33	63	<10	9.4	--	--	
7/23/1996	--	167.17	19.19	--	147.98	<50	<0.5	<0.5	<0.5	<0.5	<10	9.2	--	--	
11/11/1996	--	167.17	20.24	--	146.93	<250	<2.5	<5.0	<5.0	<5.0	<50	8.4	--	--	

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.															
1/21/1997	--	167.17	13.09	--	154.08	<50	<0.5	<1.0	<1.0	<1.0	<10	5.4	--	--	
4/29/1997	--	167.17	18.14	--	149.03	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	--	--	
8/21/1997	--	167.17	19.64	--	147.53	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	--	--	
11/5/1997	--	167.17	19.95	--	147.22	<250	<2.5	<5.0	<5.0	<5.0	<50	4.5	--	--	
2/3/1998	--	167.17	10.57	--	156.60	<50	<0.50	<1.0	<1.0	<1.0	<10	4.7	--	--	
5/28/1998	--	167.17	14.65	--	152.52	330	<2.5	<5.0	<5.0	<5.0	<50	4.2	--	--	
12/30/1998	--	167.17	16.63	--	150.54	--	--	--	--	--	--	--	--	--	
2/2/1999	--	167.17	13.12	--	154.05	<250	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	
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	--	--	--	--	--	--	--	--	--	

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.															
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	--	--	--	--	--	--	--	--	--	
2/14/2007	P	167.17	13.80	--	153.37	200	1.1	<0.50	5.9	3.2	3.8	0.68	TAMC	7.52	
5/22/2007	--	167.17	16.80	--	150.37	--	--	--	--	--	--	--	--	--	
8/15/2007	--	167.17	19.87	--	147.30	--	--	--	--	--	--	--	--	--	
11/8/2007	--	167.17	19.27	--	147.90	--	--	--	--	--	--	--	--	--	
2/20/2008	P	167.17	13.58	--	153.59	240	1.1	<0.50	0.99	0.79	2.3	2.58	CEL	7.06	
5/7/2008	--	167.17	18.32	--	148.85	--	--	--	--	--	--	--	--	--	
8/20/2008	--	167.17	20.29	--	146.88	--	--	--	--	--	--	--	--	--	
11/17/2008	--	167.17	19.35	--	147.82	--	--	--	--	--	--	--	--	--	
2/25/2009	**P**	**167.17**	**11.77**	**--**	**155.40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**3.45**	**CEL**	**7.09**	
MW-4															
7/9/1990	--	170.36	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	170.36	--	--	--	--	--	--	--	0.8	--	--	--	--	
3/7/1991	--	170.36	20.72	--	149.64	--	2.2	3.8	1.5	2.8	--	--	--	--	
4/1/1991	--	170.36	17.49	--	152.87	--	--	--	--	--	--	--	--	--	
6/27/1991	--	170.36	--	--	--	--	6.3	1.8	0.4	1	--	--	--	--	
9/27/1991	--	170.36	--	--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--	170.36	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--	170.36	22.16	--	148.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
10/5/1992	--	170.36	23.38	--	146.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
1/13/1993	--	170.36	17.58	--	152.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
4/23/1993	--	170.36	15.72	--	154.64	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	i
7/12/1993	--	170.36	21.74	--	148.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	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-4 Cont.															
10/21/1993	--	170.36	23.84	--	146.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	i
1/21/1994	--	170.36	22.42	--	147.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	i
4/20/1994	--	170.36	22.66	--	147.70	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.2	--	--	i
8/1/1994	--	170.36	23.01	--	147.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.9	--	--	i
12/23/1994	--	170.36	17.03	--	153.33	--	--	--	--	--	--	--	--	--	
1/26/1995	--	170.36	17.42	--	152.94	<50	<0.5	<0.5	<0.5	<1	--	7.5	--	--	
6/8/1995	--	170.36	21.55	--	148.81	--	--	--	--	--	--	--	--	--	
8/22/1995	--	170.36	23.47	--	146.89	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.4	--	--	d
10/27/1995	--	170.36	24.50	--	145.86	--	--	--	--	--	--	--	--	--	
1/25/1996	--	170.36	18.74	--	151.62	<50	<0.50	<0.50	<0.50	<1.0	58	--	--	--	
4/19/1996	--	170.36	18.63	--	151.73	--	--	--	--	--	--	--	--	--	
7/23/1996	--	170.36	22.56	--	147.80	--	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	--	--	

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.															
11/30/2001	--	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	--	--	--	--	--	--	--	--	--	
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	
5/7/2008	--	170.36	21.38	--	148.98	--	--	--	--	--	--	--	--	--	
8/20/2008	--	170.36	22.44	--	147.92	--	--	--	--	--	--	--	--	--	
11/17/2008	--	170.36	22.20	--	148.16	--	--	--	--	--	--	--	--	--	
2/25/2009	**P**	**170.36**	**16.81**	**--**	**153.55**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**26**	**2.80**	**CEL**	**6.83**	

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															
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
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	16.80	--	148.34	2,000	630	58	61	180	--	6.5	--	--	
6/8/1995	--	165.14	--	--	--	1,700	560	51	55	170	--	--	--	--	c
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	13.30	--	151.84	590	37	0.7	<0.50	<1.0	<5.0	--	--	--	
1/25/1996	--	165.14	--	--	--	540	37	0.66	<0.50	<1.0	<5.0	--	--	--	c
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	--	--	

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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-5 Cont.															
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	--	--	--	--	--	--	--	--	--	
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	

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.															
11/18/2005	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	
5/7/2008	P	165.14	16.91	--	148.23	6,700	1,800	29	270	360	30	2.45	CEL	6.87	t
8/20/2008	P	165.14	19.45	--	145.69	300	22	<2.0	8.5	5.3	260	5.57	CEL	6.86	
11/17/2008	--	165.14	--	--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	**P**	**165.14**	**11.12**	**--**	**154.02**	**140**	**6.4**	**<0.50**	**2.4**	**3.1**	**68**	**4.38**	**CEL**	**6.65**	
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
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

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.															
8/1/1994	--	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	--	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	--	--	

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.															
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	
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	
5/7/2008	--	165.40	16.75	--	148.65	--	--	--	--	--	--	--	--	--	
8/20/2008	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e
11/17/2008	--	165.40	--	--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	**P**	**165.40**	**9.99**	**--**	**155.41**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**2.39**	**CEL**	**7.09**	
MW-7															
7/9/1990	--	167.61	--	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--	167.61	--	--	--	--	--	--	--	--	--	--	--	--	

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.															
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	--	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	--	--	

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.															
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	--	167.61	20.50	--	147.11	--	--	--	--	--	--	--	--	--	s
11/18/2003	--	168.08	20.50	--	147.58	--	--	--	--	--	--	--	--	--	
02/23/2004	--	168.08	15.92	--	152.16	--	--	--	--	--	--	--	--	--	
05/04/2004	--	168.08	18.86	--	149.22	--	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	--	--	

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.															
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	
5/7/2008	--	168.08	19.41	--	148.67	--	--	--	--	--	--	--	--	--	
8/20/2008	--	168.08	21.34	--	146.74	--	--	--	--	--	--	--	--	--	
11/17/2008	--	168.08	20.54	--	147.54	--	--	--	--	--	--	--	--	--	
2/25/2009	**P**	**168.08**	**14.89**	**--**	**153.19**	**130**	**<20**	**<20**	**<20**	**<20**	**540**	**4.28**	**CEL**	**6.87**	
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
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	--	--	--	--	--	--	--	--	--	

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.															
8/22/1995	--	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
2/20/2002	--	165.74	14.02	--	151.72	20,000	163	114	403	3,810	80.4	--	--	--	
6/20/2002	--	165.74	17.56	--	148.18	28,000	466	141	962	5,850	2,520	--	--	--	
9/11/2002	--	165.74	19.45	--	146.29	190,000	1,500	670	4,500	23,000	1,200	--	--	--	
11/12/2002	--	165.74	19.15	--	146.59	420	6.4	2.9	16	110	31	--	--	--	t

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.															
1/29/2003	--	165.74	15.02	--	150.72	200,000	810	<500	2,000	11,000	<500	--	--	--	n
5/22/2003	--	165.74	15.07	--	150.67	--	--	--	--	--	--	--	--	--	t
6/24/2003	--	165.74	17.95	--	147.79	43,000	860	300	2,100	9,600	46	--	--	--	
7/28/2003	--	165.74	19.45	--	146.29	62,000	690	230	1,800	15,000	2,100	--	--	--	
8/12/2003	--	165.74	19.40	<0.01	146.34	--	--	--	--	--	--	--	--	--	o,t
9/12/2003	--	165.74	19.34	--	146.40	--	--	--	--	--	--	--	--	--	o
10/3/2003	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
11/18/2003	P	165.74	18.80	<0.01	146.94	8,800	500	37	530	930	1,700	--	SEQM	--	o,p
12/31/2003	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
2/2/2004	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
02/23/2004	P	165.74	12.82	<0.01	152.92	32,000	840	360	1,000	7,100	110	--	SEQM	6.6	t
3/18/2004	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
4/13/2004	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
05/04/2004	P	165.74	18.87	<0.01	146.87	42,000	570	230	1,700	8,400	2,000	--	SEQM	7.0	t
6/2/2004	--	165.74	--	<0.01	--	--	--	--	--	--	--	--	--	--	
08/04/2004	--	165.74	19.37	0.05	146.41	--	--	--	--	--	--	--	--	--	
09/22/2004	NP	165.74	19.60	--	146.14	--	--	--	--	--	--	--	--	--	
11/10/2004	P	165.74	16.58	--	149.16	11,000	790	61	1,000	830	74	--	SEQM	7.3	t
02/15/2005	P	165.74	12.85	--	152.89	38,000	1,300	390	2,300	7,900	<50	--	SEQM	7.2	
05/16/2005	P	165.74	12.22	--	153.52	31,000	1,000	360	2,500	7,500	<50	--	SEQM	6.5	
08/17/2005	P	165.74	17.80	--	147.94	60,000	540	240	2,500	8,600	<50	--	SEQM	6.7	
11/18/2005	P	165.74	21.02	--	144.72	33,000	340	120	1,400	4,900	140	--	SEQM	6.9	
02/07/2006	P	165.74	10.73	--	155.01	5,700	94	27	260	820	7.5	--	SEQM	6.6	
5/19/2006	P	165.74	13.89	--	151.85	40,000	1,100	320	2,900	6,000	<25	--	SEQM	6.6	t
8/23/2006	P	165.74	18.85	--	146.89	21,000	520	150	1,800	6,300	82	--	TAMC	7.35	
11/15/2006	P	165.74	18.75	--	146.99	3,300	81	<25	130	430	110	0.81	TAMC	6.91	
2/14/2007	P	165.74	13.45	SHEEN	152.29	9,300	320	<25	360	710	82	1.89	TAMC	7.13	t
5/22/2007	P	165.74	15.92	SHEEN	149.82	17,000	370	51	760	1,600	11	1.05	TAMC	6.99	t
8/15/2007	P	165.74	19.11	SHEEN	146.63	17,000	170	44	1,000	2,700	28	3.93	TAMC	7.08	
11/8/2007	P	165.74	18.46	SHEEN	147.28	24,000	150	43	1,100	3,200	27	1.29	TAMC	7.14	t
2/20/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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-8 Cont.															
5/7/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	e
8/20/2008	--	165.74	19.66	0.01	146.09	--	--	--	--	--	--	--	--	--	b
11/17/2008	--	165.74	--	--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	**P**	**165.74**	**11.50**	**SHEEN**	**154.24**	**3,400**	**160**	**11**	**88**	**65**	**35**	**2.18**	**CEL**	**6.98**	**t**
MW-9															
3/7/1991	--	166.20	16.79	--	149.41	7.1	220	4	2.4	2,400	--	--	--	--	
4/1/1991	--	166.20	12.89	--	153.31	12,000	2,000	2,600	360	1,600	--	--	--	--	
6/27/1991	--	166.20	--	--	--	3,600	520	400	85	310	--	--	--	--	
9/27/1991	--	166.20	--	--	--	3.2	720	150	50	180	--	--	--	--	
12/18/1991	--	166.20	--	--	--	--	2.5	1.1	0.3	5.8	--	--	--	--	
7/3/1992	--	166.20	18.89	--	147.31	5,700	17,000	840	230	800	--	--	--	--	
10/5/1992	--	166.20	20.52	--	145.68	1,400	440	17	14	100	--	--	--	--	
1/13/1993	--	166.20	--	--	--	11,000	1,200	1,600	330	1,300	--	--	--	--	c,i
1/13/1993	--	166.20	12.92	--	153.28	11,000	1,200	1,700	340	1,400	--	--	--	--	i
4/23/1993	--	166.20	14.08	--	152.12	24,000	2,800	4,500	730	3,400	--	--	--	--	i
7/12/1993	--	166.20	--	--	--	10,000	1,200	900	310	1,200	--	--	--	--	c
7/12/1993	--	166.20	18.44	--	147.76	13,000	1,400	1,100	360	1,400	20.8	--	--	--	i
10/21/1993	--	166.20	21.81	--	143.50	--	--	--	--	--	--	--	--	--	
11/2/93-4/29/97	--	166.20	--	0.10	--	--	--	--	--	--	--	--	--	--	
1/21/1994	--	166.20	19.28	--	146.92	--	--	--	--	--	--	--	--	--	
4/20/1994	--	166.20	19.72	--	146.48	43,000	2,800	6,800	1,300	7,900	768	1.7	--	--	i
4/20/1994	--	166.20	--	--	--	45,000	2,700	6,800	1,200	8,200	740	--	--	--	c,d
8/1/1994	--	166.20	20.18	--	146.02	--	--	--	--	--	--	--	--	--	
12/23/1994	--	166.20	14.22	--	151.98	--	--	--	--	--	--	--	--	--	
1/26/1995	--	166.20	11.85	--	154.35	--	--	--	--	--	--	--	--	--	
6/8/1995	--	166.20	18.33	--	147.87	--	--	--	--	--	--	--	--	--	
8/22/1995	--	166.20	19.95	--	146.25	--	--	--	--	--	--	--	--	--	
10/27/1995	--	166.20	20.88	--	145.32	--	--	--	--	--	--	--	--	--	
1/25/1996	--	166.20	13.84	--	152.36	--	--	--	--	--	--	--	--	--	
4/19/1996	--	166.20	--	--	--	--	--	--	--	--	--	--	--	--	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-9 Cont.															
7/23/1996	--	166.20	18.84	--	147.36	--	--	--	--	--	--	--	--	--	
11/11/1996	--	166.20	19.91	--	146.29	--	--	--	--	--	--	--	--	--	
1/21/1997	--	166.20	12.93	--	153.27	--	--	--	--	--	--	--	--	--	
4/29/1997	--	166.20	18.03	0.1	148.17	--	--	--	--	--	--	--	--	--	t
4/30/1997	--	166.20	--	--	--	78,000	1,900	3,600	3,100	20,600	<5000	5.5	--	--	
8/21/1997	--	166.20	19.56	--	146.64	110,000	2,100	3,400	2,300	18,800	<500	5.1	--	--	
11/5/1997	--	166.20	20.59	0.01	145.60	59,000	1,400	1,700	2,200	17,000	<500	4.5	--	--	
2/3/1998	--	166.20	10.56	--	155.64	55,000	490	1,200	1,400	10,200	<1000	4.9	--	--	
5/28/1998	--	166.20	14.21	--	151.99	41,000	250	1,200	1,500	11,400	<250	3.8	--	--	
5/28/1998	--	166.20	--	--	--	53,000	290	830	1,400	10,500	<500	--	--	--	c
12/30/1998	--	166.20	15.61	--	150.59	83,000	860	1,300	2,400	21,000	180	--	--	--	
2/2/1999	--	166.20	12.33	--	153.87	75,000	530	960	1,900	17,000	<50	--	--	--	
5/10/1999	--	166.20	15.67	--	150.53	22,000	600	1,500	1,100	4,400	72	--	--	--	
8/24/1999	--	166.20	19.10	--	147.10	85,000	850	1,300	1,700	20,000	<250	--	--	--	
11/3/1999	--	166.20	19.58	--	146.62	72,000	700	780	1,900	19,000	<5.0	--	--	--	
3/1/2000	--	166.20	13.19	--	153.01	34,000	78	490	1,100	8,200	63	--	--	--	
4/21/2000	--	166.20	14.29	--	151.91	55,000	260	920	1,500	16,000	<5.0	--	--	--	
7/31/2000	--	166.20	15.01	--	151.19	1,200,000	1,500	6,300	15,000	120,000	1,600	--	--	--	
11/20/2000	--	166.20	18.23	--	147.97	320,000	3,500	19,000	5,000	40,000	3,900	--	--	--	
2/18/2001	--	166.20	13.14	--	153.06	32,000	290	417	1,180	10,400	121	--	--	--	
6/7/2001	--	166.20	17.41	--	148.79	96,000	421	704	2,330	17,300	223	--	--	--	
9/5/2001	--	166.20	20.56	--	145.64	39,000	445	323	1,240	8,940	310	--	--	--	
11/30/2001	--	166.20	17.42	--	148.78	60,000	310	586	1,890	14,200	285	--	--	--	
2/20/2002	--	166.20	13.87	--	152.33	14,000	64	122	897	2,650	293	--	--	--	
6/20/2002	--	166.20	18.22	--	147.98	29,000	307	168	1,100	5,670	208	--	--	--	
9/11/2002	--	166.20	20.27	--	145.93	230,000	1,400	680	3,600	23,000	<2500	--	--	--	
11/12/2002	--	166.20	19.40	--	146.80	840	5.8	3.6	28	160	21	--	--	--	t
1/29/2003	--	166.20	14.30	0.1	151.80	--	--	--	--	--	--	--	--	--	j,n
5/22/2003	--	166.20	15.16	--	151.04	23,000	260	<50	1,000	2,900	<50	--	--	--	t
6/24/2003	--	166.20	--	--	--	--	--	--	--	--	--	--	--	--	e
7/28/2003	--	166.20	19.55	<0.01	146.65	1,500,000	<500	<500	9,800	79,000	<500	--	--	--	

