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Atlantic Richfield Company
(a BP affiliated company)



P.O. Box 1257
San Ramon, California 94583
Phone: (925) 275-3801
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27 October 2006

Re: Third Quarter 2006 Ground-Water Monitoring Report
Atlantic Richfield Company Station #374
6407 Telegraph Avenue
Oakland, California
ACEH Case # RO0000078

"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 Manager

Third Quarter 2006 Ground-Water Monitoring Report
Atlantic Richfield Company Station #374
6407 Telegraph Avenue
Oakland, California

Prepared for

Mr. Paul Supple
Environmental Business Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by



1324 Mangrove Avenue, Suite 212
Chico, California 95926
(530) 566-1400
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27 October 2006

Project No. 06-08-602

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



27 October 2006

Project No. 06-08-602

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

Attn.: Mr. Paul Supple

Re: Third Quarter 2006 Ground-Water Monitoring Report, Atlantic Richfield Station #374,
6407 Telegraph Avenue, Oakland, Alameda County, California. ACEH Case # RO78

Dear Mr. Supple:

Attached is the *Third Quarter 2006 Ground-Water Monitoring Report* for Atlantic Richfield Company (a BP affiliated company) Station #374 (herein referred to as Station #374) located at 6407 Telegraph Avenue, Oakland, California (Property). This report presents results of ground-water monitoring conducted during the Third Quarter of 2006.

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

Sincerely,

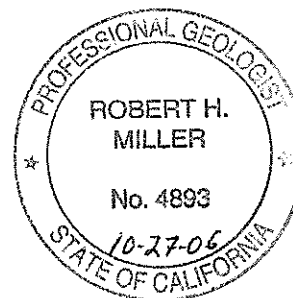
BROADBENT & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'Thomas A. Venus'.

Thomas A. Venus, P.E.
Senior Engineer

A handwritten signature in black ink, appearing to read 'Robert H. Miller'.

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



Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)

STATION #374 QUARTERLY GROUND-WATER MONITORING REPORT

Facility: #374	Address:	6407 Telegraph Avenue, Oakland, California
Environmental Business Manager:		Mr. Paul Supple
Consulting Co./Contact Persons:		Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus (530) 566-1400
Consultant Project No.:		06-08-602
Primary Agency/Regulatory ID No.:		Alameda County Environmental Health (ACEH) ACEH Case #RO0000078
Facility Permits/Permitting Agency:		NA

WORK PERFORMED THIS QUARTER (Third Quarter 2006):

1. Prepared and submitted Second Quarter 2006 Ground-Water Monitoring Report. Work performed by BAI.
2. Conducted ground-water monitoring/sampling for Third Quarter 2006. Work performed on 24 August 2006 by Blaine Tech Services for URS.

WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter 2006):

1. Prepared and submitted this Third Quarter 2006 Ground-Water Monitoring Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for Fourth Quarter 2006.
3. Prepare and submit Fourth Quarter 2006 Ground-Water Monitoring Report.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	Ground-water monitoring/sampling
Frequency of ground-water monitoring:	Quarterly: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6
Frequency of ground-water sampling:	Quarterly: MW-1 Semi-Annually (1Q and 3Q): MW-2 and MW-4 Annually (3Q): MW-3, MW-5, and MW-6
Is free product (FP) present on-site:	No
Current remediation techniques:	NA
Depth to ground water (below TOC):	5.18 ft (MW-6) to 8.26 ft (MW-4)
General ground-water flow direction:	Southwest
Approximate hydraulic gradient:	0.03 ft/ft

DISCUSSION:

Third quarter 2006 ground-water monitoring and sampling was conducted at Station #374 on 24 August 2006 by Blaine Tech Services personnel for URS. Water levels were gauged in the six wells at the Site. No irregularities were noted in the field during this quarter's water level gauging. Depth to water measurements ranged from 5.18 ft at MW-6 to 8.26 ft at MW-4. Resulting ground-water surface elevations ranged from 156.82 ft above mean sea level in well MW-1 to 152.21 ft at well MW-3. Water level elevations were between historic minimum and maximum ranges for each well, as summarized in Table 1. However, BAI noted several discrepancies with historic water level elevations reported within the Table 1 (see discussion below). Water level elevations yielded a potentiometric ground-water flow direction and gradient to the southwest at approximately 0.03 ft/ft, consistent with historical data reported in Table 3 (see discussion below). 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.

During this quarter's review of the historic water level elevations, BAI noted several discrepancies. The six wells at Station #374 were resurveyed on 27 January 2004, as reported in the *First Quarter 2004 Groundwater Monitoring Report* (URS, 15 March 2004). However the historic Table 1 data BAI inherited from URS did not include a reference to this surveying event. The resurveyed Top of Casing (TOC) measuring points referenced in Table 1 agree with the 27 January 2004 survey data for wells MW-1, MW-2, MW-3, and MW-6. However, the TOC measuring point elevation in Table 1 for MW-4 should actually be 162.47 ft (not 163.25 ft as reported quarterly since First Quarter 2004). Furthermore, according to the survey notes provided in the URS report of 15 March 2004, the surveyor was unable to access the casing for well MW-5 (although a top of lid/ground surface elevation of 157.39 ft was uploaded to GeoTracker). Therefore the water level elevations reported in Table 1 since the re-survey in early 2004 have been incorrect. BAI has noted this error with footnotes in Table 1. Measurements from this quarter forward should use the corrected TOC elevation of 162.47 ft for well MW-4. However, until its TOC elevation is resurveyed, the TOC Elevation and Water Level Elevations for well MW-5 will be left unreported in Table 1 from this quarter forward. It should be noted that potentiometric ground-water flow directions and gradients from First Quarter 2004 through Second Quarter 2006 may be suspect.

Consistent with the current ground-water sampling schedule, water samples were collected from the six wells at the Site. No irregularities were reported during sampling. Samples were submitted under chain of custody protocol to Test America Analytical Testing Corporation (Morgan Hill, California), for analysis of Gasoline Range Organics (GRO, C4-12) by the LUFT GCMS Method; for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and tert-Amyl methyl ether, tert-Butyl alcohol, Di-isopropyl ether, 1,2-Dibromomethane, 1,2-Dichloroethane, Ethanol, Ethyl tert-butyl ether, and Methyl tert-butyl ether (MTBE) by EPA Method 8260B. No 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 three of the six wells sampled at concentrations up to 3,600 micrograms per liter ($\mu\text{g/L}$) in well MW-4. Benzene was detected above the laboratory reporting limit in one of the six wells sampled at a concentration of 1,400 $\mu\text{g/L}$ in well MW-4. Toluene was detected above the laboratory reporting limit in one of the six wells sampled at a concentration of 21 $\mu\text{g/L}$ in well MW-4. Ethylbenzene was detected above the laboratory reporting limit in one of the six wells sampled at a concentrations of 110 $\mu\text{g/L}$ in well MW-4. Total Xylenes were detected above the laboratory reporting limit in one of the six wells sampled at a concentration of 70 $\mu\text{g/L}$ in well MW-4. MTBE was detected above the laboratory reporting limit in five of the six wells sampled at concentrations up to 180 $\mu\text{g/L}$ in well MW-1. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the six wells sampled this quarter. Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well. Historic laboratory analytical results are summarized in Table 1 and Table 2. A copy of the Laboratory Analytical Report, including chain of custody documentation is provided in Appendix A.

