



Atlantic Richfield Company  
(a BP affiliated company)

P.O. Box 1257  
San Ramon, CA 94583  
Phone: (925) 275-3801  
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27July 2007

Re: Second Quarter 2007 Semi-Annual Ground-Water Monitoring Report  
Atlantic Richfield Company Station #2035  
1001 San Pablo Avenue  
Albany, California  
ACEH Case # RO0000100

“I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.”

Submitted by:

Paul Supple  
Environmental Business Manger

RECEIVED

2:50 pm, Jul 31, 2007

Alameda County  
Environmental Health



**Second Quarter 2007 Semi-Annual  
Ground-Water Monitoring Report**  
Atlantic Richfield Company Station #2035  
1001 San Pablo Avenue  
Albany, California

Prepared for

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

Prepared by



1324 Mangrove Avenue, Suite 212  
Chico, California 95926  
(530) 566-1400  
[www.broadbentinc.com](http://www.broadbentinc.com)

27 July 2007

Project No. 06-08-610

27 July 2007

Project No. 06-08-610

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

Attn.: Mr. Paul Supple

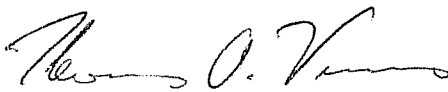
Re: Second Quarter 2007 Second Semi-Annual Ground-Water Monitoring Report, Atlantic Richfield Company (a BP affiliated company) Station #2035, 1001 San Pablo Avenue, Albany, California; ACEH Case #RO0000100

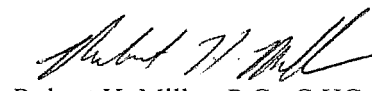
Dear Mr. Supple:

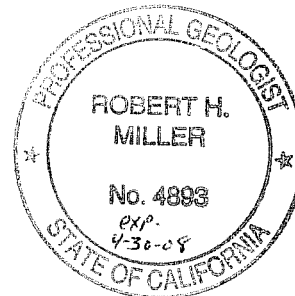
Attached is the *Second Quarter 2007 Second Semi-Annual Ground-Water Monitoring Report* for Atlantic Richfield Company Station #2035 (herein referred to as Station #2035) located at 1001 San Pablo Avenue, Albany, Alameda County, California. This report presents the results of ground-water monitoring conducted at Station #2035 during the Second Quarter of 2007.

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. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)  
Barbara & James A. LeStrange, 6 La Canada Court, Saint Helena, CA 94574  
Mr. Robert Cave, Bay Area Air Quality Management District - Permit Division, 939 Ellis Street, San Francisco, CA 94109  
Electronic copy uploaded to GeoTracker

## STATION # 2035 REMEDIATION SYSTEM STATUS REPORT

Facility: #2035	Address: 1001 San Pablo Avenue, Albany, 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.:	06-02-610
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH) ACEH Case # RO0000100
Permitting Agency/Facility Permits:	Bay Area Air Quality Management District (BAAQMD) BAAQMD Permit # 8694

### WORK PERFORMED THIS QUARTER (Second Quarter 2007):

1. Prepared and submitted the First Quarter 2007 Status Report.
2. Conducted ground-water monitoring/sampling for Second Quarter 2007.  
Work performed on 15 May 2007 by Stratus Environmental, Inc (Stratus).

### WORK PROPOSED FOR NEXT QUARTER (Third Quarter 2007):

1. Prepare and submit the Second Quarter 2007 Second Semi-Annual Ground-Water Monitoring Report (contained herein).
2. No field activities are scheduled to occur during Third Quarter 2007.
3. Prepare and submit the Third Quarter 2007 Status Report.

### SITE SUMMARY:

Current phase of project:	<b>Remediation/Natural Attenuation/Ground-Water Monitoring/Sampling</b>
Frequency of ground-water sampling:	<b>Semi-Annually (2Q and 4Q): Wells MW-1, MW-2, MW-3, MW-4, RW-1, S-5 Annually (4Q): Wells MW-5 and MW-6</b>
Frequency of ground-water monitoring:	<b>Semi-Annually (2Q and 4Q)</b>
Is free product (FP) present on-site:	<b>No</b>
Current remediation techniques:	<b>Air Sparge (AS) / Soil Vapor Extraction (SVE) (System shut down temporarily)</b>
Depth to ground water (below TOC):	<b>8.89 ft (S-5) to 12.55 ft (MW-6)</b>
General ground-water flow direction:	<b>West</b>
Approximate hydraulic gradient:	<b>0.02 ft/ft</b>

### DISCUSSION:

The Air Sparge / Soil Vapor Extraction (AS/SVE) remediation system has remained off-line since the Fourth Quarter of 2004, due to elevated water levels observed at the Site. Monthly depth to water monitoring had indicated that a majority of the well screens remained submerged. The monthly depth to water monitoring was discontinued after the February 2005 event. The semi-annual monitoring event for this quarter indicated that the screen in well RW-1 remained submerged. A remediation treatment modification letter dated 15 July 2004 was submitted to the ACEH. The letter proposed shutting down the AS/SVE remediation system permanently and treating ground water by natural attenuation. BP is currently awaiting a response from ACEH to this request letter.