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-9 Cont.															
8/12/2003	--	166.20	19.60	<0.01	146.60	--	--	--	--	--	--	--	--	--	o,t
9/12/2003	--	166.20	19.60	<0.01	146.60	--	--	--	--	--	--	--	--	--	o,t
11/18/2003	P	166.20	18.98	<0.01	147.22	19,000	250	18	690	2,400	45	--	SEQM	6.8	o,p
12/31/2003	--	166.20	--	<0.01	--	--	--	--	--	--	--	--	--	--	
2/2/2004	--	166.20	--	<0.01	--	--	--	--	--	--	--	--	--	--	
02/23/2004	P	166.20	13.91	<0.01	152.29	91,000	<250	440	2,200	13,000	<250	--	SEQM	6.8	t
3/18/2004	--	166.20	--	<0.01	--	--	--	--	--	--	--	--	--	--	
4/13/2004	--	166.20	--	<0.01	--	--	--	--	--	--	--	--	--	--	
05/04/2004	P	166.20	18.11	<0.01	148.09	39,000	230	44	1,100	4,200	<25	--	SEQM	6.9	t
6/2/2004	--	166.20	--	<0.01	--	--	--	--	--	--	--	--	--	--	
08/04/2004	--	166.20	18.90	0.03	147.32	--	--	--	--	--	--	--	--	--	
09/22/2004	NP	166.20	19.69	--	146.51	--	--	--	--	--	--	--	--	--	
11/10/2004	NP	166.20	16.95	--	149.25	31,000	300	<50	1,100	3,800	<50	--	SEQM	7.3	t
02/15/2005	P	166.20	12.95	--	153.25	19,000	200	<50	720	2,000	<50	--	SEQM	7.3	t
05/16/2005	P	166.20	12.53	--	153.67	17,000	99	15	770	2,500	<10	--	SEQM	6.7	
08/17/2005	P	166.20	18.03	--	148.17	28,000	160	26	1,000	2,700	<12	--	SEQM	6.8	
11/18/2005	P	166.20	19.04	--	147.16	12,000	98	<5.0	410	510	19	--	SEQM	7.1	
02/07/2006	P	166.20	10.95	SHEEN	155.25	18,000	110	8.7	770	1,500	<5.0	--	SEQM	6.9	t
5/19/2006	--	166.20	--	--	--	--	--	--	--	--	--	--	--	--	e
8/23/2006	P	166.20	18.91	--	147.29	28,000	84	<50	1,600	6,200	<50	--	TAMC	7.3	
11/15/2006	P	166.20	18.60	--	147.60	8,200	44	<25	190	370	26	0.92	TAMC	6.88	
2/14/2007	P	166.20	13.30	--	152.90	20,000	64	<25	720	2,000	<25	0.87	TAMC	7.17	t
5/22/2007	P	166.20	16.14	SHEEN	150.06	16,000	80	<25	460	1,200	<25	0.81	TAMC	7.08	t
8/15/2007	P	166.20	19.31	SHEEN	146.89	5,900	27	<2.5	59	170	27	2.57	TAMC	6.98	
11/8/2007	P	166.20	18.70	--	147.50	6,100	29	<5.0	98	250	52	1.24	TAMC	7.47	
2/20/2008	--	166.20	12.79	0.03	153.43	--	--	--	--	--	--	--	--	--	b, j
5/7/2008	--	166.20	17.68	0.03	148.54	--	--	--	--	--	--	--	--	--	b, j
8/20/2008	--	166.20	19.75	0.01	146.46	--	--	--	--	--	--	--	--	--	b
11/17/2008	P	166.20	18.73	--	147.47	10,000	24	<2.5	160	140	33	--	CEL	6.64	w
2/25/2009	**P**	**166.20**	**11.23**	**SHEEN**	**154.97**	**14,000**	**60**	**<10**	**550**	**140**	**<10**	**2.27**	**CEL**	**6.69**	**t**

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															
3/7/1991	--	167.01	18.09	--	148.92	1.6	120	190	32	230	--	--	--	--	
4/1/1991	--	167.01	13.92	--	153.09	--	--	--	--	--	--	--	--	--	
6/27/1991	--	167.01	--	--	--	12,000	7,300	500	150	300	--	--	--	--	
9/27/1991	--	167.01	--	--	--	57	12,000	7,200	1,400	4,600	--	--	--	--	
12/18/1991	--	167.01	--	--	--	5.3	2,500	120	36	79	--	--	--	--	
7/3/1992	--	167.01	19.92	--	147.09	8,600	5,100	1,300	180	690	--	--	--	--	
10/5/1992	--	167.01	21.92	--	145.09	--	--	--	--	--	--	--	--	--	
1/13/1993	--	167.01	14.43	--	152.58	--	--	--	--	--	--	--	--	--	
4/23/1993	--	167.01	15.26	--	151.75	--	--	--	--	--	--	--	--	--	
7/12/1993	--	167.01	19.78	--	147.23	--	--	--	--	--	--	--	--	--	
10/21/1993	--	167.01	22.90	--	144.11	--	--	--	--	--	--	--	--	--	
1/21/1994	--	167.01	20.25	--	146.76	--	--	--	--	--	--	--	--	--	
4/20/1994	--	167.01	20.74	--	146.27	100,000	12,000	24,000	2,400	14,000	1,577	1	--	--	d,i
8/1/1994	--	167.01	22.00	--	145.01	--	--	--	--	--	--	--	--	--	
12/23/1994	--	167.01	16.08	--	150.93	--	--	--	--	--	--	--	--	--	
1/26/1995	--	167.01	13.68	--	153.33	--	--	--	--	--	--	--	--	--	
6/8/1995	--	167.01	19.08	--	147.93	--	--	--	--	--	--	--	--	--	
8/22/1995	--	167.01	20.73	--	146.28	--	--	--	--	--	--	--	--	--	
10/27/1995	--	167.01	21.69	--	145.32	--	--	--	--	--	--	--	--	--	
1/25/1996	--	167.01	15.05	--	151.96	--	--	--	--	--	--	--	--	--	
4/19/1996	--	167.01	16.26	--	150.75	--	--	--	--	--	--	--	--	--	
7/23/1996	--	167.01	20.18	--	146.83	--	--	--	--	--	--	--	--	--	
9/4/1996	--	167.01	--	0.76	--	--	--	--	--	--	--	--	--	--	
11/11/1996	--	167.01	21.20	--	145.81	--	--	--	--	--	--	--	--	--	
1/21/1997	--	167.01	13.66	--	153.35	--	--	--	--	--	--	--	--	--	
4/29/1997	--	167.01	18.71	--	148.30	--	--	--	--	--	--	--	--	--	
4/30/1997	--	167.01	--	--	--	170,000	9,700	38,000	4,700	30,500	<5000	5.6	--	--	
8/21/1997	--	167.01	20.19	--	146.82	170,000	9,500	35,000	4,300	27,100	<5000	5.3	--	--	
11/5/1997	--	167.01	20.52	--	146.49	80,000	3,800	12,000	2,700	15,700	<500	4.4	--	--	
12/2/1997	--	167.01	--	0.03	--	--	--	--	--	--	--	--	--	--	
2/3/1998	--	167.01	10.62	--	156.39	--	--	--	--	--	--	--	--	--	