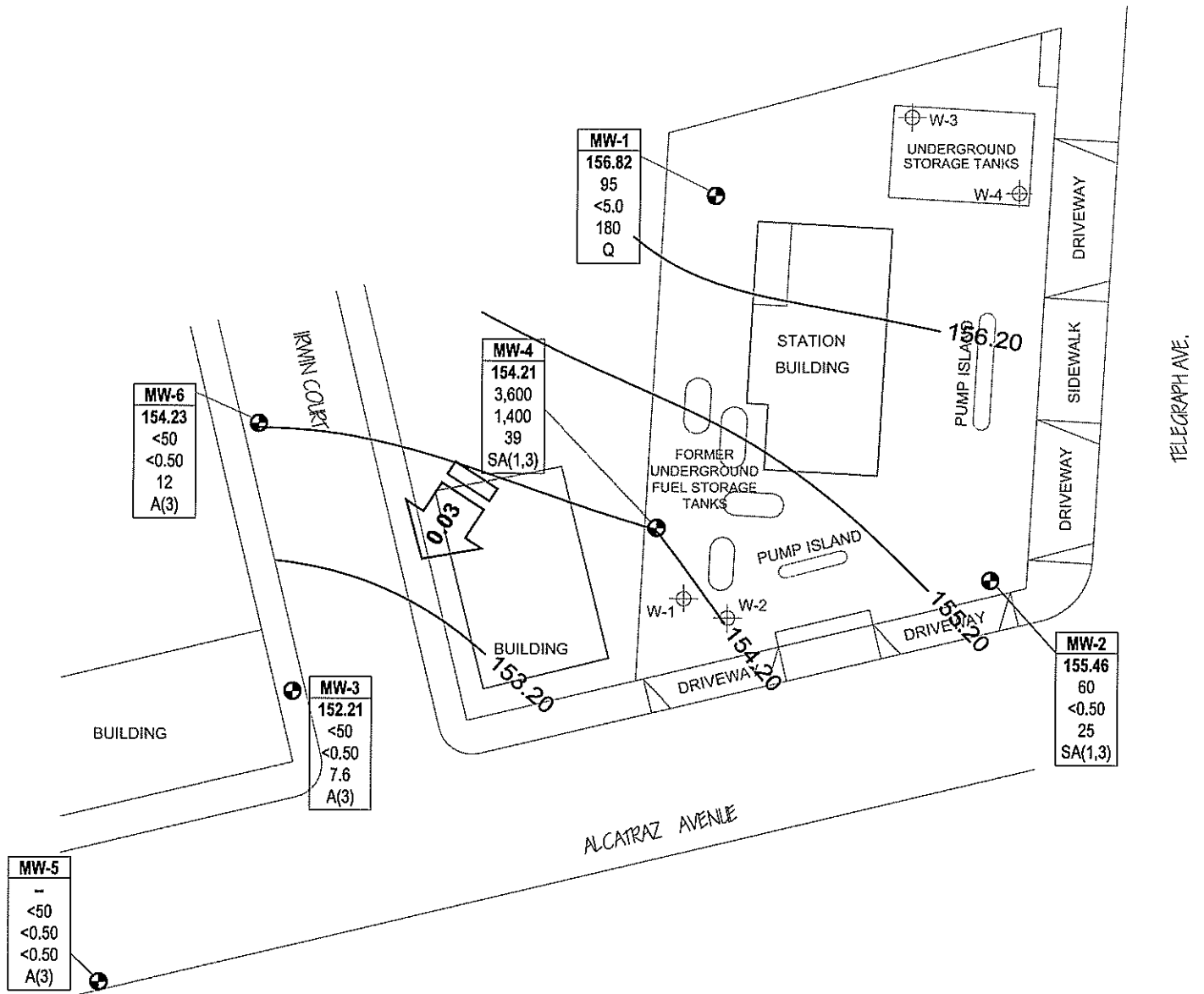
CLOSURE:

The findings presented in this report are based upon: observations of URS and Blaine Tech Services field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Test America (Morgan Hill, 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.

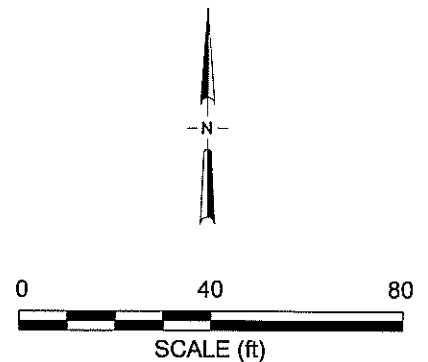
ATTACHMENTS:

- Drawing 1. Ground-Water Elevation Contours and Analytical Summary Map, 24 August 2006, Station #374, 6407 Telegraph Avenue, Oakland, California
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #374, 6407 Telegraph Ave., Oakland, CA
- Table 2. Summary of Fuel Additives Analytical Data, Station #374, 6407 Telegraph Ave., Oakland, CA
- Table 3. Historical Ground-Water Flow Direction and Gradient, Station #374, 6407 Telegraph Ave., Oakland, CA
- Appendix A. URS Ground-Water Sampling Data Package (Includes Laboratory Report and Chain of Custody Documentation, Field and Laboratory Procedures, and Field Data Sheets)
- Appendix B. GeoTracker Upload Confirmation



LEGEND

- MONITORING WELL
- TANK PIT MONITORING WELL
- Well** — WELL DESIGNATION
- ELEV** — GROUND-WATER ELEVATION (FT MSL)
- GRO** — GRO, BENZENE & MTBE CONCENTRATIONS IN GROUND WATER (µg/L)
- Benzene**
- MTBE**
- A/Q/SA** — SAMPLING FREQUENCY
- < — NOT DETECTED AT OR ABOVE LABORATORY LIMITS
- Q — SAMPLED QUARTERLY
- SA(1,3) — SAMPLED SEMI-ANNUALLY, 1ST & 3RD QUARTERS
- A(3) — SAMPLED ANNUALLY, 3RD QUARTER
- NS — NOT SAMPLED
- — NOT SURVEYED TO TOC
- APPROXIMATE GROUND-WATER FLOW AND DIRECTION (FT/FT)
- 154.20 — GROUND-WATER ELEVATION CONTOUR (FT MSL)



NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

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

Station #374, 6407 Telegraph Ave., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)					DO (mg/L)	pH	
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			MTBE
MW-1															
6/20/2000	--		158.91	7.00	27.0	6.86	152.05	--	--	--	--	--	--	--	--
9/28/2000	--		158.91	7.00	27.0	7.5	151.41	--	--	--	--	--	--	--	--
12/17/2000	--		158.91	7.00	27.0	7.49	151.42	--	--	--	--	--	--	--	--
3/23/2001	--		158.91	7.00	27.0	5.9	153.01	<50	<0.5	<0.5	<0.5	<0.5	2,710	--	--
6/21/2001	--		158.91	7.00	27.0	7.45	151.46	--	--	--	--	--	--	--	--
9/23/2001	--		158.91	7.00	27.0	8.46	150.45	--	--	--	--	--	--	--	--
12/31/2001	--		158.91	7.00	27.0	5.5	153.41	--	--	--	--	--	--	--	--
3/21/2002	--		158.91	7.00	27.0	4.71	154.2	<5,000	<50	<50	<50	<50	2,000	--	--
4/17/2002	--		158.91	7.00	27.0	5.54	153.37	--	--	--	--	--	--	--	--
8/12/2002	--		158.91	7.00	27.0	7.77	151.14	--	--	--	--	--	--	--	--
12/6/2002	--		158.91	7.00	27.0	7.65	151.26	--	--	--	--	--	--	--	--
1/29/2003	--	b	158.91	7.00	27.0	5.88	153.03	--	--	--	--	--	--	--	--
5/23/2003	--		158.91	7.00	27.0	5.62	153.29	<10,000	<100	<100	<100	<100	1,600	1.3	7.1
9/4/2003	--		158.91	7.00	27.0	7.85	151.06	--	--	--	--	--	--	--	--
11/20/2003	P		158.91	7.00	27.0	8.17	150.74	1,600	<10	<10	<10	<10	1,500	1.7	6.7
02/02/2004	P	f	164.57	7.00	27.0	6.71	157.86	--	--	--	--	--	--	1.0	--
05/14/2004	P		164.57	7.00	27.0	7.08	157.49	<2,500	<25	<25	<25	<25	1,200	1.4	6.6
09/02/2004	P		164.57	7.00	27.0	8.12	156.45	580	<5.0	<5.0	<5.0	<5.0	660	3.8	6.7
11/04/2004	P		164.57	7.00	27.0	7.38	157.19	1,700	<10	<10	<10	<10	580	6.0	6.5
02/08/2005	P		164.57	7.00	27.0	6.60	157.97	<1,000	<10	<10	<10	<10	610	0.71	6.5
05/09/2005	P	e	164.57	7.00	27.0	6.84	157.73	540	<5.0	<5.0	<5.0	5.5	620	3.12	6.6
08/11/2005	P		164.57	7.00	27.0	7.36	157.21	540	<2.5	<2.5	<2.5	4.0	390	0.8	6.6
11/18/2005	P	c	164.57	7.00	27.0	8.02	156.55	350	<2.5	<2.5	<2.5	<2.5	340	2.6	6.7
02/16/2006	P	e	164.57	7.00	27.0	6.44	158.13	350	<2.5	<2.5	<2.5	<2.5	340	1.6	6.7
5/30/2006	P		164.57	7.00	27.0	6.87	157.70	270	<2.5	<2.5	<2.5	<2.5	420	4.73	6.4
8/24/2006	P		164.57	7.00	27.0	7.75	156.82	95	<5.0	<5.0	<5.0	<5.0	180	0.65	6.9
MW-2															
6/20/2000	--		157.92	7.00	27.0	7.67	150.25	--	--	--	--	--	--	--	--
9/28/2000	--		157.92	7.00	27.0	8.51	149.41	--	--	--	--	--	--	--	--
12/17/2000	--		157.92	7.00	27.0	8.14	149.78	--	--	--	--	--	--	--	--