Second quarter 2007 ground-water monitoring and sampling was conducted at ARCO Station #2035 on 15 May 2007 by Stratus. Water levels were gauged in the eight wells at the Site. No irregularities were noted during water level gauging. Depth to water measurements ranged from 8.89 ft at S-5 to 12.55 ft at MW-6. Resulting ground-water surface elevations ranged from 34.52 ft above mean sea level in up-gradient well MW-5 to 29.71 ft at down-gradient well MW-6. Water level elevations were between historic minimum and maximum ranges for each well, as summarized in Table 1. Co-monitored water level elevations from the nearby Shell-branded Service Station at 999 San Pablo Avenue were used to create the elevation contours. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the west at approximately 0.02 ft/ft, consistent with historical data (see Table 3). 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 monitoring field data sheets for Station #2035 are provided within Appendix A. Co-monitored data from the nearby Shell-branded Service Station at 999 San Pablo Avenue is provided in Appendix B.

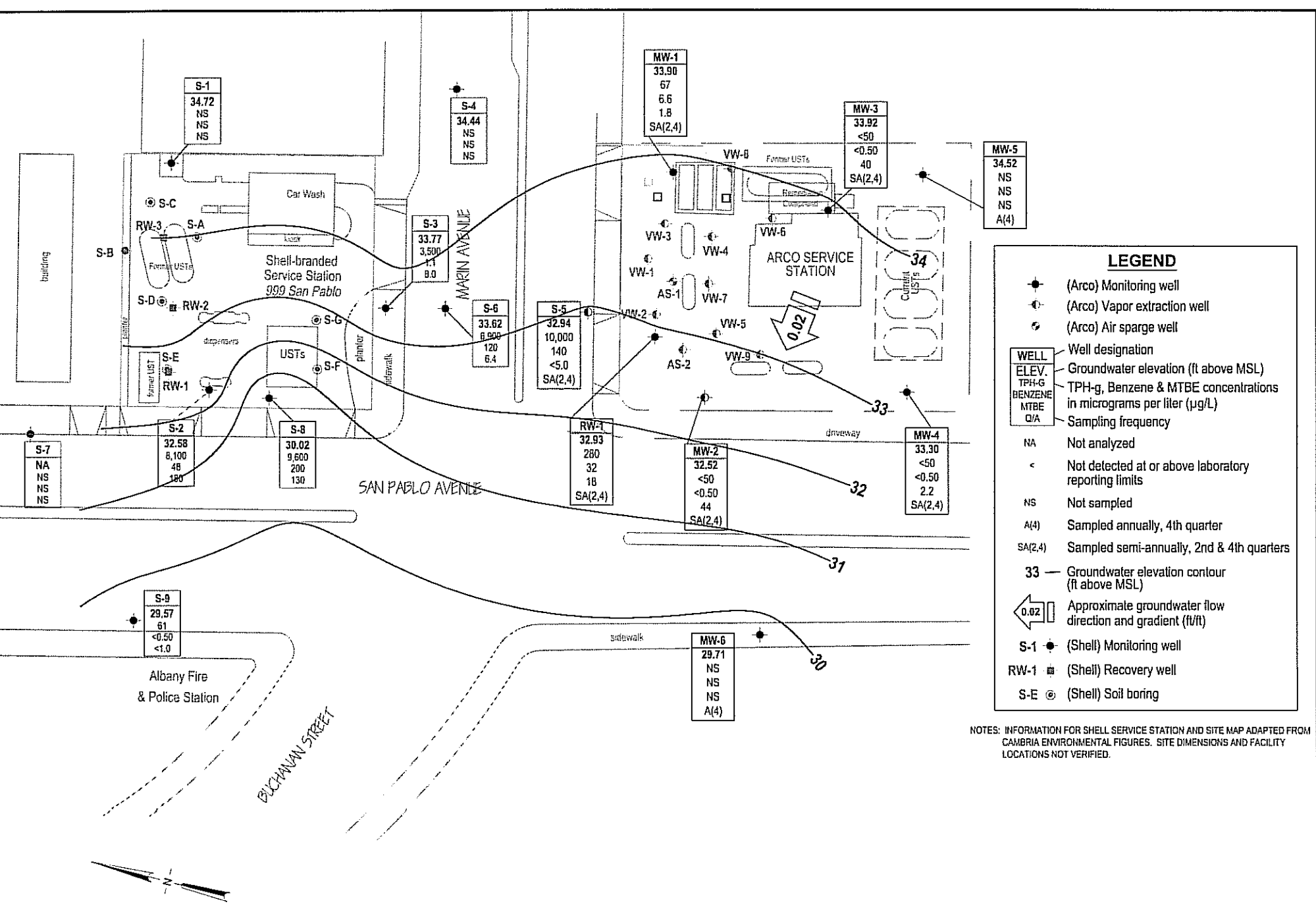
Consistent with the current ground-water sampling schedule, water samples were collected from wells MW-1 through MW-4, RW-1, and S-5. No irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to Test America Analytical Testing Corporation (Morgan Hill, California), 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 (TAME), tert-Butyl alcohol (TBA), Di-isopropyl ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Ethanol, Ethyl tert-butyl ether (ETBE), and Methyl tert-butyl ether (MTBE) by EPA Method 8260B. No significant irregularities were encountered during laboratory analysis of the samples. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