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.															
2/4/1998	--	167.01	--	--	--	72,000	500	1,300	1,700	12,000	<1000	5.1	--	--	
5/28/1998	--	167.01	15.46	--	151.55	220,000	3,200	24,000	5,200	43,000	<1000	4.8	--	--	
12/30/1998	--	167.01	16.65	--	150.36	110,000	3,500	14,000	5,800	50,000	<50	--	--	--	
2/2/1999	--	167.01	14.58	--	152.43	74,000	1,000	2,800	1,000	26,000	860	--	--	--	
5/10/1999	--	167.01	15.72	--	151.29	81,000	2,800	2,800	3,000	17,000	220	--	--	--	
8/24/1999	--	167.01	19.85	--	147.16	54,000	3,500	3,800	1,500	9,100	<250	--	--	--	
11/3/1999	--	167.01	20.00	--	147.01	30,000	3,000	3,500	1,200	5,000	31	--	--	--	
3/1/2000	--	167.01	14.62	--	152.39	62,000	320	1,200	1,100	26,000	4,400	--	--	--	
4/21/2000	--	167.01	15.46	--	151.55	88,000	2,700	7,400	3,700	35,000	2,400	--	--	--	
7/31/2000	--	167.01	--	--	--	--	--	--	--	--	--	--	--	--	e
11/20/2000	--	167.01	18.74	--	148.27	78,000	3,800	5,500	2,800	13,000	450	--	--	--	
2/18/2001	--	167.01	14.10	--	152.91	39,000	1,050	1,160	1,550	14,700	4,180	--	--	--	
6/7/2001	--	167.01	18.78	--	148.23	76,000	2,460	2,840	3,330	20,700	635	--	--	--	
9/5/2001	--	167.01	21.40	0.01	145.60	25,000	2,510	2,070	1,090	4,540	189	--	--	--	
11/30/2001	--	167.01	18.50	--	148.51	100,000	2,480	5,720	3,890	22,800	325	--	--	--	
2/20/2002	--	167.01	14.39	--	152.62	49,000	2,170	3,070	1,960	12,300	1,090	--	--	--	
6/20/2002	--	167.01	18.80	--	148.21	44,000	2,040	3,050	1,690	8,430	224	--	--	--	
9/11/2002	--	167.01	20.52	--	146.49	28,000	1,200	2,700	1,400	6,800	<250	--	--	--	
11/12/2002	--	167.01	20.37	0.07	146.57	--	--	--	--	--	--	--	--	--	j
1/29/2003	--	167.01	16.33	0.03	150.65	--	--	--	--	--	--	--	--	--	j,n
5/22/2003	--	167.01	16.32	--	150.69	13,000	2,100	850	630	1,600	300	--	--	--	t
6/24/2003	--	167.01	18.73	0.04	148.24	--	--	--	--	--	--	--	--	--	o
7/28/2003	--	167.01	20.39	0.04	146.58	--	--	--	--	--	--	--	--	--	j
8/12/2003	--	167.01	20.43	<0.01	146.58	--	--	--	--	--	--	--	--	--	o,t
9/12/2003	--	167.01	20.41	--	146.60	--	--	--	--	--	--	--	--	--	o
10/3/2003	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
11/18/2003	P	167.01	19.55	<0.01	147.46	9,900	2,200	530	320	860	<50	--	SEQM	6.8	o,p
12/31/2003	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
2/2/2004	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
02/23/2004	P	167.01	15.45	<0.01	151.56	46,000	1,900	2,000	1,800	9,000	180	--	SEQM	6.7	t
3/18/2004	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	

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.															
4/13/2004	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
05/04/2004	P	167.01	18.81	<0.01	148.20	35,000	3,100	3,600	1,400	5,600	<25	--	SEQM	7.1	t
6/2/2004	--	167.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	
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
5/7/2008	P	167.01	18.61	--	148.40	16,000	970	150	770	2,000	<20	2.18	CEL	6.98	t
8/20/2008	--	167.01	20.71	0.01	146.31	--	--	--	--	--	--	--	--	--	b
11/17/2008	P	167.01	19.71	--	147.30	10,000	960	57	270	720	23	--	CEL	6.54	t, w
2/25/2009	**P**	**167.01**	**13.10**	**--**	**153.91**	**2,900**	**53**	**14**	**69**	**160**	**170**	**4.06**	**CEL**	**6.68**	
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

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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.															
10/21/1993	--	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
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

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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				
RW-1 Cont.															
6/8/1995	--	168.01	20.05	--	147.96	1,300	130	<1.0	<1.0	36	--	--	--	--	
8/22/1995	--	168.01	--	--	--	2,800	210	9.3	4.3	250	<25	--	--	--	c
8/22/1995	--	168.01	21.74	--	146.27	3,300	230	13	4.9	280	<25	6.6	--	--	d
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	--	--	--	
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	--	--	--	270	42	17	2.7	36	1,500	--	--	--	c
1/21/1997	--	168.01	14.20	--	153.81	260	40	16	2.7	34	1,500	6.1	--	--	
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	--	--	--	

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.															
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
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

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.															
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	--	--	--	--	--	--	--	--	--	--	
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
5/7/2008	--	168.01	--	--	--	--	--	--	--	--	--	--	--	--	e
8/20/2008	--	168.01	21.34	0.02	146.69	--	--	--	--	--	--	--	--	--	b
11/17/2008	P	168.01	20.41	--	147.60	13,000	120	<20	590	320	120	--	CEL	6.47	w
2/25/2009	**--**	**168.01**	**13.40**	**0.02**	**154.63**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**b**

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
CEL = Calscience Environmental Laboratories

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

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

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

Values for DO and pH were obtained through field measurements.

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

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	
11/17/2008	<6,000	350	590	<10	<10	27	<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	
11/17/2008	<6,000	1,800	320	<10	<10	<10	<10	<10	
2/25/2009	**<150,000**	**<5,000**	**<250**	**<250**	**<250**	**<250**	**<250**	**<250**	
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	

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-3 Cont.									
2/14/2007	<300	<20	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	u
2/20/2008	<100	<10	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	**<300**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-4									
1/29/2003	<40	<20	66	<0.50	<0.50	<0.50	<0.50	<0.50	
02/23/2004	<100	<20	65	<0.50	<0.50	<0.50	<0.50	<0.50	
02/15/2005	<100	<20	62	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	29	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	61	<0.50	<0.50	<0.50	<0.50	<0.50	
2/20/2008	<100	<10	36	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	**<300**	**<10**	**26**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
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	

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-5 Cont.									
8/15/2007	<6,000	<400	280	<10	<10	<10	<10	<10	
11/8/2007	<1,500	310	270	<2.5	<2.5	<2.5	<2.5	<2.5	
2/20/2008	<1,000	<100	43	<5.0	<5.0	<5.0	<5.0	<5.0	
5/7/2008	<6,000	<200	30	<10	<10	<10	<10	<10	
8/20/2008	<1,200	270	260	<2.0	<2.0	3.0	<2.0	<2.0	
2/25/2009	**<300**	**110**	**68**	**<0.50**	**<0.50**	**0.62**	**<0.50**	**<0.50**	
MW-6									
05/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/20/2008	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	**<300**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
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	
2/25/2009	**<12,000**	**<400**	**540**	**<20**	**<20**	**<20**	**<20**	**<20**	
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	

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-8 Cont.									
5/19/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	b
8/23/2006	<15,000	<1,000	82	<25	<25	<25	<25	<25	
11/15/2006	<15,000	<1,000	110	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	82	<25	<25	<25	<25	<25	
5/22/2007	<6,000	<400	11	<10	<10	<10	<10	<10	
8/15/2007	<6,000	<400	28	<10	<10	<10	<10	<10	
11/8/2007	<15,000	<1,000	27	<25	<25	<25	<25	<25	
2/25/2009	**<6,000**	**<200**	**35**	**<10**	**<10**	**<10**	**<10**	**<10**	
MW-9									
5/22/2003	<10000	<2000	<50	<50	<50	<50	--	--	
7/28/2003	<100000	<20000	<500	<500	<500	<500	<500	<500	
11/18/2003	<2,000	<400	45	<10	<10	<10	--	--	a,b
02/23/2004	<50,000	<10,000	<250	<250	<250	<250	<250	<250	
05/04/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/10/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
02/15/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
05/16/2005	<2,000	<400	<10	<10	<10	<10	<10	<10	
08/17/2005	<2,500	<500	<12	<12	<12	<12	<12	<12	
11/18/2005	<1,000	<200	19	<5.0	<5.0	<5.0	<5.0	<5.0	b
02/07/2006	<3,000	<200	<5.0	<5.0	<5.0	5.4	<5.0	<5.0	
8/23/2006	<30,000	<2,000	<50	<50	<50	<50	<50	<50	
11/15/2006	<15,000	<1,000	26	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
5/22/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
8/15/2007	<1,500	<100	27	<2.5	<2.5	<2.5	<2.5	<2.5	b
11/8/2007	<3,000	<200	52	<5.0	<5.0	<5.0	<5.0	<5.0	
11/17/2008	<1,500	<50	33	<2.5	<2.5	<2.5	<2.5	<2.5	
2/25/2009	**<6,000**	**<200**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	
MW-10									
5/22/2003	<10000	<2000	300	<50	<50	<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-10 Cont.									
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	
8/15/2007	<6,000	<400	<10	<10	<10	<10	<10	<10	
11/8/2007	<3,000	<200	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	
5/7/2008	<12,000	<400	<20	<20	<20	<20	<20	<20	
11/17/2008	<12,000	<400	23	<20	<20	<20	<20	<20	
2/25/2009	**<6,000**	**280**	**170**	**<10**	**<10**	**<10**	**<10**	**<10**	
RW-1									
11/18/2003	<10,000	11,000	6,100	<50	<50	160	--	--	a,b
11/17/2008	<12,000	<400	120	<20	<20	<20	<20	<20	

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
5/7/2008	South-Southwest	0.003
8/20/2008	South-Southwest	0.007
11/17/2008	South-Southwest	0.005
2/25/2009	**Southeast**	**0.01**

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
MW-1	5/22/2003	0.20	0.140	35.970

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	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
MW-1	12/12/2007	0.01	1.5	49.266
MW-1	1/14/2008	0.01	3.0	52.266

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	2/27/2008	--	2.0	54.266
MW-1	4/1/2008	0.01	5.0	59.266
MW-1	5/7/2008	0.02	*	59.266
MW-1	5/20/2008	0.00	1.0	60.266
MW-1	6/18/2008	0.00	4.5	64.766
MW-1	7/16/2008	0.01	2.0	66.766
MW-1	8/13/2008	0.02	9.0	75.766
MW-1	8/20/2008	0.02	0.0	75.766
MW-1	9/15/2008	0.04	3.0	78.766
MW-1	10/15/2008	0.01	8.0	86.766
MW-1	11/17/2008	0.00	0.0	86.766
MW-1	12/18/2008	0.00	0.0	86.766
MW-1	**1/14/2009**	**0.01**	**2.0**	**88.766**
MW-1	**2/4/2009**	**0.01**	**4.0**	**92.766**
MW-1	**2/25/2009**	**0.02**	**1.0**	**93.766**
MW-1	**3/11/2009**	**0.01**	**2.5**	**96.266**
MW-2	4/1/2008	0.01	1.5	1.500
MW-2	5/7/2008	0.04	*	1.500
MW-2	5/20/2008	0.00	1.0	2.500
MW-2	6/18/2008	0.00	2.5	5.000
MW-2	7/16/2008	0.01	1.5	6.500
MW-2	8/13/2008	<0.01 (SHEEN)	4.0	10.500
MW-2	8/20/2008	0.01	0.0	10.500
MW-2	9/15/2008	0.00	0.0	10.500
MW-2	10/15/2008	0.01	1.0	11.500
MW-2	11/17/2008	<0.01 (SHEEN)	0.0	11.500
MW-2	12/18/2008	0.00	0.0	11.500
MW-2	**1/14/2009**	**0.00**	**0.0**	**11.500**
MW-2	**2/4/2009**	**0.00**	**0.0**	**11.500**
MW-2	**2/25/2009**	**0.00**	**0.0**	**11.500**
MW-2	**3/11/2009**	**0.00**	**0.0**	**11.500**
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

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-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
MW-8	4/1/2008	NM	NM	1.770
MW-8	5/7/2008	NM	NM	1.770
MW-8	5/20/2008	0.00	0.000	1.770
MW-8	6/18/2008	0.00	0.000	1.770
MW-8	7/16/2008	0.00	0.000	1.770
MW-8	8/13/2008	0.00	0.000	1.770
MW-8	8/20/2008	0.01	0.000	1.770
MW-8	9/15/2008	NM	NM	1.770
MW-8	10/15/2008	0.01	1.000	2.770
MW-8	11/17/2008	NM	NM	2.770
MW-8	12/18/2008	0.00	0.000	2.770
MW-8	**1/14/2009**	**NM**	**NM**	**2.770**
MW-8	**2/4/2009**	**NM**	**NM**	**2.770**
MW-8	**2/25/2009**	**<0.01 (Sheen)**	**0.000**	**2.770**
MW-8	**3/11/2009**	**0.00**	**0.000**	**2.770**
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

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	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
MW-9	4/1/2008	0.00	0.000	1.120
MW-9	5/7/2008	0.03	*	1.120
MW-9	5/20/2008	0.00	0.000	1.120
MW-9	6/18/2008	0.00	0.000	1.120
MW-9	7/16/2008	0.00	0.000	1.120
MW-9	8/13/2008	0.00	0.000	1.120
MW-9	8/20/2008	0.01	0.000	1.120
MW-9	9/15/2008	0.01	1.000	2.120
MW-9	10/15/2008	0.00	0.000	2.120
MW-9	11/17/2008	0.00	0.000	2.120
MW-9	12/18/2008	0.00	0.000	2.120

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-9	**1/14/2009**	**0.00**	**0.000**	**2.120**
MW-9	**2/4/2009**	**0.01**	**1.500**	**3.620**
MW-9	**2/25/2009**	**<0.01 (Sheen)**	**0.000**	**3.620**
MW-9	**3/11/2009**	**0.00**	**0.000**	**3.620**
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

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	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
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
MW-10	4/1/2008	0.00	0.000	11.110
MW-10	5/7/2008	0.00	0.000	11.110
MW-10	5/20/2008	0.00	0.000	11.110
MW-10	6/18/2008	0.00	0.000	11.110
MW-10	7/16/2008	0.01	1.500	12.610
MW-10	8/13/2008	0.01	2.000	14.610
MW-10	8/20/2008	0.01	0.000	14.610
MW-10	9/15/2008	0.00	0.000	14.610
MW-10	10/15/2008	0.01	1.000	15.610
MW-10	11/17/2008	0.00	0.000	15.610
MW-10	12/18/2008	0.00	0.000	15.610
MW-10	**1/14/2009**	**0.00**	**0.000**	**15.610**
MW-10	**2/4/2009**	**0.00**	**0.000**	**15.610**
MW-10	**2/25/2009**	**0.00**	**0.000**	**15.610**
MW-10	**3/11/2009**	**0.00**	**0.000**	**15.610**
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

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	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
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
RW-1	4/1/2008	0.01	1.5	21.508
RW-1	5/7/2008	NM	NM	21.508
RW-1	5/20/2008	0.00	2.0	23.508
RW-1	6/18/2008	0.00	3.0	26.508
RW-1	7/16/2008	0.02	4.0	30.508
RW-1	8/13/2008	0.01	7.0	37.508
RW-1	8/20/2008	0.02	0.0	37.508
RW-1	9/15/2008	0.02	4.0	41.508
RW-1	10/15/2008	0.03	3.0	44.508
RW-1	11/17/2008	0.00	0.0	44.508
RW-1	12/18/2008	0.00	0.0	44.508
RW-1	**1/14/2009**	**0.01**	**3.0**	**47.508**
RW-1	**2/4/2009**	**0.01**	**3.5**	**51.008**
RW-1	**2/25/2009**	**0.02**	**4.0**	**55.008**
RW-1	**3/11/2009**	**0.01**	**3.5**	**58.508**
		Free Product Removed this Quarter =		**25.0**
		Total Free Product =		**188.274**

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)

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.