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

Station #374, 6407 Telegraph Ave., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)					DO (mg/L)	pH	
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			MTBE
MW-2 Cont.															
3/23/2001	--		157.92	7.00	27.0	7.21	150.71	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
6/21/2001	--		157.92	7.00	27.0	7.99	149.93	--	--	--	--	--	--	--	--
9/23/2001	--		157.92	7.00	27.0	8.52	149.4	--	--	--	--	--	--	--	--
12/31/2001	--		157.92	7.00	27.0	6.01	151.91	--	--	--	--	--	--	--	--
3/21/2002	--		157.92	7.00	27.0	5.95	151.97	<50	<0.5	<0.5	<0.5	<0.5	45	--	--
4/17/2002	--		157.92	7.00	27.0	6.45	151.47	--	--	--	--	--	--	--	--
8/12/2002	--		157.92	7.00	27.0	8.08	149.84	--	--	--	--	--	--	--	--
12/6/2002	--		157.92	7.00	27.0	8.29	149.63	--	--	--	--	--	--	--	--
1/29/2003	--	b	157.92	7.00	27.0	7.22	150.7	--	--	--	--	--	--	--	--
5/23/2003	--		157.92	7.00	27.0	6.85	151.07	<50	<0.50	<0.50	<0.50	<0.50	55	1.4	7.2
9/4/2003	--		157.92	7.00	27.0	7.94	149.98	--	--	--	--	--	--	--	--
11/20/2003	--		157.92	7.00	27.0	8.05	149.87	--	--	--	--	--	--	--	--
02/02/2004	P	f	163.46	7.00	27.0	7.00	156.46	74	<0.50	<0.50	<0.50	<0.50	37	1.1	8.9
05/14/2004	--		163.46	7.00	27.0	7.97	155.49	--	--	--	--	--	--	--	--
09/02/2004	P		163.46	7.00	27.0	8.19	155.27	<250	<2.5	<2.5	<2.5	<2.5	67	2.7	6.9
11/04/2004	--		163.46	7.00	27.0	7.54	155.92	--	--	--	--	--	--	--	--
02/08/2005	P		163.46	7.00	27.0	6.72	156.74	<50	<0.50	<0.50	<0.50	<0.50	30	0.86	6.7
05/09/2005	--		163.46	7.00	27.0	7.16	156.30	--	--	--	--	--	--	--	--
08/11/2005	P		163.46	7.00	27.0	7.85	155.61	<50	<0.50	<0.50	<0.50	<0.50	35	1.0	6.6
11/18/2005	--		163.46	7.00	27.0	8.23	155.23	--	--	--	--	--	--	--	--
02/16/2006	P		163.46	7.00	27.0	6.82	156.64	<50	<0.50	<0.50	<0.50	<0.50	39	1.3	7.0
5/30/2006	--		163.46	7.00	27.0	7.23	156.23	--	--	--	--	--	--	--	--
8/24/2006	P		163.46	7.00	27.0	8.00	155.46	60	<0.50	<0.50	<0.50	<0.50	25	0.90	6.8
MW-3															
6/20/2000	--		153.64	7.00	27.0	6.42	147.22	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--
9/28/2000	--		153.64	7.00	27.0	7.31	146.33	--	--	--	--	--	--	--	--
12/17/2000	--		153.64	7.00	27.0	6.45	147.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/23/2001	--		153.64	7.00	27.0	6.01	147.63	--	--	--	--	--	--	--	--
6/21/2001	--		153.64	7.00	27.0	6.8	146.84	110	5.5	<0.5	5.4	4.1	2.5	--	--
9/23/2001	--		153.64	7.00	27.0	7.32	146.32	--	--	--	--	--	--	--	--

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

Station #374, 6407 Telegraph Ave., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)					DO (mg/L)	pH	
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			MTBE
MW-3 Cont.															
12/31/2001	--		153.64	7.00	27.0	4.48	149.16	<50	<0.5	<0.5	<0.5	<0.5	4.9	--	--
3/21/2002	--		153.64	7.00	27.0	4.36	149.28	--	--	--	--	--	--	--	--
4/17/2002	--		153.64	7.00	27.0	5.31	148.33	<50	<0.5	<0.5	<0.5	<0.5	8.7	--	--
8/12/2002	--		153.64	7.00	27.0	7	146.64	--	--	--	--	--	--	--	--
12/6/2002	--		153.64	7.00	27.0	7.32	146.32	<50	<0.5	<0.5	<0.5	<0.5	6.2	1.4	6.7
1/29/2003	--	b	153.64	7.00	27.0	6.07	147.57	--	--	--	--	--	--	--	--
5/23/2003	--		153.64	7.00	27.0	6.45	147.19	<50	<0.50	<0.50	<0.50	<0.50	1.6	0.9	7.7
9/4/2003	--	c	153.64	7.00	27.0	6.93	146.71	--	--	--	--	--	--	--	--
11/20/2003	--	c	153.64	7.00	27.0	7.04	146.60	--	--	--	--	--	--	--	--
02/02/2004	--	f	159.21	7.00	27.0	5.92	153.29	--	--	--	--	--	--	--	--
05/14/2004	--		159.21	7.00	27.0	7.52	151.69	--	--	--	--	--	--	--	--
09/02/2004	P		159.21	7.00	27.0	7.19	152.02	<50	<0.50	<0.50	<0.50	<0.50	6.5	9.3	8.9
11/04/2004	--		159.21	7.00	27.0	6.40	152.81	--	--	--	--	--	--	--	--
02/08/2005	--		159.21	7.00	27.0	6.01	153.20	--	--	--	--	--	--	--	--
05/09/2005	--		159.21	7.00	27.0	6.74	152.47	--	--	--	--	--	--	--	--
08/11/2005	P		159.21	7.00	27.0	6.77	152.44	<50	<0.50	<0.50	<0.50	<0.50	11	1.9	6.5
11/18/2005	--		159.21	7.00	27.0	7.83	151.38	--	--	--	--	--	--	--	--
02/16/2006	--		159.21	7.00	27.0	7.26	151.95	--	--	--	--	--	--	--	--
5/30/2006	--		159.21	7.00	27.0	5.82	153.39	--	--	--	--	--	--	--	--
8/24/2006	P		159.21	7.00	27.0	7.00	152.21	<50	<0.50	<0.50	<0.50	<0.50	7.6	1.15	6.4
MW-4															
6/20/2000	--	c	156.53	7.00	27.0	7.5	149.03	20,000	5,100	440	1,000	1,700	<250	--	--
9/28/2000	--		156.53	7.00	27.0	8.2	148.33	--	--	--	--	--	--	--	--
12/17/2000	--		156.53	7.00	27.0	8.11	148.42	4,320	1,240	<20	27.2	249	<100	--	--
3/23/2001	--		156.53	7.00	27.0	6.69	149.84	--	--	--	--	--	--	--	--
6/21/2001	--		156.53	7.00	27.0	8.01	148.52	2,800	470	16	19	160	130	--	--
9/23/2001	--		156.53	7.00	27.0	8.91	147.62	--	--	--	--	--	--	--	--
12/31/2001	--		156.53	7.00	27.0	4.42	152.11	4,600	1,500	100	160	210	160	--	--
3/21/2002	--		156.53	7.00	27.0	4.98	151.55	--	--	--	--	--	--	--	--
4/17/2002	--		156.53	7.00	27.0	6.23	150.3	7,100	2,200	110	290	450	<250	--	--

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

Station #374, 6407 Telegraph Ave., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)					DO (mg/L)	pH	
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			MTBE
MW-4 Cont.															
8/12/2002	--		156.53	7.00	27.0	8.24	148.29	--	--	--	--	--	--	--	--
12/6/2002	--	a	156.53	7.00	27.0	8.42	148.11	1,500	410	6.8	20	29	43	1.1	6.7
1/29/2003	--	b	156.53	7.00	27.0	7.2	149.33	--	--	--	--	--	--	--	--
5/23/2003	--		156.53	7.00	27.0	7.18	149.35	<5,000	1,300	89	210	260	<50	1.4	6.9
9/4/2003	--	c	156.53	7.00	27.0	8.15	148.38	--	--	--	--	--	--	--	--
11/20/2003	--	c	156.53	7.00	27.0	8.73	147.80	--	--	--	--	--	--	--	--
02/02/2004	P	c, f, g	163.25	7.00	27.0	6.25	157.00	980	280	21	29	38	29	1.4	10.6
05/14/2004	--	g	163.25	7.00	27.0	8.38	154.87	--	--	--	--	--	--	--	--
09/02/2004	P	g	163.25	7.00	27.0	8.36	154.89	260	11	<1.0	5.5	14	28	2.4	7.4
11/04/2004	--	c, g	163.25	7.00	27.0	7.71	155.54	--	--	--	--	--	--	--	--
02/08/2005	P	g	163.25	7.00	27.0	6.27	156.98	7,500	1,700	320	480	920	45	0.65	6.5
05/09/2005	--	g	163.25	7.00	27.0	5.90	157.35	--	--	--	--	--	--	--	--
08/11/2005	P	g	163.25	7.00	27.0	7.96	155.29	3,100	1,100	41	160	110	32	0.6	6.5
11/18/2005	--	g	163.25	7.00	27.0	8.57	154.68	--	--	--	--	--	--	--	--
02/16/2006	P	g	163.25	7.00	27.0	6.28	156.97	9,400	1,800	130	600	420	35	0.5	6.8
5/30/2006	--	g	163.25	7.00	27.0	7.02	156.23	--	--	--	--	--	--	--	--
8/24/2006	P	g	162.47	7.00	27.0	8.26	154.21	3,600	1,400	21	110	70	39	1.00	6.8
MW-5															
6/20/2000	--		151.33	10.00	23.0	7.84	143.49	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--
9/28/2000	--		151.33	10.00	23.0	8.37	142.96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/17/2000	--		151.33	10.00	23.0	8.36	142.97	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/23/2001	--		151.33	10.00	23.0	7.55	143.78	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
6/21/2001	--		151.33	10.00	23.0	8.2	143.13	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
9/23/2001	--		151.33	10.00	23.0	8.68	142.65	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/31/2001	--		151.33	10.00	23.0	7.57	143.76	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/21/2002	--		151.33	10.00	23.0	6.12	145.21	<50	<0.5	<0.5	<0.5	<0.5	3.2	--	--
4/17/2002	--		151.33	10.00	23.0	6.61	144.72	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
8/12/2002	--		151.33	10.00	23.0	8.14	143.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5	4.1	7.6
12/6/2002	--		151.33	10.00	23.0	8.65	142.68	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1.1	6.8
1/29/2003	--	b	151.33	10.00	23.0	7.22	144.11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	1	6.6

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

Station #374, 6407 Telegraph Ave., Oakland, CA

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)						DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE		
MW-5 Cont.															
5/23/2003	--		151.33	10.00	23.0	7.31	144.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	6.6
9/4/2003	--		151.33	10.00	23.0	9.5	141.83	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	6.7
11/20/2003	--		151.33	10.00	23.0	8.31	143.02	--	--	--	--	--	--	--	--
02/02/2004	--	c, f, h	151.33	10.00	23.0	6.92	144.41	--	--	--	--	--	--	--	--
05/14/2004	--	h	151.33	10.00	23.0	8.56	142.77	--	--	--	--	--	--	--	--
09/02/2004	P	h	151.33	10.00	23.0	8.79	142.54	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.5	6.8
11/04/2004	--	c, h	151.33	10.00	23.0	8.33	143.00	--	--	--	--	--	--	--	--
02/08/2005	--	h	151.33	10.00	23.0	7.28	144.05	--	--	--	--	--	--	--	--
05/09/2005	--	h	151.33	10.00	23.0	8.19	143.14	--	--	--	--	--	--	--	--
08/11/2005	P	h	151.33	10.00	23.0	8.39	142.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	6.6
11/18/2005	--	h	151.33	10.00	23.0	11.25	140.08	--	--	--	--	--	--	--	--
02/16/2006	--	h	151.33	10.00	23.0	9.22	142.11	--	--	--	--	--	--	--	--
5/30/2006	--	h	151.33	10.00	23.0	7.52	143.81	--	--	--	--	--	--	--	--
8/24/2006	P	h	--	10.00	23.0	7.95	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.60	6.6
MW-6															
6/20/2000	--		153.84	5.00	15.0	4.79	149.05	--	--	--	--	--	--	--	--
9/28/2000	--		153.84	5.00	15.0	5.39	148.45	--	--	--	--	--	--	--	--
12/17/2000	--		153.84	5.00	15.0	4.71	149.13	--	--	--	--	--	--	--	--
3/23/2001	--		153.84	5.00	15.0	4.69	149.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
6/21/2001	--		153.84	5.00	15.0	5.22	148.62	--	--	--	--	--	--	--	--
9/23/2001	--		153.84	5.00	15.0	5.4	148.44	--	--	--	--	--	--	--	--
12/31/2001	--		153.84	5.00	15.0	3.95	149.89	--	--	--	--	--	--	--	--
3/21/2002	--		153.84	5.00	15.0	2.94	150.9	<50	<0.5	<0.5	<0.5	<0.5	5.2	--	--
4/17/2002	--		153.84	5.00	15.0	5.11	148.73	--	--	--	--	--	--	--	--
8/12/2002	--		153.84	5.00	15.0	5.23	148.61	--	--	--	--	--	--	--	--
12/6/2002	--		153.84	5.00	15.0	5.29	148.55	--	--	--	--	--	--	--	--
1/29/2003	--	b	153.84	5.00	15.0	4.79	149.05	--	--	--	--	--	--	--	--
5/23/2003	--		153.84	5.00	15.0	4.31	149.53	<50	<0.50	<0.50	<0.50	<0.50	9.4	1	6.7
09/04/03	--	d	153.84	5.00	15.0	--	--	--	--	--	--	--	--	--	--
11/20/2003	--		153.84	5.00	15.0	6.31	147.53	--	--	--	--	--	--	--	--

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #374, 6407 Telegraph Ave., Oakland, CA**

Well and Sample Date	P/NP	Comments	TOC (feet msl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)					DO (mg/L)	pH	
								GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes			MTBE
MW-6 Cont.															
02/02/2004	--		159.41	5.00	15.0	4.78	154.63	--	--	--	--	--	--	--	
05/14/2004	--		159.41	5.00	15.0	6.29	153.12	--	--	--	--	--	--	--	
09/02/2004	--	d	159.41	5.00	15.0	5.79	153.62	--	--	--	--	--	--	--	
11/04/2004	--	d	159.41	5.00	15.0	--	--	--	--	--	--	--	--	--	
02/08/2005	--		159.41	5.00	15.0	5.13	154.28	--	--	--	--	--	--	--	
05/09/2005	--		159.41	5.00	15.0	4.52	154.89	--	--	--	--	--	--	--	
08/11/2005	P		159.41	5.00	15.0	5.02	154.39	<50	<0.50	<0.50	<0.50	<0.50	7.9	2.1	6.6
11/18/2005	--		159.41	5.00	15.0	6.31	153.10	--	--	--	--	--	--	--	
02/16/2006	--		159.41	5.00	15.0	4.24	155.17	--	--	--	--	--	--	--	
5/30/2006	--		159.41	5.00	15.0	4.45	154.96	--	--	--	--	--	--	--	
8/24/2006	P		159.41	5.00	15.0	5.18	154.23	<50	<0.50	<0.50	<0.50	<0.50	12	3.4	6.8

SYMBOLS AND ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above 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 was not purged prior to sampling
P = Well was purged prior to sampling
TOC = Top of casing measured in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter
BTEX = Benzene, toluene, ethylbenzene and xylenes

FOOTNOTES:

a = Chromatogram pattern: Gasoline C6-C10 for GRO/TPH-g.
b = Beginning this quarter, groundwater samples were analyzed by EPA method 8260B for TPH-g, BTEX, and fuel oxygenates.
c = Wells gauged with ORC sock in well.
d = Well inaccessible
e = The hydrocarbon result for GRO was partly due to individual peaks in the quantitative range.
f = Well resurveyed on 1/27/2004
g = Upon review of survey data (1/27/2004), TOC elevation for MW-4 is actually 162.47 ft.
h = Upon review of survey data (1/27/2004), MW-5 was not surveyed from the TOC. MW-5 was surveyed from the pavement due to inaccessibility to the TOC. Therefore, survey data for MW-5 from the TOC is unavailable.

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.

The DTW's and TOC's for wells MW-5 and MW-6 were taken from Delta Environmental sampling sheets because the well logs were not available.

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 #374, 6407 Telegraph Ave., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
5/23/2003	<20,000	<4,000	1,600	<100	<100	<100	--	--	
11/20/2003	<2,000	<400	1,500	<10	<10	<10	--	--	a
05/14/2004	<5,000	<1,000	1,200	<25	<25	<25	<25	<25	
09/02/2004	<1,000	<200	660	<5.0	<5.0	<5.0	<5.0	<5.0	
11/04/2004	<2,000	<400	580	<10	<10	<10	<10	<10	
02/08/2005	<2,000	<400	610	<10	<10	<10	<10	<10	
05/09/2005	<1,000	<200	620	<5.0	<5.0	<5.0	<5.0	<5.0	a
08/11/2005	<500	250	390	<2.5	<2.5	2.6	<2.5	<2.5	a
11/18/2005	<500	<100	340	<2.5	<2.5	<2.5	<2.5	<2.5	a
02/16/2006	<1,500	<100	340	<2.5	<2.5	<2.5	<2.5	<2.5	
5/30/2006	<1,500	<100	420	<2.5	<2.5	<2.5	<2.5	<2.5	a
8/24/2006	<3,000	<200	180	<5.0	<5.0	<5.0	<5.0	<5.0	
MW-2									
5/23/2003	<100	<20	55	<0.50	<0.50	0.53	--	--	
02/02/2004	<100	<20	37	<0.50	<0.50	<0.50	<0.50	<0.50	
09/02/2004	<500	<100	67	<2.5	<2.5	<2.5	<2.5	<2.5	
02/08/2005	<100	<20	30	<0.50	<0.50	<0.50	<0.50	<0.50	
08/11/2005	<100	<20	35	<0.50	<0.50	<0.50	<0.50	<0.50	a
02/16/2006	<300	<20	39	<0.50	<0.50	<0.50	<0.50	<0.50	
8/24/2006	<300	<20	25	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3									
5/23/2003	<100	<20	1.6	<0.50	<0.50	<0.50	--	--	
09/02/2004	<100	<20	6.5	<0.50	<0.50	<0.50	<0.50	<0.50	
08/11/2005	<100	<20	11	<0.50	<0.50	<0.50	<0.50	<0.50	a
8/24/2006	<300	<20	7.6	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4									
5/23/2003	<10,000	<2,000	<50	<50	<50	<50	--	--	
02/02/2004	<500	<100	29	<2.5	<2.5	2.6	<2.5	<2.5	
09/02/2004	<200	<40	28	<1.0	<1.0	<1.0	<1.0	<1.0	
02/08/2005	<5,000	<1,000	45	<25	<25	<25	<25	<25	