Table 5. Bio-Degradation Parameters

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

Well and Sample Date	pH	ORP (mV)	Total Alkalinity (µg/L)	DO (mg/L)	Nitrate NO3 (µg/L)	Sulfate SO4 (µg/L)	Soluble Sulfide (µg/L)	CO2 (µg/L)	Methane (µg/L)	Manganese (µg/L)	Ferrous Iron (mg/L)	Comments
MW-1												
11/17/2008	6.60	126	426,000	--	<100	<1,000	<50	65,000	4,830	2,750	3400.0	DO meter not working
MW-2												
11/17/2008	6.46	111	838,000	--	<100	1,100	<50	98,500	5,350	6,380	7300.0	DO meter not working
2/25/2009	**6.50**	**-8**	**846,000**	**2.11**	**<100**	**5,100**	**<50**	**294,000**	**3,480**	**5,380**	**8600.0**	
MW-3												
2/25/2009	**7.09**	**78**	**146,000**	**3.45**	**1,600**	**29,000**	**<50**	**17,400**	**<1.0**	**18.5**	**<100**	
MW-4												
2/25/2009	**6.83**	**-23**	**244,000**	**2.80**	**3,800**	**42,000**	**<50**	**44,100**	**<1.0**	**<5.0**	**<100**	
MW-5												
8/20/2008	6.86	170	698,000	5.57	110	12,000	<50	1,660,000	35.5	6,310	<0.10	BV (S2-, FE)
2/25/2009	**6.65**	**23**	**352,000**	**4.38**	**220**	**7,700**	**<50**	**17,600**	**1.33**	**2,930**	**<100**	**BV (S2-, FE)**
MW-6												
2/25/2009	**7.09**	**16**	**196,000**	**2.39**	**2,200**	**55,000**	**<50**	**23,400**	**<1.0**	**17.6**	**<100**	
MW-7												
2/25/2009	**6.87**	**90**	**280,000**	**4.28**	**1,200**	**16,000**	**<50**	**36,000**	**<1.0**	**16.7**	**<100**	**BV (S2-, FE)**
MW-8												
2/25/2009	**6.98**	**19**	**702,000**	**2.18**	**100**	**4,700**	**<50**	**198,000**	**1,890**	**4,140**	**3000.0**	
MW-9												
11/17/2008	6.64	139	480,000	--	180	12,000	<50	19,500	1,290	3,190	3400.0	DO meter not working
2/25/2009	**6.69**	**-23**	**554,000**	**2.27**	**<100**	**1,900**	**<50**	**156,000**	**1,960**	**3,060**	**1900.0**	
MW-10												
11/17/2008	6.54	160	686,000	--	<100	1,700	<50	283,000	1,720	4,890	4700.0	DO meter not working
2/25/2009	**6.68**	**-33**	**572,000**	**4.06**	**290**	**13,000**	**<50**	**182,000**	**117**	**4,530**	**3700.0**	**BV (S2-, FE)**
RW-1												
11/17/2008	6.47	108	94,000	--	<100	<1,000	<50	35,800	3,780	581	990.0	DO meter not working

ABBREVIATIONS AND SYMBOLS:

< = Not detected at or above specified laboratory reporting limit
ORP = Oxygen reduction potential
DO = Dissolved oxygen
CO2 = Carbon dioxide
S2- = Soluble Sulfide
mV = Millivolts
µg/L = Micrograms per liter
mg/L = Milligrams per liter

BV = Sample received after holding time expired

APPENDIX A

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

STRATUS
ENVIRONMENTAL, INC.

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

April 1, 2009

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: Carol Huff / Jay Johnson
Phone Number: (530) 676-6000

On-Site Supplier Representative: Vince Zalutka

Monthly Gauging Date: December 18, 2008

Unusual Field Conditions: None noted.

Scope of Work Performed: Monthly Gauging and LPH Removal. All wells were gauged and LPH was removed and put in the hazardous waste drum located onsite. Field data sheets were submitted immediately following monthly gauging and LPH removal

Variations from Work Scope: This visit was not included with the Fourth Quarter 2008 Groundwater Sampling Data Package.

On-Site Supplier Representative: Vince Zalutka

Monthly Gauging Date: January 14, 2009

Unusual Field Conditions: None noted.

Scope of Work Performed: Monthly Gauging and LPH Removal. All wells were gauged and the LPH was removed and put in the hazardous waste drum located onsite. Field data sheets are submitted immediately following monthly gauging and LPH removal

Variations from Work Scope: Well MW-8 had a car parked over it during this event, therefore was not gauged.

On-Site Supplier Representatives: Vince Zalutka

Monthly Gauging Date: February 4, 2009

Unusual Field Conditions: None noted.

Scope of Work Performed: Monthly Gauging and LPH Removal. All wells were gauged and the LPH was removed and put in the hazardous waste drum located on-site. Field data sheets are submitted immediately following monthly gauging and LPH removal.

Variations from Work Scope: Well MW-8 had a car parked over it during this event, therefore was not gauged.

On-Site Supplier Representatives: Greg Wilkins and Vince Zalutka

Sampling Date: February 25, 2009

Unusual Field Conditions: None noted.

Scope of Work Performed: Quarterly monitoring and sampling and monthly gauging and LPH removal. LPH was removed and put in the hazardous waste drum located on-site. Field data sheets are submitted immediately following monthly gauging and LPH removal.

Variations from Work Scope: None noted.

On-Site Supplier Representatives: Vince Zalutka

Monthly Gauging Date: March 11, 2009

Unusual Field Conditions: None noted.

Scope of Work Performed: Monthly Gauging and LPH Removal. All wells were gauged and the LPH was removed and put in the hazardous waste drum located on-site. Field data sheets are submitted immediately following monthly gauging and LPH removal.

Variations from Work Scope: None noted.

This submittal presents the 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

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

Site Number 11132
Project No
Project PM
Date 12-18-08

0550-0700

Signature Vince Zalewski

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)	(M I X) Water/Product Gallons Purged	Bailer		Other	Sample I.D.	
RW-1		19.96				6	4.4	N/A				RW-1	
MW-1		21.43				2	0.5	N/A				MW-1	
MW-8		17.89				2	N/A	N/A					
MW-9		17.80				2	N/A	N/A					
MW-10		19.11				2	N/A	N/A					
MW-2		20.10				2	N/A	N/A					
		No Meas. Product this visit											
								Vince Zalewski					

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

STRATUS ENVIRONMENTAL, INC.

Site Address 3201 35th
City Oakland CA
Sampled by: Vince Z
Signature V. Zaletel

Site Number 1113 2
Project Number
Project PM
DATE 1-14-09

0530 - 0645

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	0616	18.65	18.66			6"			3 gal		Mix						
MW-1	0625	20.24	20.25			2"			2 gal		Mix						
MW-2	0611	N/A	19.08														
MW-8	—	N/A	N/A	Covered		by	car										
MW-9	0605	N/A	16.83														
MW-10	0556	N/A	18.01														
					Bailed	Product			Mix								
				3	DRUMS	@	SITE										
					1-1/3	Full											
					2	Empty											

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 (D always measured before purge)

CALIBRATION DATE
pH
Conductivity
DO

Product Purge

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

Site Number 11132
Project No
Project PM
Date 2-4-09

Signature Vince Zalewski

0530 0715

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)	(M I X) Water/Product Gallons Purged	Bailer		Other	Sample I.D.	
RW-1	18.52	18.53				6	4.4	3.5	X			RW-1	
~~MW-1~~	~~20.42~~	~~20.43~~				~~2~~	~~0.5~~					~~MW-1~~	
MW-2	N/A	18.95				2		X	N/A				
MW-8	Covered	by	a	car									
MW-9	16.98	16.99				2		1.5	X				
MW-10	N/A	17.88				2		X	N/A				
		Drums -		2	Empty								
				1	1/2 Full								

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

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

STRATUS ENVIRONMENTAL, INC.

Site Address 3201 35th
City OAKLAND, CA
Sampled by: Vince Z
Signature Vince Zaluetta

Site Number ARCO 11132
Project Number
Project PM
DATE 2-25-09

1220

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	0457	15.26	15.28				2		1		X						
RW-1	[redacted]	13.38	13.40				6		4		X						
	0502																
				Bail Product													
				2 empty 55 Drums @ site													
				1 ½ Full 55 Drum @ site													

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
Conductivity
DO

T:\Forms

STRATUS ENVIRONMENTAL, INC.

Site Address 3201 35th Ave.
City Oakland CA
Sampled by: C. Watkins / Y. Zelaya
Signature [signature] ORIGINAL

Site Number ARCO 11132
Project Number E11132-01
Project PM J. Johnson
DATE 02-25-09

onsite 0435 off 1215

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	0457	15.26	15.28	41.44	26.16	2	.5	13.08	0	X				N/A	MW-1	N/S	N/M
MW-2	0500		14.15	31.60	17.45	2	.5	8.73	8.5			X		15.73	MW-2	1100	2.11
MW-3	0505		11.77	33.00	21.23	2	.5	10.62	5.5			X		14.07	MW-3	1016	3.45
MW-4	0453		16.81	39.60	22.79	2	.5	11.40	7.5			X		17.40	MW-4	1150	2.80
MW-5	0507		14.82	31.76	20.64	2	.5	10.32	10.5			X		11.08	MW-5	0710	4.38
MW-6	0507		9.99	34.22	24.23	2	.5	12.11	8			X		10.30	MW-6	0947	2.39
MW-7	0520		14.89	34.50	19.61	2	.5	9.80	11			X		16.85	MW-7	0802	4.28
MW-8	0512		11.50	38.64	27.14	2	.5	13.57	10			X		11.79	MW-8	0838	2.18
MW-9	0509		11.23	27.40	16.17	2	.5	8.85	6					11.80	MW-9	0913	2.27
MW-10	0518		13.10	33.90	20.80	2	.5	10.4	11			X		13.69	MW-10	0608	4.06
RW-1	0502	13.38	13.40	38.80	25.40	6	4.4	12.9	0	X				N/A	RW-1	N/S	N/M
			Product on RW-1														
			" "		"	MW-1											
TB111320225 2009																0530	
									78 gal								

Multiplier * Caps were pulled prior to gauging wells
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 02-20-09
Conductivity
DO

T:\Forms

STRATUS
ENVIRONMENTAL, INC.

Site Address 3201 35th Ave.
City Oakland CA
Site Sampled by GW/VZ

ORIGINAL

Site Number ARCO 11132
Project No. E11132-01
Project PM J. Johnson
Date Sampled 02-25-09

Well ID MW-1

purge start time N/S

	Temp C	pH	cond	gallons
time	Product on well			
time				
time				
time				

purge stop time — PreORP — PostORP

Well ID MW-2 1100

purge start time 1033 ODOR

	DO	Temp C	pH	cond	gallons
time	2.11	20.2	6.58	344	0
time	2.41	20.6	6.60	334	2
time	2.39	20.6	6.54	309	4
time	2.73	20.7	6.53	306	6

pugre stop time 1101 PreORP -8 PostORP -22

See Next page for more

306

Well ID MW-3 1016

purge start time 1002 ODOR

	D/O	Temp C	pH	cond	gallons
time	3.45	20.4	7.07	156	0
time	3.36	20.6	7.04	156	2
time	3.35	20.6	7.11	157	4
time	2.99	20.9	7.09	156	5.5

purge stop time 1017 PreORP 78 PostORP 104

Well ID MW-4 1150

purge start time 1128 ODOR

See Below

	D/O	Temp C	pH	cond	gallons
time	2.80	20.7	6.64	171	0
time	2.77	20.7	6.78	178	2
time	2.60	20.5	6.82	181	4
time	2.86	20.2	6.81	177	6

purge stop time 1151 PreORP -23 PostORP 20

Well ID MW-5 0710

purge start time 0630 ODOR

See next page

	D/O	Temp C	pH	cond	gallons
time	4.38	14.5	6.97	116	0
time	4.60	13.8	6.70	61	2
time	4.66	15.2	6.50	105	4
time	4.60	16.9	6.54	177	6

purge stop time 0710 PreORP 23 POSTORP 86

Well ID MW-6 0947

purge start time 0930 ODOR

See Next Page

	D/O	Temp C	pH	cond	gallons
time	2.39	18.9	7.38	189	0
time	2.40	19.4	7.10	183	2
time	2.43	19.4	7.13	183	4
time	2.38	19.5	7.13	182	6

purge stop time 0949 PreORP 16 PostORP 71

Well ID MW-7 0802

purge start time 0731 ODOR

See next page

	D/O	Temp C	pH	cond	gallons
time	4.28	16.5	7.84	86	0
time	4.21	17.3	7.72	87	2
time	4.22	17.6	7.49	101	4
time	3.97	17.8	7.39	161	6

purge stop time 0803 PreOrp 90 PostORP 140

Well ID MW-8 0838

purge start time 0819 ODOR

See Next page

	D/O	Temp C	pH	cond	gallons
time	2.18	19.8	6.64	331	0
time	2.21	19.4	6.55	348	2
time	2.20	19.3	6.60	343	4
time	2.19	19.2	6.60	341	6

purge stop time 0839 PreORP 19 PostORP -13

MW-4 Cont.

2.84	20.7	6.83	180	7.5

STRATUS
ENVIRONMENTAL, INC.

Site Address 3201 35th st
City Oakland CA
Site Sampled by GW/VZ
ORIGINAL

Site Number ARCO 11132
Project No. E11132-01
Project PM J. Johnson
Date Sampled 02-25-09

Well ID MW-9 sheen 0913
purge start time 0856 ODOR

	D/O	Temp C	pH	cond	gallons
time	2.27	20.1	6.70	307	2
time	2.20	20.5	6.69	306	2
time	2.16	20.4	6.67	310	4
time	2.24	20.1	6.69	304	6

purge stop time 0914 PreORP -23 PostORP -25

Well ID MW-10
purge start time 0535 ODOR

	Temp C	pH	cond	gallons	D/O
time	19	6.69	435	2	4.06
time	19.2	6.65	396	2	3.09
time	18.9	6.70	387	4	2.87
time	19.0	6.70	376	5.5	2.80

purge stop time 0610 PreORP -33 PostORP -54

Well ID RW-1 N/S
purge start time

	Temp C	pH	cond	gallons
time	Production well			
time				
time				
time				

purge stop time PreORP PostORP

Well ID MW-10
purge start time

	Temp C	pH	cond	gallons	
time	19.2	6.67	372	7	2.50
time	19.0	6.71	362	9	2.48
time	19.2	6.68	359	11	2.41
time					

purge stop time

Well ID MW-5 cont.
purge start time

	D/O	Temp C	pH	cond	gallons
time	4.58	13.8	7.00	72	8
time	3.02	18.0	6.65	309	10.5
time					
time					

purge stop time 0710

Well ID MW-7 cont.
purge start time

	D/O	Temp C	pH	cond	gallons
time	3.34	18.1	7.08	193	8
time	2.67	18.3	6.87	283	11
time					
time					

purge stop time 0803

Well ID MW-8 cont...
purge start time sheen

	D/O	Temp C	pH	cond	gallons
time	2.16	19.3	6.58	330	10
time	~~MW-2 2.47 20.6 6.50 290 8.5 gal~~				
time					
time					

purge stop time 0839

Well ID MW-6 cont.
purge start time

	Temp C	pH	cond	gallons
time 2.45	19.4	7.09	180	8
time				
time ~~MW-2~~				
time				

purge stop time 0949

MW-2 cont.

2.47	20.6	6.50	290	8.5 gal

WELLHEAD OBSERVATION FORM

STRATUS ENVIRONMENTAL, INC

Site Name/Number: ARCO 11132 *Date:* 02-25-09 *Technican:* G. Wilkins / V. Zalutka

Well I.D.	Box in Good Condition? X = Yes Blank = No	Lock Missing? X = Yes (replaced) Blank = No	Water in Wellbox? X = Yes Blank = No	Water Level Relative to Cap? A = Above cap B = Below cap L = Level w/cap	Well Cap? I = Intact M = Missing or Compromised (replaced)	Bolts Missing? X = Yes Blank = No	Bolts Stripped? X = Yes Blank = No	Bolt Holes Stripped? X = Yes Blank = No	Cracked or Broken Lid? X = Yes Blank = No	Cracked or Broken Box? X = Yes Blank = No	Grout Level more than 1ft below TOC? X = Yes Blank = No	Additional Comments (such as missing lid, concrete needs replacement, or other - explain)
MW-1	X											
2	X											
3			X	A								
4		X	X	A				B				
5			X	A								
6	X		X									
7			X	A								
8	X											
9	X											
10			X	A								
RW-1	X											

DRUM INVENTORY

Drums on site? (Yes) No (circle)

Type and # Steel: 3 Plastic: _____

Note whether drums are full or empty, solids or liquids:

2 Full 1 partial

Drum label info (description, date, contact info):

Haz mat label water/gas mix

GENERAL SITE CONDITIONS

Make notes on housekeeping conditions (such as trash around remediation system enclosure/compound, bent or missing bollards, signs missing from compound fences, grafitti on compound, etc.)

(updated 3-28-08, SS)

NO. 673997

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

SITE:

EPA I.D. NO. NOT REQUIRED

NAME BP WEST COAST PRODUCTS LLC ARCO # 11??

PROFILE NO.

ADDRESS P.O. BOX 80249

RANCHO SANTA MARGARITA

CITY, STATE, ZIP CA 92688

PHONE NO. ( )

CONTAINERS: No. ______ VOLUME 7?? gal WEIGHT ______

TYPE: ☐ TANK TRUCK ☐ DUMP TRUCK ☐ DRUMS ☐ CARTONS ☐ OTHER ______

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS WELL PURGING/DECON WATER

	COMPONENTS OF WASTE	PPM	%		COMPONENTS OF WASTE	PPM	%
1.	WATER 99-100%			5.			
2.	TPH <1%			6.			
3.				7.	BESI#		
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 BESI for BP — ?-2-??

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TRANSPORTER

Transporter #1 Transporter #2

NAME STRATUS ENVIRONMENTAL

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

TRUCK, UNIT, I.D. NO.

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TSD FACILITY

NAME INSTRAT, INC

EPA I.D. NO.

DISPOSAL METHOD

ADDRESS 1105 AIRPORT RD #C

☐ LANDFILL ☐ OTHER ______

CITY, STATE, ZIP RIO VISTA, CA 94571

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

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program LaMP **Chain of Custody Record**

BP/ARC Project Name: ARCO 11132

BP/ARC Facility No: ORIGINAL 11132

Req Due Date (mm/dd/yy): Std TAT Rush TAT: Yes ___ No X

Lab Work Order Number:

Lab Name:	Cal Science
Lab Address:	7440 Lincoln Way
Lab PM:	Richard Villafania
Lab Phone:	714-895-5494 / 714-895-7501 (fax)
Lab Shipping Accnt:	
Lab Bottle Order No.	
Other Info:	
BP/ARC EBM:	Paul Supple
EBM Phone:	925-275-3506
EBM Email:	paul.supple@bp.com

BP/ARC Facility Address:	3201 35th Avenue
City, State, ZIP Code:	Oakland, CA
Lead Regulatory Agency:	Alameda County
California Global ID No.:	10600100213
Enfos Proposal No.	
Accounting Mode:	Provision X OOC-BU ___ OOC-RM ___
Stage:	1st Qrtr Activity: QM

Consultant/Contractor:	Stratus Environmental
Consultant/Contractor Project No.	E11132-QM/O&M
Address:	3330 Cameron Park Dr., Cameron Park, CA 95682
Consultant/Contractor PM:	Jay Johnson
Phone:	530-676-6000 / 530-676-6005 (fax)
Email EDD To:	chuff@stratusinc.net
Invoice To:	BP/ARC ___ Contractor ___

Lab No.	Sample Description	Date (2009)	Time	Soil / Solid	Water / Liquid	Air / Vapor		Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	Methanol		GRO by 8015M	BTEX *	5oxy's *	EDB *	1,2DCA *	Ethanol *		** See Column		
	MW-2	02-25	1100		X			13				X			X	X	X	X	X	X		X		
	MW-3	↓	1016		↓			↓				↓			↓	↓	↓	↓	↓	↓		↓		
	MW-4	↓	1150		↓			↓				↓			↓	↓	↓	↓	↓	↓		↓		
	MW-5	↓	0710		↓			↓				↓			↓	↓	↓	↓	↓	↓		↓		
	MW-6	↓	0947		↓			↓				↓			↓	↓	↓	↓	↓	↓		↓		
	MW-7	↓	0802		↓			↓				↓			↓	↓	↓	↓	↓	↓		↓		
	MW-8	↓	0838		↓			↓				↓			↓	↓	↓	↓	↓	↓		↓		
	MW-9	↓	0913		↓			↓				↓			↓	↓	↓	↓	↓	↓		↓		
	MW-10	↓	0608		↓			↓				↓			↓	↓	↓	↓	↓	↓		↓		
	TB11132 0225 2009	↓	0530		↓			2				↓												

Report Type & QC Level

Standard ___

Full Data Package ___

* by 8260

Comments

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

** Nitrate & Sulfate EPA 300

Ferrous Iron & Manganese EPA 200.7

Disolved Sulfide EPA 376.2

Methane & Carbon Dioxide RSK 175

Alkalinity EPA 310.1

ON HOLD

Sampler's Name: G. Wilkins / N. Zalutka

Sampler's Company: Stratus

Shipment Method: GSO Ship Date: 02-25-09

Shipment Tracking No:

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
[signature]	022509	1500			

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

THIS LINE - LAB USE ONLY: 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

STRATUS ENVIRONMENTAL, INC.

Site Address 3201 35th AVE
City OAKLAND, CA
Sampled by: Vince Z
Signature Vince Zaluetta

Site Number 11132
Project Number
Project PM
DATE 3-11-09

0730 - 0900

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	0837	14.64	14.65			2			2.5		X						
MW-2	0812	N/A	13.29			2				V							
MW-8	0748	N/A	10.67			2				X							
MW-9	0817	N/A	10.87			2				X							
MW-10	0900	N/A	12.20			2				X							
RW-1	0821	12.58	12.59			6			3.5		X						
					Bailed mix product												
					3 Drums												
					2- Empty												
					1- 3/4 Full												

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

32+

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
Conductivity
DO

Calscience
Environmental
Laboratories, Inc.

March 11, 2009

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

Subject: **Calscience Work Order No.:** **09-02-2293**
Client Reference: **ARCO 11132**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/26/2009 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,

Calscience Environmental
Laboratories, Inc.
Richard Villafania
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: RSK-175M

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	**09-02-2293-1-I**	**02/25/09 11:00**	**Aqueous**	**GC 14**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	294000	170	100		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	**09-02-2293-2-I**	**02/25/09 10:16**	**Aqueous**	**GC 14**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	17400	17.0	10		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**09-02-2293-3-I**	**02/25/09 11:50**	**Aqueous**	**GC 14**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	44100	17.0	10		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**09-02-2293-4-I**	**02/25/09 07:10**	**Aqueous**	**GC 14**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	17600	17.0	10		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**09-02-2293-5-I**	**02/25/09 09:47**	**Aqueous**	**GC 14**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	23400	17.0	10		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	**09-02-2293-6-I**	**02/25/09 08:02**	**Aqueous**	**GC 14**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	36000	17.0	10		ug/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: RSK-175M

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**09-02-2293-7-I**	**02/25/09 08:38**	**Aqueous**	**GC 14**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	198000	170	100		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	**09-02-2293-8-I**	**02/25/09 09:13**	**Aqueous**	**GC 14**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	156000	170	100		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**09-02-2293-9-I**	**02/25/09 06:08**	**Aqueous**	**GC 14**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	182000	170	100		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-659-51**	**N/A**	**Aqueous**	**GC 14**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	ND	1.70	1		ug/L

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

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Work Order No: 09-02-2293
Preparation: N/A
Method: RSK-175M

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	**09-02-2293-1-H**	**02/25/09 11:00**	**Aqueous**	**GC 52**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Methane	3480	20.0	20		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	**09-02-2293-2-G**	**02/25/09 10:16**	**Aqueous**	**GC 52**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Methane	ND	1.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**09-02-2293-3-G**	**02/25/09 11:50**	**Aqueous**	**GC 52**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Methane	ND	1.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**09-02-2293-4-G**	**02/25/09 07:10**	**Aqueous**	**GC 52**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Methane	1.33	1.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**09-02-2293-5-G**	**02/25/09 09:47**	**Aqueous**	**GC 52**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Methane	ND	1.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	**09-02-2293-6-G**	**02/25/09 08:02**	**Aqueous**	**GC 52**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Methane	ND	1.00	1		ug/L

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Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: RSK-175M

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**09-02-2293-7-G**	**02/25/09 08:38**	**Aqueous**	**GC 52**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Methane	1890	20.0	20		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	**09-02-2293-8-H**	**02/25/09 09:13**	**Aqueous**	**GC 52**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Methane	1960	20.0	20		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**09-02-2293-9-G**	**02/25/09 06:08**	**Aqueous**	**GC 52**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Methane	117	1.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-663-501**	**N/A**	**Aqueous**	**GC 52**	**N/A**	**02/27/09 00:00**	**090227L01**

Parameter	Result	RL	DF	Qual	Units
Methane	ND	1.00	1		ug/L

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Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: EPA 200.7

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	**09-02-2293-1-M**	**02/25/09 11:00**	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09 11:59**	**090227LA7**

Parameter	Result	RL	DF	Qual	Units
Manganese	5380	5.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	**09-02-2293-2-M**	**02/25/09 10:16**	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09 12:15**	**090227LA7**