Table 2. Summary of Fuel Additives Analytical Data
Station #374, 6407 Telegraph Ave., Oakland, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
08/11/2005	<2,000	<400	32	<10	<10	<10	<10	<10	
02/16/2006	<6,000	<400	35	<10	<10	<10	<10	<10	
8/24/2006	<1,500	<100	39	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-5									
1/29/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
5/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
9/4/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
09/02/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/11/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/24/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-6									
5/23/2003	<100	<20	9.4	<0.50	<0.50	<0.50	--	--	
08/11/2005	<100	<20	7.9	<0.50	<0.50	<0.50	<0.50	<0.50	a
8/24/2006	<300	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	

SYMBOLS AND ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above the 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 continuing calibration verification for ethanol was outside of client contractual 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 #374, 6407 Telegraph Ave., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
1/31/1996	Southwest	0.04
4/10/1996	Southwest	0.04
7/16/1996	Southwest	0.03
10/14/1996	Southwest	0.03
3/27/1997	Southwest	0.04
5/27/1997	Southwest	0.03
8/12/1997	Southwest	0.04
11/17/1997	Southwest	0.03
3/16/1998	Southwest	0.03
5/12/1998	Southwest	0.04
7/27/1998	Southwest	0.04
10/15/1998	Southwest	0.02
2/18/1999	Southwest	0.05
5/24/1999	Southwest	0.03
8/27/1999	Southwest	0.03
10/26/1999	Southwest	0.03
2/3/2000	Southwest	0.047
6/20/2000	Southwest	0.035
9/28/2000	Southwest	0.034
12/17/2000	Southwest	0.032
3/23/2001	Southwest	0.034
6/21/2001	Southwest	0.032
9/23/2001	Southwest	0.029
12/31/2001	Southwest	0.043
3/21/2002	Southwest	0.038
4/17/2002	Southwest	0.031
8/12/2002	Southwest	0.032
12/6/2002	Southwest	0.020
1/29/2003	Southwest	0.027
5/23/2003	Southwest	0.039
9/4/2003	Southwest	0.033
11/20/2003	Southwest	0.029
2/2/2004	Southwest	0.043 (a)
5/14/2004	Southwest	0.037 (a)
9/2/2004	Southwest	0.027 (a)
11/4/2004	Southwest	0.034 (a)
2/8/2005	Southwest	0.061 (a)
5/9/2005	Southwest	0.08 (a)
8/11/2005	Southwest	0.06 (a)
11/18/2005	Southwest	0.07 (a)
2/16/2006	Southwest	0.09 (a)
5/30/2006	Southwest	0.06 (a)

Table 3. Historical Ground-Water Flow Direction and Gradient
Station #374, 6407 Telegraph Ave., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
8/24/2006	Southwest	0.03

a = Gradients potentially suspect due to error in MW-4 and MW-5 TOC measuring point elevations discovered third quarter 2006.

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.

APPENDIX A

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



September 27, 2006

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

Groundwater Sampling Data Package

ARCO Service Station #374
6407 Telegraph Avenue
Oakland, CA
Field Work Performed: 08/24/06

General Information

Data Submittal Prepared/Reviewed by: Scott Rice

Phone Number: 916-679-2095

On-Site Supplier Representative: Blaine Tech

Scope of Work Performed: Groundwater Monitoring in accordance with 3rd Quarter 2006 protocols as identified in the Quarterly Monitoring Program Table in the Field and Laboratory Procedures Attachment.

Variations from Work Scope: None

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include, at a minimum, sampling procedures, field data collected, laboratory results, chain of custody documentation, and waste management activities. 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.




Scott Rice, P.G.
Portfolio Manager

cc: Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS



Attachments

Field and Laboratory Procedures

Laboratory Report

Chain of Custody Documentation

Field Data Sheets

Well Gauging Data

Well Monitoring Data Sheets

FIELD & LABORATORY PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe. Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by RM have been reviewed and verified by that laboratory.

21 September, 2006

Lynelle Onishi
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: ARCO #0374, Oakland, CA
Work Order: MPH0890

Enclosed are the results of analyses for samples received by the laboratory on 08/24/06 18:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #0374, Oakland, CA Project Number: G0C21-0010 Project Manager: Lynelle Onishi	MPH0890 Reported: 09/21/06 15:21
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MPH0890-01	Water	08/24/06 11:35	08/24/06 18:25
MW-2	MPH0890-02	Water	08/24/06 10:35	08/24/06 18:25
MW-3	MPH0890-03	Water	08/24/06 10:12	08/24/06 18:25
MW-4	MPH0890-04	Water	08/24/06 11:00	08/24/06 18:25
MW-5	MPH0890-05	Water	08/24/06 09:20	08/24/06 18:25
MW-6	MPH0890-06	Water	08/24/06 09:50	08/24/06 18:25
TB-374-08242006	MPH0890-07	Water	08/24/06 00:00	08/24/06 18:25

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with custody seals.

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0010
Project Manager: Lynelle Onishi

MPH0890
Reported:
09/21/06 15:21

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MPH0890-01) Water Sampled: 08/24/06 11:35 Received: 08/24/06 18:25									
Gasoline Range Organics (C4-C12)	95	50	ug/l	1	6102002	09/02/06	09/02/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		117 %	60-145		"	"	"	"	
MW-2 (MPH0890-02) Water Sampled: 08/24/06 10:35 Received: 08/24/06 18:25									
Gasoline Range Organics (C4-C12)	60	50	ug/l	1	6102002	09/02/06	09/02/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		129 %	60-145		"	"	"	"	
MW-3 (MPH0890-03) Water Sampled: 08/24/06 10:12 Received: 08/24/06 18:25									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6102002	09/02/06	09/02/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		131 %	60-145		"	"	"	"	
MW-4 (MPH0890-04) Water Sampled: 08/24/06 11:00 Received: 08/24/06 18:25									
Gasoline Range Organics (C4-C12)	3600	1000	ug/l	20	6102002	09/02/06	09/02/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		142 %	60-145		"	"	"	"	
MW-5 (MPH0890-05) Water Sampled: 08/24/06 09:20 Received: 08/24/06 18:25									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6102008	09/02/06	09/03/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		117 %	60-145		"	"	"	"	
MW-6 (MPH0890-06) Water Sampled: 08/24/06 09:50 Received: 08/24/06 18:25									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6102008	09/02/06	09/03/06	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		119 %	60-145		"	"	"	"	

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0010
Project Manager: Lynelle Onishi

MPH0890
Reported:
09/21/06 15:21

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-1 (MPH0890-01) Water Sampled: 08/24/06 11:35 Received: 08/24/06 18:25

tert-Amyl methyl ether	ND	5.0	ug/l	10	6102003	09/02/06	09/03/06	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	3000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	180	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

94 % 75-130

"

"

"

"

"

Surrogate: 1,2-Dichloroethane-d4

87 % 60-145

"

"

"

"

"

Surrogate: Toluene-d8

90 % 70-130

"

"

"

"

"

Surrogate: 4-Bromofluorobenzene

82 % 60-120

"

"

"

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"

MW-2 (MPH0890-02) Water Sampled: 08/24/06 10:35 Received: 08/24/06 18:25

tert-Amyl methyl ether	ND	0.50	ug/l	1	6102003	09/02/06	09/03/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	25	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

95 % 75-130

"

"

"

"

"

Surrogate: 1,2-Dichloroethane-d4

89 % 60-145

"

"

"

"

"

Surrogate: Toluene-d8

88 % 70-130

"

"

"

"

"

Surrogate: 4-Bromofluorobenzene

84 % 60-120

"

"

"

"

"

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0010
Project Manager: Lynelle Onishi

MPH0890
Reported:
09/21/06 15:21

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-3 (MPH0890-03) Water Sampled: 08/24/06 10:12 Received: 08/24/06 18:25

tert-Amyl methyl ether	ND	0.50	ug/l	1	6102003	09/02/06	09/03/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	7.6	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

94 % 75-130

Surrogate: 1,2-Dichloroethane-d4

86 % 60-145

Surrogate: Toluene-d8

88 % 70-130

Surrogate: 4-Bromofluorobenzene

87 % 60-120

MW-4 (MPH0890-04) Water Sampled: 08/24/06 11:00 Received: 08/24/06 18:25

tert-Amyl methyl ether	ND	2.5	ug/l	5	6102003	09/02/06	09/03/06	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	1500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	110	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	39	2.5	"	"	"	"	"	"	
Toluene	21	2.5	"	"	"	"	"	"	
Xylenes (total)	70	2.5	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

94 % 75-130

Surrogate: 1,2-Dichloroethane-d4

84 % 60-145

Surrogate: Toluene-d8

94 % 70-130

Surrogate: 4-Bromofluorobenzene

96 % 60-120

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0010
Project Manager: Lynelle Onishi

MPH0890
Reported:
09/21/06 15:21

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
MW-4 (MPH0890-04RE1) Water Sampled: 08/24/06 11:00 Received: 08/24/06 18:25									
Benzene	1400	5.0	ug/l	10	6105028	09/05/06	09/06/06	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>98 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>96 %</i>	<i>60-145</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>104 %</i>	<i>70-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>96 %</i>	<i>60-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
MW-5 (MPH0890-05) Water Sampled: 08/24/06 09:20 Received: 08/24/06 18:25									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6102003	09/02/06	09/03/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>93 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>83 %</i>	<i>60-145</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>89 %</i>	<i>70-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>84 %</i>	<i>60-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
MW-6 (MPH0890-06) Water Sampled: 08/24/06 09:50 Received: 08/24/06 18:25									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6105028	09/05/06	09/06/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	12	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>97 %</i>	<i>75-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0010
Project Manager: Lynelle Onishi