Parameter	Result	RL	DF	Qual	Units
Manganese	18.5	5.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**09-02-2293-3-M**	**02/25/09 11:50**	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09 12:18**	**090227LA7**

Parameter	Result	RL	DF	Qual	Units
Manganese	ND	5.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**09-02-2293-4-M**	**02/25/09 07:10**	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09 12:20**	**090227LA7**

Parameter	Result	RL	DF	Qual	Units
Manganese	2930	5.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**09-02-2293-5-M**	**02/25/09 09:47**	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09 12:23**	**090227LA7**

Parameter	Result	RL	DF	Qual	Units
Manganese	17.6	5.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	**09-02-2293-6-M**	**02/25/09 08:02**	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09 12:26**	**090227LA7**

Parameter	Result	RL	DF	Qual	Units
Manganese	16.7	5.00	1		ug/L

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Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: EPA 200.7

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**09-02-2293-7-M**	**02/25/09 08:38**	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09 12:31**	**090227LA7**

Parameter	Result	RL	DF	Qual	Units
Manganese	4140	5.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	**09-02-2293-8-M**	**02/25/09 09:13**	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09 12:33**	**090227LA7**

Parameter	Result	RL	DF	Qual	Units
Manganese	3060	5.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**09-02-2293-9-M**	**02/25/09 06:08**	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09 12:35**	**090227LA7**

Parameter	Result	RL	DF	Qual	Units
Manganese	4530	5.00	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-012-3,728**	**N/A**	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09 11:49**	**090227LA7**

Parameter	Result	RL	DF	Qual	Units
Manganese	ND	5.00	1		ug/L

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Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: SM 2320B

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	**09-02-2293-1**	**02/25/09 11:00**	**Aqueous**	**PH 1**	**N/A**	**03/05/09 18:30**	**90305ALKB2**

Parameter	Result	RL	DF	Qual	Units
Alkalinity, Total (as CaCO3)	846000	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	**09-02-2293-2-K**	**02/25/09 10:16**	**Aqueous**	**PH 1**	**N/A**	**03/05/09 18:30**	**90305ALKB2**

Parameter	Result	RL	DF	Qual	Units
Alkalinity, Total (as CaCO3)	146000	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**09-02-2293-3-K**	**02/25/09 11:50**	**Aqueous**	**PH 1**	**N/A**	**03/05/09 18:30**	**90305ALKB2**

Parameter	Result	RL	DF	Qual	Units
Alkalinity, Total (as CaCO3)	244000	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**09-02-2293-4-K**	**02/25/09 07:10**	**Aqueous**	**PH 1**	**N/A**	**03/05/09 18:30**	**90305ALKB2**

Parameter	Result	RL	DF	Qual	Units
Alkalinity, Total (as CaCO3)	352000	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**09-02-2293-5-K**	**02/25/09 09:47**	**Aqueous**	**PH 1**	**N/A**	**03/05/09 18:30**	**90305ALKB2**

Parameter	Result	RL	DF	Qual	Units
Alkalinity, Total (as CaCO3)	196000	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	**09-02-2293-6-K**	**02/25/09 08:02**	**Aqueous**	**PH 1**	**N/A**	**03/05/09 18:30**	**90305ALKB2**

Parameter	Result	RL	DF	Qual	Units
Alkalinity, Total (as CaCO3)	280000	100	1		ug/L

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Preparation: N/A
Method: SM 2320B

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**09-02-2293-7-K**	**02/25/09 08:38**	**Aqueous**	**PH 1**	**N/A**	**03/05/09 18:30**	**90305ALKB2**

Parameter	Result	RL	DF	Qual	Units
Alkalinity, Total (as CaCO3)	702000	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	**09-02-2293-8-K**	**02/25/09 09:13**	**Aqueous**	**PH 1**	**N/A**	**03/05/09 18:30**	**90305ALKB2**

Parameter	Result	RL	DF	Qual	Units
Alkalinity, Total (as CaCO3)	554000	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**09-02-2293-9-K**	**02/25/09 06:08**	**Aqueous**	**PH 1**	**N/A**	**03/05/09 18:30**	**90305ALKB2**

Parameter	Result	RL	DF	Qual	Units
Alkalinity, Total (as CaCO3)	572000	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-223-2,110**	**N/A**	**Aqueous**	**PH 1**	**N/A**	**03/05/09 18:30**	**90305ALKB2**

Parameter	Result	RL	DF	Qual	Units
Alkalinity, Total (as CaCO3)	ND	1.0	1		ug/L

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Cameron Park, CA 95682-8861

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: EPA 300.0
Units: ug/L

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	**09-02-2293-1-K**	**02/25/09 11:00**	**Aqueous**	**IC 10**	**N/A**	**02/26/09 17:08**	**090226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Nitrate (as N)	ND	100	1		Sulfate	5100	1000	1	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	**09-02-2293-2-K**	**02/25/09 10:16**	**Aqueous**	**IC 10**	**N/A**	**02/26/09 17:25**	**090226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Nitrate (as N)	1600	100	1		Sulfate	29000	1000	1	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**09-02-2293-3-K**	**02/25/09 11:50**	**Aqueous**	**IC 10**	**N/A**	**02/26/09 17:43**	**090226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Nitrate (as N)	3800	100	1		Sulfate	42000	1000	1	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**09-02-2293-4-K**	**02/25/09 07:10**	**Aqueous**	**IC 10**	**N/A**	**02/26/09 18:00**	**090226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Nitrate (as N)	220	100	1		Sulfate	7700	1000	1	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**09-02-2293-5-K**	**02/25/09 09:47**	**Aqueous**	**IC 10**	**N/A**	**02/26/09 18:18**	**090226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Nitrate (as N)	2200	100	1		Sulfate	55000	1000	1	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	**09-02-2293-6-K**	**02/25/09 08:02**	**Aqueous**	**IC 10**	**N/A**	**02/26/09 18:35**	**090226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Nitrate (as N)	1200	100	1		Sulfate	16000	1000	1	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**09-02-2293-7-K**	**02/25/09 08:38**	**Aqueous**	**IC 10**	**N/A**	**02/26/09 18:52**	**090226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Nitrate (as N)	100	100	1		Sulfate	4700	1000	1	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	**09-02-2293-8-K**	**02/25/09 09:13**	**Aqueous**	**IC 10**	**N/A**	**02/26/09 19:10**	**090226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Nitrate (as N)	ND	100	1		Sulfate	1900	1000	1	

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Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: EPA 300.0
Units: ug/L

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**09-02-2293-9-K**	**02/25/09 06:08**	**Aqueous**	**IC 10**	**N/A**	**02/26/09 19:27**	**090226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Nitrate (as N)	290	100	1		Sulfate	13000	1000	1	

Method Blank	**099-12-906-29**	**N/A**	**Aqueous**	**IC 10**	**N/A**	**02/26/09 11:37**	**090226L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Nitrate (as N)	ND	100	1		Sulfate	ND	1000	1	

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Cameron Park, CA 95682-8861

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: SM 4500 S2 - D

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	**09-02-2293-1-L**	**02/25/09 11:00**	**Aqueous**	**N/A**	**02/26/09**	**02/26/09 11:40**	**90226DSB1**

Parameter	Result	RL	DF	Qual	Units
Sulfide, Dissolved	ND	50	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	**09-02-2293-2-L**	**02/25/09 10:16**	**Aqueous**	**N/A**	**02/26/09**	**02/26/09 11:40**	**90226DSB1**

Parameter	Result	RL	DF	Qual	Units
Sulfide, Dissolved	ND	50	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**09-02-2293-3-L**	**02/25/09 11:50**	**Aqueous**	**N/A**	**02/26/09**	**02/26/09 11:40**	**90226DSB1**

Parameter	Result	RL	DF	Qual	Units
Sulfide, Dissolved	ND	50	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**09-02-2293-4-L**	**02/25/09 07:10**	**Aqueous**	**N/A**	**02/26/09**	**02/26/09 11:40**	**90226DSB1**

Comment(s): -BV Sample received after holding time expired.

Parameter	Result	RL	DF	Qual	Units
Sulfide, Dissolved	ND	50	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**09-02-2293-5-L**	**02/25/09 09:47**	**Aqueous**	**N/A**	**02/26/09**	**02/26/09 11:40**	**90226DSB1**

Parameter	Result	RL	DF	Qual	Units
Sulfide, Dissolved	ND	50	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	**09-02-2293-6-L**	**02/25/09 08:02**	**Aqueous**	**N/A**	**02/26/09**	**02/26/09 11:40**	**90226DSB1**

Comment(s): -BV Sample received after holding time expired.

Parameter	Result	RL	DF	Qual	Units
Sulfide, Dissolved	ND	50	1		ug/L

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

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3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682-8861

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: SM 4500 S2 - D

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**09-02-2293-7-L**	**02/25/09 08:38**	**Aqueous**	**N/A**	**02/26/09**	**02/26/09 11:40**	**90226DSB1**

Parameter	Result	RL	DF	Qual	Units
Sulfide, Dissolved	ND	50	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	**09-02-2293-8-L**	**02/25/09 09:13**	**Aqueous**	**N/A**	**02/26/09**	**02/26/09 11:40**	**90226DSB1**

Parameter	Result	RL	DF	Qual	Units
Sulfide, Dissolved	ND	50	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**09-02-2293-9-L**	**02/25/09 06:08**	**Aqueous**	**N/A**	**02/26/09**	**02/26/09 11:40**	**90226DSB1**

Comment(s): -BV Sample received after holding time expired.

Parameter	Result	RL	DF	Qual	Units
Sulfide, Dissolved	ND	50	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-088-2,510**	**N/A**	**Aqueous**	**N/A**	**02/26/09**	**02/26/09 11:40**	**90226DSB1**

Parameter	Result	RL	DF	Qual	Units
Sulfide, Dissolved	ND	50	1		ug/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: SM3500-FeB

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	**09-02-2293-1-K**	**02/25/09 11:00**	**Aqueous**	**UV 2**	**02/26/09**	**02/26/09 08:54**	**90226FEL1**

Parameter	Result	RL	DF	Qual	Units
Iron (II)	8600	200	2		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	**09-02-2293-2-K**	**02/25/09 10:16**	**Aqueous**	**UV 2**	**02/26/09**	**02/26/09 08:54**	**90226FEL1**

Parameter	Result	RL	DF	Qual	Units
Iron (II)	ND	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**09-02-2293-3-K**	**02/25/09 11:50**	**Aqueous**	**UV 2**	**02/26/09**	**02/26/09 08:54**	**90226FEL1**

Parameter	Result	RL	DF	Qual	Units
Iron (II)	ND	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**09-02-2293-4-K**	**02/25/09 07:10**	**Aqueous**	**UV 2**	**02/26/09**	**02/26/09 08:54**	**90226FEL1**

Comment(s): -BV Sample received after holding time expired.

Parameter	Result	RL	DF	Qual	Units
Iron (II)	ND	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**09-02-2293-5-K**	**02/25/09 09:47**	**Aqueous**	**UV 2**	**02/26/09**	**02/26/09 08:54**	**90226FEL1**

Parameter	Result	RL	DF	Qual	Units
Iron (II)	ND	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	**09-02-2293-6-K**	**02/25/09 08:02**	**Aqueous**	**UV 2**	**02/26/09**	**02/26/09 08:54**	**90226FEL1**

Comment(s): -BV Sample received after holding time expired.

Parameter	Result	RL	DF	Qual	Units
Iron (II)	ND	100	1		ug/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: SM3500-FeB

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**09-02-2293-7-K**	**02/25/09 08:38**	**Aqueous**	**UV 2**	**02/26/09**	**02/26/09 08:54**	**90226FEL1**

Parameter	Result	RL	DF	Qual	Units
Iron (II)	3000	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	**09-02-2293-8-K**	**02/25/09 09:13**	**Aqueous**	**UV 2**	**02/26/09**	**02/26/09 08:54**	**90226FEL1**

Parameter	Result	RL	DF	Qual	Units
Iron (II)	1900	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**09-02-2293-9-K**	**02/25/09 06:08**	**Aqueous**	**UV 2**	**02/26/09**	**02/26/09 08:54**	**90226FEL1**

Comment(s): -BV Sample received after holding time expired.