MPH0890
Reported:
09/21/06 15:21

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-6 (MPH0890-06) Water Sampled: 08/24/06 09:50 Received: 08/24/06 18:25

Surrogate: 1,2-Dichloroethane-d4		93 %	60-145		6105028	09/05/06	09/06/06	EPA 8260B	
Surrogate: Toluene-d8		89 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80 %	60-120		"	"	"	"	

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0010
Project Manager: Lynelle Onishi

MPH0890
Reported:
09/21/06 15:21

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6I02002 - EPA 5030B P/T / LUFT GCMS

Blank (6I02002-BLK1)

Prepared & Analyzed: 09/02/06

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.98		"	2.50		119	60-145			

Laboratory Control Sample (6I02002-BS1)

Prepared & Analyzed: 09/02/06

Gasoline Range Organics (C4-C12)	465	50	ug/l	440		106	75-140			
Surrogate: 1,2-Dichloroethane-d4	3.09		"	2.50		124	60-145			

Matrix Spike (6I02002-MS1)

Source: MPH0890-01RE1

Prepared & Analyzed: 09/02/06

Gasoline Range Organics (C4-C12)	2670	250	ug/l	2200	57	119	75-140			
Surrogate: 1,2-Dichloroethane-d4	3.12		"	2.50		125	60-145			

Matrix Spike Dup (6I02002-MSD1)

Source: MPH0890-01RE1

Prepared & Analyzed: 09/02/06

Gasoline Range Organics (C4-C12)	2520	250	ug/l	2200	57	112	75-140	6	20	
Surrogate: 1,2-Dichloroethane-d4	2.94		"	2.50		118	60-145			

Batch 6I02008 - EPA 5030B P/T / LUFT GCMS

Blank (6I02008-BLK1)

Prepared & Analyzed: 09/02/06

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.88		"	2.50		115	60-145			

Laboratory Control Sample (6I02008-BS1)

Prepared & Analyzed: 09/02/06

Gasoline Range Organics (C4-C12)	485	50	ug/l	440		110	75-140			
Surrogate: 1,2-Dichloroethane-d4	3.16		"	2.50		126	60-145			

Matrix Spike (6I02008-MS1)

Source: MPH0906-01

Prepared & Analyzed: 09/02/06

Gasoline Range Organics (C4-C12)	16900	1000	ug/l	8800	12000	56	75-140			LN
Surrogate: 1,2-Dichloroethane-d4	3.52		"	2.50		141	60-145			

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #0374, Oakland, CA Project Number: G0C21-0010 Project Manager: Lynelle Onishi	MPH0890 Reported: 09/21/06 15:21
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**Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6I02008 - EPA 5030B P/T / LUFT GCMS

Matrix Spike Dup (6I02008-MSD1)	Source: MPH0906-01		Prepared & Analyzed: 09/02/06							
Gasoline Range Organics (C4-C12)	15000	1000	ug/l	8800	12000	34	75-140	12	20	LN
Surrogate: 1,2-Dichloroethane-d4	3.38		"	2.50		135	60-145			

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0010
Project Manager: Lynelle Onishi

MPH0890
Reported:
09/21/06 15:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6I02003 - EPA 5030B P/T / EPA 8260B

Blank (6I02003-BLK1)

Prepared & Analyzed: 09/02/06

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.42		"	2.50		97	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.16		"	2.50		86	60-145			
<i>Surrogate: Toluene-d8</i>	2.21		"	2.50		88	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.13		"	2.50		85	60-120			

Laboratory Control Sample (6I02003-BS1)

Prepared & Analyzed: 09/02/06

tert-Amyl methyl ether	8.47	0.50	ug/l	10.0		85	65-135			
Benzene	10.8	0.50	"	10.0		108	70-125			
tert-Butyl alcohol	213	20	"	200		106	60-135			
Di-isopropyl ether	10.2	0.50	"	10.0		102	70-130			
1,2-Dibromoethane (EDB)	9.02	0.50	"	10.0		90	80-125			
1,2-Dichloroethane	9.26	0.50	"	10.0		93	75-125			
Ethanol	271	300	"	200		136	15-150			
Ethyl tert-butyl ether	8.91	0.50	"	10.0		89	65-130			
Ethylbenzene	10.6	0.50	"	10.0		106	70-130			
Methyl tert-butyl ether	8.91	0.50	"	10.0		89	50-140			
Toluene	10.9	0.50	"	10.0		109	70-120			
Xylenes (total)	31.9	0.50	"	30.0		106	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.34		"	2.50		94	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	1.98		"	2.50		79	60-145			
<i>Surrogate: Toluene-d8</i>	2.33		"	2.50		93	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.25		"	2.50		90	60-120			

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0010
Project Manager: Lynelle Onishi

MPH0890
Reported:
09/21/06 15:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6I02003 - EPA 5030B P/T / EPA 8260B

Matrix Spike (6I02003-MS1)	Source: MPH0892-01			Prepared & Analyzed: 09/02/06						
tert-Amyl methyl ether	8.41	0.50	ug/l	10.0	ND	84	65-135			
Benzene	10.6	0.50	"	10.0	ND	106	70-125			
tert-Butyl alcohol	210	20	"	200	ND	105	60-135			
Di-isopropyl ether	10.2	0.50	"	10.0	ND	102	70-130			
1,2-Dibromoethane (EDB)	9.00	0.50	"	10.0	ND	90	80-125			
1,2-Dichloroethane	9.07	0.50	"	10.0	ND	91	75-125			
Ethanol	259	300	"	200	ND	130	15-150			
Ethyl tert-butyl ether	8.94	0.50	"	10.0	ND	89	65-130			
Ethylbenzene	10.3	0.50	"	10.0	ND	103	70-130			
Methyl tert-butyl ether	9.07	0.50	"	10.0	ND	91	50-140			
Toluene	10.6	0.50	"	10.0	0.30	103	70-120			
Xylenes (total)	31.6	0.50	"	30.0	ND	105	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.38		"	2.50		95	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.11		"	2.50		84	60-145			
<i>Surrogate: Toluene-d8</i>	2.34		"	2.50		94	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.17		"	2.50		87	60-120			

Matrix Spike Dup (6I02003-MSD1)	Source: MPH0892-01			Prepared & Analyzed: 09/02/06						
tert-Amyl methyl ether	8.57	0.50	ug/l	10.0	ND	86	65-135	2	25	
Benzene	10.6	0.50	"	10.0	ND	106	70-125	0	15	
tert-Butyl alcohol	212	20	"	200	ND	106	60-135	0.9	35	
Di-isopropyl ether	10.3	0.50	"	10.0	ND	103	70-130	1	35	
1,2-Dibromoethane (EDB)	9.15	0.50	"	10.0	ND	92	80-125	2	15	
1,2-Dichloroethane	9.34	0.50	"	10.0	ND	93	75-125	3	10	
Ethanol	257	300	"	200	ND	128	15-150	0.8	35	
Ethyl tert-butyl ether	9.17	0.50	"	10.0	ND	92	65-130	3	35	
Ethylbenzene	10.4	0.50	"	10.0	ND	104	70-130	1	15	
Methyl tert-butyl ether	9.26	0.50	"	10.0	ND	93	50-140	2	25	
Toluene	10.5	0.50	"	10.0	0.30	102	70-120	0.9	15	
Xylenes (total)	31.4	0.50	"	30.0	ND	105	80-125	0.6	15	
<i>Surrogate: Dibromofluoromethane</i>	2.43		"	2.50		97	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.12		"	2.50		85	60-145			
<i>Surrogate: Toluene-d8</i>	2.31		"	2.50		92	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.18		"	2.50		87	60-120			

URS Corporation [Arco]
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Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0010
Project Manager: Lynelle Onishi

MPH0890
Reported:
09/21/06 15:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6105028 - EPA 5030B P/T / EPA 8260B

Blank (6105028-BLK1)

Prepared & Analyzed: 09/05/06

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.32		"	2.50		93	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.12		"	2.50		85	60-145			
<i>Surrogate: Toluene-d8</i>	2.33		"	2.50		93	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.13		"	2.50		85	60-120			

Laboratory Control Sample (6105028-BS1)

Prepared & Analyzed: 09/05/06

tert-Amyl methyl ether	10.4	0.50	ug/l	10.0		104	65-135			
Benzene	11.6	0.50	"	10.0		116	70-125			
tert-Butyl alcohol	214	5.0	"	200		107	60-135			
Di-isopropyl ether	11.6	0.50	"	10.0		116	70-130			
1,2-Dibromoethane (EDB)	11.5	0.50	"	10.0		115	80-125			
1,2-Dichloroethane	10.0	0.50	"	10.0		100	75-125			
Ethanol	210	300	"	200		105	15-150			
Ethyl tert-butyl ether	12.0	0.50	"	10.0		120	65-130			
Ethylbenzene	11.9	0.50	"	10.0		119	70-130			
Methyl tert-butyl ether	11.8	0.50	"	10.0		118	50-140			
Toluene	11.2	0.50	"	10.0		112	70-120			
Xylenes (total)	36.6	0.50	"	30.0		122	80-125			
<i>Surrogate: Dibromofluoromethane</i>	2.41		"	2.50		96	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.21		"	2.50		88	60-145			
<i>Surrogate: Toluene-d8</i>	2.49		"	2.50		100	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.47		"	2.50		99	60-120			

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0010
Project Manager: Lynelle Onishi

MPH0890
Reported:
09/21/06 15:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6I05028 - EPA 5030B P/T / EPA 8260B

Matrix Spike (6I05028-MS1)	Source: MPH0904-03	Prepared & Analyzed: 09/05/06								
tert-Amyl methyl ether	22.7	1.0	ug/l	20.0	ND	114	65-135			
Benzene	427	1.0	"	20.0	380	235	70-125			BB,LM,EY
tert-Butyl alcohol	446	10	"	400	ND	112	60-135			
Di-isopropyl ether	28.2	1.0	"	20.0	ND	141	70-130			LM
1,2-Dibromoethane (EDB)	24.3	1.0	"	20.0	ND	122	80-125			
1,2-Dichloroethane	23.3	1.0	"	20.0	0.46	114	75-125			
Ethanol	476	600	"	400	ND	119	15-150			
Ethyl tert-butyl ether	27.2	1.0	"	20.0	ND	136	65-130			LM
Ethylbenzene	49.7	1.0	"	20.0	23	134	70-130			LM
Methyl tert-butyl ether	52.5	1.0	"	20.0	26	132	50-140			
Toluene	25.6	1.0	"	20.0	1.9	118	70-120			
Xylenes (total)	88.1	1.0	"	60.0	12	127	80-125			LM
Surrogate: Dibromofluoromethane	2.41		"	2.50		96	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.44		"	2.50		98	60-145			
Surrogate: Toluene-d8	2.68		"	2.50		107	70-130			
Surrogate: 4-Bromofluorobenzene	2.62		"	2.50		105	60-120			

Matrix Spike Dup (6I05028-MSD1)	Source: MPH0904-03	Prepared & Analyzed: 09/05/06								
tert-Amyl methyl ether	19.7	1.0	ug/l	20.0	ND	98	65-135	14	25	
Benzene	373	1.0	"	20.0	380	0	70-125	14	15	BB,LN
tert-Butyl alcohol	415	10	"	400	ND	104	60-135	7	35	
Di-isopropyl ether	22.2	1.0	"	20.0	ND	111	70-130	24	35	
1,2-Dibromoethane (EDB)	21.6	1.0	"	20.0	ND	108	80-125	12	15	
1,2-Dichloroethane	18.9	1.0	"	20.0	0.46	92	75-125	21	10	BA,BB
Ethanol	403	600	"	400	ND	101	15-150	17	35	
Ethyl tert-butyl ether	22.4	1.0	"	20.0	ND	112	65-130	19	35	
Ethylbenzene	45.4	1.0	"	20.0	23	112	70-130	9	15	
Methyl tert-butyl ether	44.9	1.0	"	20.0	26	95	50-140	16	25	
Toluene	24.1	1.0	"	20.0	1.9	111	70-120	6	15	
Xylenes (total)	83.5	1.0	"	60.0	12	119	80-125	5	15	
Surrogate: Dibromofluoromethane	2.38		"	2.50		95	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.17		"	2.50		87	60-145			
Surrogate: Toluene-d8	2.65		"	2.50		106	70-130			
Surrogate: 4-Bromofluorobenzene	2.46		"	2.50		98	60-120			

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0010
Project Manager: Lynelle Onishi

MPH0890
Reported:
09/21/06 15:21

Notes and Definitions

LN MS and/or MSD below acceptance limits. See Blank Spike(LCS).
LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).
EY Result exceeds normal dynamic range; reported as a min. est.
BB, LN Sample > 4x spike concentration.
BB, LM Sample > 4x spike concentration. MS and/or MSD above acceptance limits. See Blank Spike(LCS).
BA, BB Relative percent difference out of control. Sample > 4x spike concentration.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



Chain of Custody Record

Project Name: Analytical for QMR sampling
 BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 374 > Historical/BL
 State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fran
 Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: 0800 Temp: _____
 Off-site Time: 1230 Temp: _____
 Sky Conditions: Clear
 Meteorological Events: _____
 Wind Speed: _____ Direction: _____

Lab Name: <u>Sequoia</u> Address: <u>885 Jarvis Drive</u> <u>Morgan Hill, CA 95037</u>				BP/AR Facility No.: <u>374</u> BP/AR Facility Address: <u>6407 Telegraph Ave., Oakland, CA 94609</u> Site Lat/Long: <u>37.850526 / -122.260</u>				Consultant/Contractor: <u>URS</u> Address: <u>1333 Broadway, Suite 800</u> <u>Oakland, CA 94612</u>																									
Lab PM: <u>Lisa Race / Katt Min</u> Tele/Fax: <u>408.782.8156 / 408.782.6308</u>				California Global ID No.: <u>T0600100106</u> Enfos Project No.: <u>G0C21-0010</u>				Consultant/Contractor Project No.: <u>38487519</u> Consultant/Contractor PM: <u>Barb Jakub</u>																									
BP/AR PM Contact: <u>Paul Supple</u> Address: <u>P.O. Box 6549</u> <u>Moraga, CA 94570</u> Tele/Fax: <u>925.299.8891 / 925.299.8872</u>				Provision or RCOP: <u>Provision</u> Phase/WBS: <u>04 - Mon/Remed by Natural Attenuation</u> Sub Phase/Task: <u>03 - Analytical</u> Cost Element: <u>05 - Subcontracted Costs</u>				Tele/Fax: <u>510.874.3296 / 510.874.3268</u> Report Type & QC Level: <u>Level 1 with EDF</u> E-mail EDD To: <u>jane.field@urscorp.com</u> Invoice to: <u>Atlantic Richfield Company</u>																									
Lab Bottle Order No: <u>374</u>										Matrix					<u>MPH0890</u> Sample Point Lat/Long and Comments																		
Item No.		Sample Description		Time	Date	Soil/Solid Water/Liquid Air			Laboratory No.		No. of Containers	Preservative								Requested Analysis													
												Unpreserved																					
												H ₂ SO ₄																					
												HNO ₃																					
												HCl																					
												Methanol																					
												GRO/BTEX (3260)																					
												MTBE, TAME, ETBE																					
												DPE, TBA (3260)																					
												EDB, 1,2-DCA (3260)																					
												Ethanol (3260)																					
1		<u>MW-1</u>		<u>1135</u>	<u>8/24/06</u>	<u>X</u>			<u>61</u>		<u>3</u>																						
2		<u>MW-2</u>		<u>1035</u>					<u>02</u>		<u>1</u>	<u>X</u>																					
3		<u>MW-3</u>		<u>1012</u>					<u>03</u>		<u>1</u>	<u>X</u>																					
4		<u>MW-4</u>		<u>1100</u>					<u>04</u>		<u>1</u>	<u>X</u>																					
5		<u>MW-5</u>		<u>920</u>					<u>05</u>		<u>1</u>	<u>X</u>																					
6		<u>MW-6</u>		<u>0950</u>					<u>04</u>		<u>1</u>	<u>X</u>																					
7		<u>TB-374-08242006</u>			<u>24</u>				<u>07</u>		<u>2</u>	<u>X</u>			<u>32</u>																		
8															<u>ON HOLD</u>																		
9																																	
10																																	
Sampler's Name: <u>Will Crow / Dan Rompf</u>										Relinquished By / Affiliation: _____										Date: <u>8/24/06</u>	Time: <u>1632</u>	Accepted By / Affiliation: _____				Date: <u>8/24/06</u>	Time: <u>1632</u>						
Sampler's Company: <u>Blaine Tech</u>										<u>(Sample Custodian)</u>										<u>8/24/06</u>	<u>1632</u>	<u>(Date/Time)</u>				<u>8/24</u>	<u>1700</u>						
Shipment Date: _____										Shipment Method: _____										<u>8/24</u>	<u>1805</u>	<u>Julie Ma. (MT)</u>				<u>8/24</u>	<u>1825</u>						
Shipment Tracking No: _____										Special Instructions: <u>CC to [redacted]@broadbentinc.com</u>																							
Custody Seals In Place Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				Temp Blank Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Cooler Temperature on Receipt: <u>2.2 F(C)</u>								Trip Blank Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor																				BP COC Rev. 4 10/1/04													

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
 REC. BY (PRINT) JULIE NG
 WORKORDER: LPH 0890

DATE REC'D AT LAB: 8/24/06
 TIME REC'D AT LAB: 1825
 DATE LOGGED IN: 8-25-06

For Regulatory Purposes?
 DRINKING WATER YES / NO YES NO
 WASTE WATER YES / NO YES NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent Intact / Broken*									TWICE 8/24/06 SEC. COC
2. Chain-of-Custody Present / Absent*									
3. Traffic Reports or Packing List: Present / Absent									
4. Airbill: Airbill / Sticker Present / Absent									
5. Airbill #:									
6. Sample Labels: Present / Absent									
7. Sample IDs: Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No*									
14. Read Temp: <u>2.0°C</u> Corrected Temp: <u>2.2°C</u> Is corrected temp 4 +/- 2°C? <input checked="" type="checkbox"/> Yes / No** <small>(Acceptance range for samples requiring thermal pres.)</small>									

**Exception (if any): METALS / DFF ON ICE or Problem COC

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

WELL GAUGING DATA

Project # 060824-WC-1 Date 8-24-06 Client URS @ 374

Site ARCO # 374, Oakland (6407 Telegraph Ave.)