Parameter	Result	RL	DF	Qual	Units
Iron (II)	3700	100	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-111-3,248**	**N/A**	**Aqueous**	**UV 2**	**02/26/09**	**02/26/09 08:54**	**90226FEL1**

Parameter	Result	RL	DF	Qual	Units
Iron (II)	ND	100	1		ug/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	**09-02-2293-1-E**	**02/25/09 11:00**	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09 02:59**	**090304B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	18000	1200	25		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	91	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	**09-02-2293-2-E**	**02/25/09 10:16**	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09 03:32**	**090304B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	88	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**09-02-2293-3-E**	**02/25/09 11:50**	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09 04:05**	**090304B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	87	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**09-02-2293-4-E**	**02/25/09 07:10**	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09 04:38**	**090304B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	140	100	2		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	93	38-134			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**09-02-2293-5-E**	**02/25/09 09:47**	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09 09:34**	**090304B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	92	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	**09-02-2293-6-E**	**02/25/09 08:02**	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09 12:16**	**090304B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	130	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	82	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**09-02-2293-7-E**	**02/25/09 08:38**	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09 05:11**	**090304B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	3400	1000	20		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	101	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	**09-02-2293-8-E**	**02/25/09 09:13**	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09 05:44**	**090304B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	14000	1000	20		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	95	38-134			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**09-02-2293-9-E**	**02/25/09 06:08**	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09 06:17**	**090304B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	2900	1000	20		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	92	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-695-455**	**N/A**	**Aqueous**	**GC 4**	**03/04/09**	**03/04/09 16:01**	**090304B01**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	70	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-695-457**	**N/A**	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09 09:01**	**090304B02**

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	81	38-134			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	**09-02-2293-1-B**	**02/25/09 11:00**	**Aqueous**	**GC/MS BB**	**03/06/09**	**03/06/09 22:03**	**090306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	5200	250	500		Methyl-t-Butyl Ether (MTBE)	ND	250	500	
1,2-Dibromoethane	ND	250	500		Tert-Butyl Alcohol (TBA)	ND	5000	500	
1,2-Dichloroethane	ND	250	500		Diisopropyl Ether (DIPE)	ND	250	500	
Ethylbenzene	380	250	500		Ethyl-t-Butyl Ether (ETBE)	ND	250	500	
Toluene	ND	250	500		Tert-Amyl-Methyl Ether (TAME)	ND	250	500	
Xylenes (total)	1400	250	500		Ethanol	ND	150000	500	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	98	73-145			Dibromofluoromethane	104	81-135		
Toluene-d8	99	83-119			1,4-Bromofluorobenzene	100	74-110		

MW-3	09-02-2293-2-A	02/25/09 10:16	Aqueous	GC/MS BB	03/06/09	03/06/09 22:35	090306L01

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	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	100	73-145			Dibromofluoromethane	106	81-135		
Toluene-d8	99	83-119			1,4-Bromofluorobenzene	100	74-110		

MW-4	09-02-2293-3-A	02/25/09 11:50	Aqueous	GC/MS BB	03/06/09	03/06/09 23:07	090306L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	26	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	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	102	73-145			Dibromofluoromethane	103	81-135		
Toluene-d8	99	83-119			1,4-Bromofluorobenzene	96	74-110		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**09-02-2293-4-B**	**02/25/09 07:10**	**Aqueous**	**GC/MS BB**	**03/07/09**	**03/07/09 18:32**	**090307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	6.4	0.50	1		Methyl-t-Butyl Ether (MTBE)	68	2.0	4	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	110	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Ethylbenzene	2.4	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	0.62	0.50	1	
Xylenes (total)	3.1	0.50	1		Ethanol	ND	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	96	73-145			Dibromofluoromethane	97	81-135		
Toluene-d8	102	83-119			1,4-Bromofluorobenzene	97	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**09-02-2293-5-A**	**02/25/09 09:47**	**Aqueous**	**GC/MS BB**	**03/06/09**	**03/07/09 00:12**	**090306L01**

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	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	99	73-145			Dibromofluoromethane	102	81-135		
Toluene-d8	100	83-119			1,4-Bromofluorobenzene	99	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	**09-02-2293-6-A**	**02/25/09 08:02**	**Aqueous**	**GC/MS BB**	**03/06/09**	**03/07/09 00:44**	**090306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	20	40		Methyl-t-Butyl Ether (MTBE)	540	20	40	
1,2-Dibromoethane	ND	20	40		Tert-Butyl Alcohol (TBA)	ND	400	40	
1,2-Dichloroethane	ND	20	40		Diisopropyl Ether (DIPE)	ND	20	40	
Ethylbenzene	ND	20	40		Ethyl-t-Butyl Ether (ETBE)	ND	20	40	
Toluene	ND	20	40		Tert-Amyl-Methyl Ether (TAME)	ND	20	40	
Xylenes (total)	ND	20	40		Ethanol	ND	12000	40	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	108	73-145			Dibromofluoromethane	107	81-135		
Toluene-d8	98	83-119			1,4-Bromofluorobenzene	94	74-110		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**09-02-2293-7-A**	**02/25/09 08:38**	**Aqueous**	**GC/MS BB**	**03/06/09**	**03/07/09 01:16**	**090306L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	160	10	20		Methyl-t-Butyl Ether (MTBE)	35	10	20	
1,2-Dibromoethane	ND	10	20		Tert-Butyl Alcohol (TBA)	ND	200	20	
1,2-Dichloroethane	ND	10	20		Diisopropyl Ether (DIPE)	ND	10	20	
Ethylbenzene	88	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	10	20	
Toluene	11	10	20		Tert-Amyl-Methyl Ether (TAME)	ND	10	20	
Xylenes (total)	65	10	20		Ethanol	ND	6000	20	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	104	73-145			Dibromofluoromethane	103	81-135		
Toluene-d8	100	83-119			1,4-Bromofluorobenzene	94	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	**09-02-2293-8-B**	**02/25/09 09:13**	**Aqueous**	**GC/MS BB**	**03/07/09**	**03/07/09 19:04**	**090307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	60	10	20		Methyl-t-Butyl Ether (MTBE)	ND	10	20	
1,2-Dibromoethane	ND	10	20		Tert-Butyl Alcohol (TBA)	ND	200	20	
1,2-Dichloroethane	ND	10	20		Diisopropyl Ether (DIPE)	ND	10	20	
Ethylbenzene	550	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	10	20	
Toluene	ND	10	20		Tert-Amyl-Methyl Ether (TAME)	ND	10	20	
Xylenes (total)	140	10	20		Ethanol	ND	6000	20	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	100	73-145			Dibromofluoromethane	107	81-135		
Toluene-d8	98	83-119			1,4-Bromofluorobenzene	92	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**09-02-2293-9-B**	**02/25/09 06:08**	**Aqueous**	**GC/MS BB**	**03/07/09**	**03/07/09 19:36**	**090307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	53	10	20		Methyl-t-Butyl Ether (MTBE)	170	10	20	
1,2-Dibromoethane	ND	10	20		Tert-Butyl Alcohol (TBA)	280	200	20	
1,2-Dichloroethane	ND	10	20		Diisopropyl Ether (DIPE)	ND	10	20	
Ethylbenzene	69	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	10	20	
Toluene	14	10	20		Tert-Amyl-Methyl Ether (TAME)	ND	10	20	
Xylenes (total)	160	10	20		Ethanol	ND	6000	20	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	98	73-145			Dibromofluoromethane	100	81-135		
Toluene-d8	100	83-119			1,4-Bromofluorobenzene	100	74-110		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ARCO 11132

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-703-753**	**N/A**	**Aqueous**	**GC/MS BB**	**03/06/09**	**03/06/09 17:46**	**090306L01**

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	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	98	73-145			Dibromofluoromethane	103	81-135		
Toluene-d8	99	83-119			1,4-Bromofluorobenzene	97	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-703-756**	**N/A**	**Aqueous**	**GC/MS BB**	**03/07/09**	**03/07/09 18:00**	**090307L01**

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	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	97	73-145			Dibromofluoromethane	101	81-135		
Toluene-d8	101	83-119			1,4-Bromofluorobenzene	98	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-703-760**	**N/A**	**Aqueous**	**GC/MS BB**	**03/09/09**	**03/09/09 12:30**	**090309L01**

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	300	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	99	73-145			Dibromofluoromethane	104	81-135		
Toluene-d8	97	83-119			1,4-Bromofluorobenzene	93	74-110		

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: RSK-175M

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
MW-8	**Aqueous**	**GC 14**	**N/A**	**02/27/09**	**090227D01**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Carbon Dioxide	198000	185000	7	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Stratus Environmental, inc.	Date Received:	02/26/09
3330 Cameron Park Drive, Suite 550	Work Order No:	09-02-2293
Cameron Park, CA 95682-8861	Preparation:	N/A
	Method:	RSK-175M

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
MW-10	**Aqueous**	**GC 52**	**N/A**	**02/27/09**	**090227D01**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Methane	117	105	11	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.	Date Received:	02/26/09
3330 Cameron Park Drive, Suite 550	Work Order No:	09-02-2293
Cameron Park, CA 95682-8861	Preparation:	N/A
	Method:	EPA 200.7

Project ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-2	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09**	**090227SA7**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Manganese	4X	4X	80-120	4X	0-20	BB

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

Stratus Environmental, inc.		Date Received	02/26/09
3330 Cameron Park Drive, Suite 550		Work Order No:	09-02-2293
Cameron Park, CA 95682-8861		Preparation:	N/A
		Method:	EPA 200.7

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
MW-2	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09**	**090227SA7**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Manganese	4X	4X	75-125	4X	0-20	BB

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Stratus Environmental, inc.		Date Received:	02/26/09
3330 Cameron Park Drive, Suite 550		Work Order No:	09-02-2293
Cameron Park, CA 95682-8861		Preparation:	N/A
		Method:	SM 2320B

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
MW-2	**Aqueous**	**PH 1**	**N/A**	**03/05/09**	**90305ALKD2**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	846000	846000	0	0-25	
Bicarbonate (as CaCO3)	846000	846000	0	0-25	
Carbonate (as CaCO3)	ND	ND	NA	0-25	
Hydroxide (as CaCO3)	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.		Date Received:	02/26/09
3330 Cameron Park Drive, Suite 550		Work Order No:	09-02-2293
Cameron Park, CA 95682-8861		Preparation:	N/A
		Method:	EPA 300.0

Project ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2287-5	**Aqueous**	**IC 10**	**N/A**	**02/26/09**	**090226S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Nitrate (as N)	88	89	58-142	0	0-6	
Sulfate	85	85	49-133	0	0-3	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: N/A
Method: SM 4500 S2 - D

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
MW-10	**Aqueous**	**N/A**	**02/26/09**	**02/26/09**	**90226DSD1**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Sulfide, Dissolved	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.	Date Received:	02/26/09
3330 Cameron Park Drive, Suite 550	Work Order No:	09-02-2293
Cameron Park, CA 95682-8861	Preparation:	N/A
	Method:	SM3500-FeB

Project ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2292-5	**Aqueous**	**UV 2**	**02/26/09**	**02/26/09**	**90226FES1**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron (II)	96	96	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.	Date Received:	02/26/09
3330 Cameron Park Drive, Suite 550	Work Order No:	09-02-2293
Cameron Park, CA 95682-8861	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

Project ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-03-0234-5	**Aqueous**	**GC 4**	**03/04/09**	**03/04/09**	**090304S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	110	104	38-134	5	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.	Date Received:	02/26/09
3330 Cameron Park Drive, Suite 550	Work Order No:	09-02-2293
Cameron Park, CA 95682-8861	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-6	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09**	**090304S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	108	109	38-134	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8260B

Project ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2182-13	**Aqueous**	**GC/MS BB**	**03/06/09**	**03/06/09**	**090306S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	102	86-122	3	0-8	
Carbon Tetrachloride	107	106	78-138	1	0-9	
Chlorobenzene	105	105	90-120	0	0-9	
1,2-Dibromoethane	100	102	70-130	3	0-30	
1,2-Dichlorobenzene	106	105	89-119	0	0-10	
1,1-Dichloroethene	109	107	52-142	2	0-23	
Ethylbenzene	95	91	70-130	3	0-30	
Toluene	108	104	85-127	4	0-12	
Trichloroethene	102	101	78-126	1	0-10	
Vinyl Chloride	95	95	56-140	0	0-21	
Methyl-t-Butyl Ether (MTBE)	88	89	64-136	0	0-28	
Tert-Butyl Alcohol (TBA)	102	101	27-183	1	0-60	
Diisopropyl Ether (DIPE)	95	95	78-126	0	0-16	
Ethyl-t-Butyl Ether (ETBE)	93	94	67-133	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	92	92	63-141	0	0-21	
Ethanol	101	107	11-167	5	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/26/09
Work Order No: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8260B

Project ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2410-1	**Aqueous**	**GC/MS BB**	**03/07/09**	**03/07/09**	**090307S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	103	86-122	1	0-8	
Carbon Tetrachloride	101	100	78-138	1	0-9	
Chlorobenzene	104	101	90-120	2	0-9	
1,2-Dibromoethane	101	99	70-130	1	0-30	
1,2-Dichlorobenzene	99	98	89-119	1	0-10	
1,1-Dichloroethene	109	108	52-142	2	0-23	
Ethylbenzene	98	96	70-130	1	0-30	
Toluene	98	97	85-127	1	0-12	
Trichloroethene	99	99	78-126	0	0-10	
Vinyl Chloride	91	94	56-140	4	0-21	
Methyl-t-Butyl Ether (MTBE)	89	88	64-136	2	0-28	
Tert-Butyl Alcohol (TBA)	100	103	27-183	3	0-60	
Diisopropyl Ether (DIPE)	94	94	78-126	1	0-16	
Ethyl-t-Butyl Ether (ETBE)	88	87	67-133	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	84	84	63-141	0	0-21	
Ethanol	113	100	11-167	12	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc.	Date Received:	02/26/09
3330 Cameron Park Drive, Suite 550	Work Order No:	09-02-2293
Cameron Park, CA 95682-8861	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-2525-8	**Aqueous**	**GC/MS BB**	**03/09/09**	**03/09/09**	**090309S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	100	86-122	2	0-8	
Carbon Tetrachloride	109	111	78-138	2	0-9	
Chlorobenzene	105	106	90-120	1	0-9	
1,2-Dibromoethane	108	108	70-130	1	0-30	
1,2-Dichlorobenzene	108	108	89-119	1	0-10	
1,1-Dichloroethene	104	106	52-142	2	0-23	
Ethylbenzene	97	98	70-130	0	0-30	
Toluene	105	105	85-127	0	0-12	
Trichloroethene	104	104	78-126	0	0-10	
Vinyl Chloride	84	87	56-140	4	0-21	
Methyl-t-Butyl Ether (MTBE)	99	101	64-136	2	0-28	
Tert-Butyl Alcohol (TBA)	100	104	27-183	2	0-60	
Diisopropyl Ether (DIPE)	97	99	78-126	2	0-16	
Ethyl-t-Butyl Ether (ETBE)	97	99	67-133	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	95	96	63-141	0	0-21	
Ethanol	100	94	11-167	6	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.	Date Received:	N/A
3330 Cameron Park Drive, Suite 550	Work Order No:	09-02-2293
Cameron Park, CA 95682-8861	Preparation:	N/A
	Method:	RSK-175M