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0840	4	odor				7.75	26.80	↓	
MW-2	0827	4					8.00	26.31		
MW-3	0820	4					7.00	26.75		
MW-4	0833	4	odor				8.26	26.98		
MW-5	0904	4					7.95	23.02		
MW-6	0936	4					5.18	14.63		

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 060824-WC-1	Station # 374
Sampler: WL/SR	Date: 8-24-06
Well I.D.: MW-1	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: 26.80	Depth to Water: 7.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVS</u> Grade.	D.O. Meter (if req'd): <u>YS</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer ~~Disposable Bailer~~

Positive Air Displacement Extraction Port

~~Electric Submersible~~

Extraction Pump Other: _____

Other: _____

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

12.3	x	3	=	36.9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
1125	67.0	7.2	1013	12.3	odor
1127	67.2	6.9	944	24.6	
1130	65.7	6.9	951	36.9	

Did well dewater? Yes No Gallons actually evacuated: 36.9

Sampling Time: 1135 Sampling Date: 8-24-06

Sample I.D.: MW-1 Laboratory: Pace Section Other TA

Analyzed for: GR TEX MTBE DRO Oxy 1,2-CA ED EtOH Other: _____

D.O. (if req'd): na cap Pre-purge: _____ mg/L Post-purge: .65 mg/L

O.R.P. (if req'd): _____ Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 060824-WC-1	Station # 374
Sampler: WC/SR	Date: 8/24/06
Well I.D.: MW-2	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 26.71	Depth to Water: 8.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade.	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Positive Air Displacement Extraction Port
 Electric Submersible
 Extraction Pump Other: _____
 Other: _____

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>11.9</u>	x	<u>3</u>	=	<u>35.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1027	70.5	7.1	598	11.9	Clear
1029	72.7	6.9	604	23.8	
1031	70.9	6.8	592	35.7	

Did well dewater? Yes No Gallons actually evacuated: 35.7

Sampling Time: 1035 Sampling Date: 8-24-06

Sample I.D.: MW-2 Laboratory: Pace Sequoia Other TA

Analyzed for: DRO MTBE DRO 1,2-DCA Ethanol Other: _____

D.O. (if req'd): in cup Pre-purge: _____ mg/L Post-purge: 1.75-0.90 mg/L

O.R.P. (if req'd): _____ Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 060824-WC-1	Station # 374
Sampler: WC/FR	Date: 8-24-06
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 26.75	Depth to Water: 7.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade.	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible Extraction Pump
 Other: _____

Sampling Method: Bailer - 30
 Disposable Bailer
 Extraction Port
 Other: _____

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

12.8	x	3	=	38.4	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1002	66.8	6.7	654	12.8	clear
1005	67.2	6.5	688	25.6	
1068	67.0	6.4	802	38.4	

Did well dewater? Yes No Gallons actually evacuated: 38.4

Sampling Time: 1012 Sampling Date: 8-24-06

Sample I.D.: MW-3 Laboratory: Pace Sequoia Other TA

Analyzed for: BTEX MTBE DRO PCBs PCE TCE Other: _____

D.O. (if req'd): In nchp	Pre-purge:	mg/L	Post-purge:	1.15 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 060824-WC-1	Station # 374
Sampler: WCLSR	Date: 8-24-06
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 26.98	Depth to Water: 8.26
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade:	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer Disposable Bailer Positive Air Displacement ~~Electric Submersible~~ Extraction Pump

Other: _____

Sampling Method: Bailer Disposable Bailer Extraction Port

Other: _____

Top of Screen: 12.1 If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

12.1	x	3	=	36.3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1053	67.4	6.8	1064	12.1	odor
1055	66.9	6.8	1095	24.2	
1057	66.4	6.8	1074	36.3	

Did well dewater? Yes No Gallons actually evacuated: 36.3

Sampling Time: 1200 Sampling Date: 8-24-06

Sample I.D.: MW-4 Laboratory: Pace Sequoia Other: TA

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Mando Other: _____

D.O. (if req'd): in acup Pre-purge: _____ mg/L Post-purge: 1.00 mg/L

O.R.P. (if req'd): _____ Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 060824-WC-1	Station # 374
Sampler: WC/SR	Date: 8-24-06
Well I.D.: MW-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 23.02	Depth to Water: 7.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>FVS</u> Grade.	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

total

<u>9.8</u>	x	<u>3</u>	=	<u>29.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
0912	68.2	5.9	607	9.8	slight odor, non-fuel
0914	67.7	6.3	590	20.6	well dewatered at 21 gal.
0916				29.4	
0914	Well dewatered @ ~ 21 gallons				
0919	66.7	6.6	600		DTW = 17.70

Did well dewater? Yes No Gallons actually evacuated: 21

Sampling Time: 0920 Sampling Date: 8-24-06

Sample I.D.: MW-5 Laboratory: Pace Sequoia 7A Other _____

Analyzed for: TRO ETX MTBE DRO Oxy 1,2-DCA EDB Ethanol Other: _____

D.O. (if req'd): in a cup Pre-purge: _____ mg/L Post-purge: 2.60 mg/L

O.R.P. (if req'd): _____ Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 060824-WC-1	Station # 374
Sampler: WC/SR	Date: 8/24/06
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 14.63	Depth to Water: 5.18
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> KVC Grade.	D.O. Meter (if req'd): <input checked="" type="checkbox"/> YSI <input type="checkbox"/> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: _____

Sampling Method: Bailer Disposable Bailer Extraction Port Other: _____

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

Arctic $\frac{6.1}{1 \text{ Case Volume (Gals.)}} \times 3 \text{ Specified Volumes} = 18.3 \text{ Gals. Calculated Volume}$

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
0938	69.9	6.8	694	6.1	clear
0940	69.6	6.6	718	12.2	"
0940	well	dewatered		@ ~ 13 gallons	/ good tech
0949	68.3	6.8	761	—	DTW = 8.05

Did well dewater? Yes No Gallons actually evacuated: 13

Sampling Time: 09:50 Sampling Date: 8-24-06

Sample I.D.: MW-6 Laboratory: Pace Sequoia Other: TA

Analyzed for: GAO PCBs MTBE DRO OxyS 12-DCA Other: _____

D.O. (if req'd): IN NUP	Pre-purge:	mg/L	Post-purge:	3.4	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

BP GEM OIL COMPANY TYPE A BILL OF LADING

SOURCE RECORD **BILL OF LADING** FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY DILLARD ENVIRONMENTAL TO THE ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY IN LIVERMORE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the BP GEM Oil Company facility described below:

Station # 374

Station Address 6407 Telegraph Ave

Total Gallons Collected From Groundwater Monitoring Wells:
195

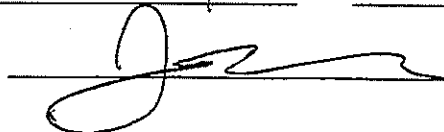
added equip. 5
rinse water

any other adjustments X

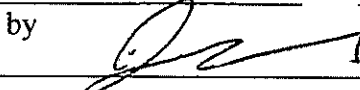
TOTAL GALS.
RECOVERED 200

loaded onto
BTS vehicle # 64

BTS event #	time	date
<u>060824-WC-1</u>	<u>1230</u>	<u>8/24/06</u>

signature 

REC'D AT	time	date
<u>Blaine Tech</u>	<u>1600</u>	<u>8/24/06</u>

unloaded by
signature 



WELLHEAD INSPECTION CHECKLIST BP / GEM

Date 8-24-06

Site Address 6407 Telegraph Ave

Job Number 060824-WC-1 Technician Will

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW- 1 ^{3A}	X	(on side walk)						
MW-2	X							
MW-3	2 of	2	hex bolts missing					
MW-4	X							
MW-5	✓							
MW-6	Y							

NOTES: _____

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION

Electronic Submittal Information

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Your EDF file has been successfully uploaded!

Confirmation Number: 1118752121
Date/Time of Submittal: 10/20/2006 11:20:46 AM
Facility Global ID: T0600100106
Facility Name: ARCO # 00374
Submittal Title: 3Q GW Monitoring
Submittal Type: GW Monitoring Report

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

ARCO # 00374 6407 TELEGRAPH AVE OAKLAND, CA 94609	Regional Board - Case #: 01-0114 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: 3884 ALAMEDA COUNTY LOP - (SP)
--	--

CONF #	TITLE	QUARTER
1118752121	3Q GW Monitoring	Q3 2006
SUBMITTED BY	SUBMIT DATE	STATUS
Broadbent & Associates, Inc.	10/20/2006	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	5
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

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

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

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

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

#374

Electronic Submittal Information

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UPLOADING A GEO_WELL FILE

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

Submittal Title:	3Q 06 GEO_WELL
Submittal Date/Time:	10/20/2006 11:17:10 AM
Confirmation Number:	8966840982

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Logged in as BROADBENT-C
(CONTRACTOR)

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