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-659-51	**Aqueous**	**GC 14**	**N/A**	**02/27/09**	**090227L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon Dioxide	93	93	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

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: 09-02-2293
Preparation: N/A
Method: RSK-175M

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-663-501	**Aqueous**	**GC 52**	**N/A**	**02/27/09**	**090227L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Methane	86	88	79-109	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.		Date Received:	N/A
3330 Cameron Park Drive, Suite 550		Work Order No:	09-02-2293
Cameron Park, CA 95682-8861		Preparation:	N/A
		Method:	EPA 200.7

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-012-3,728	**Aqueous**	**ICP 5300**	**02/27/09**	**03/02/09**	**090227LA7**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Manganese	102	103	85-115	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.		Date Received:	N/A
3330 Cameron Park Drive, Suite 550		Work Order No:	09-02-2293
Cameron Park, CA 95682-8861		Preparation:	N/A
		Method:	EPA 300.0

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-29	Aqueous	IC 10	N/A	02/26/09	090226L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Nitrate (as N)	100	99	87-111	1	0-12	
Sulfate	95	94	89-107	0	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Stratus Environmental, inc.	Date Received: N/A
3330 Cameron Park Drive, Suite 550	Work Order No: 09-02-2293
Cameron Park, CA 95682-8861	Preparation: N/A
	Method: SM3500-FeB

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-05-111-3,248	**Aqueous**	**UV 2**	**02/26/09**	**NONE**	**90226FEL1**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Iron (II)	1.00	0.970	97	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.	Date Received: N/A
3330 Cameron Park Drive, Suite 550	Work Order No: 09-02-2293
Cameron Park, CA 95682-8861	Preparation: EPA 5030B
	Method: EPA 8015B (M)

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-455	**Aqueous**	**GC 4**	**03/04/09**	**03/04/09**	**090304B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	102	107	78-120	5	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

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: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-695-457	**Aqueous**	**GC 4**	**03/04/09**	**03/05/09**	**090304B02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	109	112	78-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc.		Date Received:	N/A
3330 Cameron Park Drive, Suite 550		Work Order No:	09-02-2293
Cameron Park, CA 95682-8861		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-753	**Aqueous**	**GC/MS BB**	**03/06/09**	**03/06/09**	**090306L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	106	104	87-117	82-122	1	0-7	
Carbon Tetrachloride	112	109	78-132	69-141	3	0-8	
Chlorobenzene	107	103	88-118	83-123	4	0-8	
1,2-Dibromoethane	103	103	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	107	107	88-118	83-123	0	0-8	
1,1-Dichloroethene	108	105	71-131	61-141	2	0-14	
Ethylbenzene	102	96	80-120	73-127	6	0-20	
Toluene	102	100	85-127	78-134	2	0-7	
Trichloroethene	107	106	85-121	79-127	0	0-11	
Vinyl Chloride	90	91	64-136	52-148	0	0-10	
Methyl-t-Butyl Ether (MTBE)	96	97	67-133	56-144	1	0-16	
Tert-Butyl Alcohol (TBA)	97	97	34-154	14-174	0	0-19	
Diisopropyl Ether (DIPE)	98	98	80-122	73-129	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	98	98	73-127	64-136	0	0-11	
Tert-Amyl-Methyl Ether (TAME)	93	93	69-135	58-146	0	0-12	
Ethanol	91	89	34-124	19-139	2	0-44	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

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: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8260B

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-756	**Aqueous**	**GC/MS BB**	**03/07/09**	**03/07/09**	**090307L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	102	87-117	82-122	1	0-7	
Carbon Tetrachloride	101	101	78-132	69-141	0	0-8	
Chlorobenzene	99	101	88-118	83-123	2	0-8	
1,2-Dibromoethane	95	97	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	101	102	88-118	83-123	0	0-8	
1,1-Dichloroethene	106	107	71-131	61-141	1	0-14	
Ethylbenzene	94	94	80-120	73-127	0	0-20	
Toluene	98	99	85-127	78-134	1	0-7	
Trichloroethene	99	98	85-121	79-127	1	0-11	
Vinyl Chloride	95	97	64-136	52-148	3	0-10	
Methyl-t-Butyl Ether (MTBE)	88	89	67-133	56-144	1	0-16	
Tert-Butyl Alcohol (TBA)	94	94	34-154	14-174	0	0-19	
Diisopropyl Ether (DIPE)	88	89	80-122	73-129	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	88	89	73-127	64-136	2	0-11	
Tert-Amyl-Methyl Ether (TAME)	86	88	69-135	58-146	2	0-12	
Ethanol	104	108	34-124	19-139	4	0-44	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

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: 09-02-2293
Preparation: EPA 5030B
Method: EPA 8260B

Project: ARCO 11132

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-703-760	**Aqueous**	**GC/MS BB**	**03/09/09**	**03/09/09**	**090309L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	106	110	87-117	82-122	3	0-7	
Carbon Tetrachloride	106	110	78-132	69-141	4	0-8	
Chlorobenzene	106	108	88-118	83-123	2	0-8	
1,2-Dibromoethane	99	109	80-120	73-127	10	0-20	
1,2-Dichlorobenzene	104	110	88-118	83-123	5	0-8	
1,1-Dichloroethene	108	115	71-131	61-141	7	0-14	
Ethylbenzene	99	101	80-120	73-127	2	0-20	
Toluene	104	107	85-127	78-134	4	0-7	
Trichloroethene	103	109	85-121	79-127	5	0-11	
Vinyl Chloride	101	106	64-136	52-148	6	0-10	
Methyl-t-Butyl Ether (MTBE)	90	101	67-133	56-144	12	0-16	
Tert-Butyl Alcohol (TBA)	98	99	34-154	14-174	1	0-19	
Diisopropyl Ether (DIPE)	92	99	80-122	73-129	7	0-8	
Ethyl-t-Butyl Ether (ETBE)	90	99	73-127	64-136	9	0-11	
Tert-Amyl-Methyl Ether (TAME)	90	98	69-135	58-146	9	0-12	
Ethanol	114	104	34-124	19-139	9	0-44	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

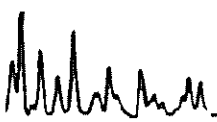
Glossary of Terms and Qualifiers

Work Order Number: 09-02-2293

Qualifier	Definition
AX	Sample too dilute to quantify surrogate.
BA	There was no MS/MSD analyzed with this batch due to insufficient sample volume (NR = not reported). See Blank Spike/Blank Spike Duplicate.
BA,AY	Relative percent difference out of control, matrix interference suspected.
BB	Sample > 4x spike concentration.
BF	Reporting limits raised due to high hydrocarbon background.
BH	Reporting limits raised due to high level of non-target analytes.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
BY	Sample received at improper temperature.
CL	Initial analysis within holding time but required dilution.
CQ	Analyte concentration greater than 10 times the blank concentration.
CU	Surrogate concentration diluted to not detectable during analysis.
DF	Reporting limits elevated due to matrix interferences.
ET	Sample was extracted past end of recommended max. holding time.
EY	Result exceeds normal dynamic range; reported as a min est.
GS	Internal standard recovery is outside method recovery limit.
IB	CCV recovery abovelimit; analyte not detected.
IH	Calibrtn. verif. recov. below method CL for this analyte.
IJ	Calibrtn. verif. recov. above method CL for this analyte.
J,DX	J=EPA Flag -Estimated value; DX= Value < lowest standard (MQL), but > than MDL.
LA	Confirmatory analysis was past holding time.
LG	Surrogate recovery below the acceptance limit.
LH	Surrogate recovery above the acceptance limit.
LM,AY	MS and/or MSD above acceptance limits. See Blank Spike (LCS). Matrix interfence suspected.
LN,AY	MS and/or MSD below acceptance limits. See Blank Spike (LCS). Matrix interfence suspected.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.

Work Order Number: 09-02-2293

Qualifier	Definition
MB	Analyte present in the method blank.
MG	Analyte is a suspected lab contaminate.
PC	Sample taken from VOA vial with air bubble > 6mm diameter.
PI	Primary and confirm results varied by > than 40% RPD.
RB	RPD exceeded method control limit; % recoveries within limits.



Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program LaMP Chain of Custody Record

(2293)

BP/ARC Project Name: ARCO 11132
BP/ARC Facility No: 11132

Req Due Date (mm/dd/yy): 5d TAT Rush TAT: Yes ___ No X
Lab Work Order Number:

Lab Name:	Cal Science	BP/ARC Facility Address:	3201 35th Avenue	Consultant/Contractor:	Stratus Environmental
Lab Address:	7440 Lincoln Way	City, State, ZIP Code:	Oakland, CA	Consultant/Contractor Project No:	E11132-QM/O&M
Lab PM:	Richard Villafania	Lead Regulatory Agency:	Alameda County	Address:	3330 Cameron Park Dr., Cameron Park, CA 95682
Lab Phone:	714-895-5494 / 714-895-7501 (fax)	California Global ID No.:	T0600100213	Consultant/Contractor PM:	Jay Johnson
Lab Shipping Accnt:		Enfos Proposal No:		Phone:	530-676-6000 / 530-676-6005 (fax)
Lab Bottle Order No:		Accounting Mode:	Provision X OOC-BU ___ OOC-RM ___	Email EDD To:	chuff@stratusinc.net
Other Info:		Stage: 1st Qtr.	Activity: QM	Invoice To:	BP/ARC ___ Contractor ___
BP/ARC EBM:	Paul Supple				
EBM Phone:	925-275-3506				
EBM Email:	paul.supple@bp.com				

Report Type & QC Level: Standard ___ Full Data Package ___

Lab No.	Sample Description	Date (2009)	Time	Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	Methanol	GRO by 8015M	BTEX *	Oxy's *	EDB *	1,2 DCA *	Ethanol *	** See Column	Comments
																				* by 8260
1	MW-2	02-25	1100		X		13				X		X	X	X	X	X	X	X	** Nitrate & Sulfate EPA300
2	MW-3	↓	1016		↓		↓				↓		↓	↓	↓	↓	↓	↓	↓	Ferrous Iron & Manganese EPA 307.7
3	MW-4		1150																	Disolved Sulfide EPA 376.2
4	MW-5		0710																	Methane & Carbon Dioxide RSK 175
5	MW-6		0947																	Alkalinity EPA 310.1
6	MW-7		0802																	
7	MW-8		0838																	
8	MW-9		0913																	
9	MW-10		0608																	
10	TB11132 02252009		0530		↓		2				↓									ON HOLD

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	G. Wilkins / V. Zalutka	[signature]	022509	1500	Wobath CEL	2/26/09	0815
Sampler's Company:	Stratus						
Shipment Method:	GSO Ship Date: 02-25-09						
Shipment Tracking No:	9255432097 / 9255102095						

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

THIS LINE - LAB USE ONLY: 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

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2293

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: STRATUS DATE: 2/26/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.9 °C - 0.2 °C (CF) = 1.7 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** WB

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** WB

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** WB

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☐	☑	☐
Proper preservation noted on COC or sample container	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☑VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☑500PB ☐500PBna ☑250PB ☑250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Checked/Labeled by:** WB

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle **Reviewed by:** ZP

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH **Scanned by:** WB

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2293

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: STRATUS DATE: 2/26/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.6 °C - 0.2 °C (CF) = 1.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** WB

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** WB

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** WB

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑ WB 2/26/09	☑	☐
Proper preservation noted on COC or sample container	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☑VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☑500PB ☐500PBna ☑250PB ☑250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Checked/Labeled by:** WB

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle **Reviewed by:** ZP

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH **Scanned by:** WB

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-02-2293

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

- ☐ **Not relinquished by client – no signature**
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☐ **Incomplete information regarding samples, tests, etc.**

Comments:

SAMPLES - CONTAINERS & LABELS:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☑ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

Comments:

(4,6+9) FERROUS IRON + DISSOLVED SULFIDE ANALYSES RECEIVED EXPIRED.

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of RSK or CO_2 or DO or Organic Lead Received

Comments: _____

Initial / Date VVB 2/26/09

ATTACHMENT

FIELD PROCEDURES FOR GROUNDWATER SAMPLING

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

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

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

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

Submittal Type:	**GEO_WELL**
Submittal Title:	**1Q09 GEO_WELL 11132**
Facility Global ID:	**T0600100213**
Facility Name:	**BP #11132**
File Name:	**GEO_WELL.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**4/21/2009 12:44:16 PM**
Confirmation Number:	**1985992908**

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type:	**EDF - Monitoring Report - Quarterly**
Submittal Title:	**1Q09 GW Monitoring**
Facility Global ID:	**T0600100213**
Facility Name:	**BP #11132**
File Name:	**09022293.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**4/21/2009 12:45:33 PM**
Confirmation Number:	**9311739265**

VIEW QC REPORT

VIEW DETECTIONS REPORT