Gasoline range organics (GRO) were detected above laboratory reporting limits in three of the six wells sampled at concentrations up to 10,000 µg/L in well S-5. Benzene was detected above the laboratory reporting limit in three of the six wells sampled at concentrations up to 140 µg/L in well S-5. 1,2-DCA was detected above the laboratory reporting limit in one of the six wells sampled at a concentration of 1.2 µg/L in well MW-2. Ethylbenzene was detected above the laboratory reporting limit in one of the six wells sampled at a concentration of 340 µg/L in well S-5. MTBE was detected above the laboratory reporting limit in five of the six wells sampled at concentrations up to 44 µg/L in well MW-2. Total xylenes were detected above the laboratory reporting limit in one of the six wells sampled at a concentration of 310 µg/L in well S-5. 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 with the following exceptions: MTBE reached a historic maximum concentration of 44 µg/L in well MW-2, Benzene reached a historic minimum concentration of 140 µg/L in well S-5, and Xylenes reached a historic minimum concentration of 310 µg/L in well S-5. Recent and historic laboratory analytical results are summarized in Table 1, Table 2, and within Appendix C. 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. The co-monitored elevation and analytical data for the nearby Shell-branded service station at 999 San Pablo Avenue are provided in Appendix B. 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 C.

It should be noted that well S-5 concentrations appear more consistent with the data collected at the nearby Shell-branded service station at 999 San Pablo Avenue (other S- monitoring wells) than the data collected from Station #2035. For example, GRO and Benzene are elevated in well S-5, similar to concentrations in Shell wells S-2, S-6, S-7 and S-8. Furthermore, MTBE is not detected in well S-5, yet Station #2035 wells (MW-1, MW-2, MW-3, MW-4, and RW-1) contain MTBE.

**ATTACHMENTS:**

- Drawing 1. Ground-Water Elevation Contour and Analytical Summary Map, 15 May 2007, ARCO Service Station #2035, 1001 San Pablo Avenue, Albany, California
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, ARCO Service Station #2035, 1001 San Pablo Avenue, Albany, California
- Table 2. Summary of Fuel Additives Analytical Data, ARCO Service Station #2035, 1001 San Pablo Avenue, Albany, California
- Table 3. Historical Ground-Water Flow Direction and Gradient Data, ARCO Service Station #2035, 1001 San Pablo Avenue, Albany, California
- Appendix A. Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets and Laboratory Analytical Report with Chain-of-Custody Documentation)
- Appendix B. Joint Monitoring Data
- Appendix C. Historical Ground-Water Data Tables
- Appendix D. GeoTracker Upload Confirmation

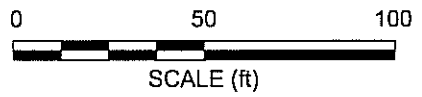


### LEGEND

- (Arco) Monitoring well
- ⊖ (Arco) Vapor extraction well
- ⊕ (Arco) Air sparge well

WELL	ELEV.	TPH-g	BENZENE	MTBE	Q/A
		Groundwater elevation (ft above MSL)			
		TPH-g, Benzene & MTBE concentrations in micrograms per liter (µg/L)			
		Sampling frequency			
NA		Not analyzed			
<		Not detected at or above laboratory reporting limits			
NS		Not sampled			
A(4)		Sampled annually, 4th quarter			
SA(2,4)		Sampled semi-annually, 2nd & 4th quarters			
33		Groundwater elevation contour (ft above MSL)			
0.02		Approximate groundwater flow direction and gradient (ft/ft)			
S-1		(Shell) Monitoring well			
RW-1		(Shell) Recovery well			
S-E		(Shell) Soil boring			

NOTES: INFORMATION FOR SHELL SERVICE STATION AND SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



**BROADBENT & ASSOCIATES, INC.**  
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
 1324 Mangrove Ave, Suite 212 Chico 95926  
 Project No.: 06-08-601 Date: 7/20/07

ARCO Service Station #2035  
 1001 San Pablo Avenue  
 Albany, California

Ground-Water Elevation Contour  
 and Analytical Summary Map  
 15 May 2007

Drawing  
**1**

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

Station #2035, 1001 San Pablo Ave., Albany, 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)						(mg/L) DO	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-1</b>															
4/11/2002	P	41.41	10.73	—	30.68	800	360	<5.0	<5.0	<5.0	<50	—	—	—	
11/27/2002	P	41.41	10.22	—	31.19	<50	<0.50	<0.50	<0.50	<0.50	1.7	1.1	--	--	
6/3/2003	—	41.41	9.14	—	32.27	1,700	430	<5.0	24	11	8.6	1.7	—	—	
11/13/2003	P	43.55	10.17	--	33.38	<50	<0.50	<0.50	<0.50	<0.50	0.95	2.3	SEQM	6.5	a
05/12/2004	P	43.55	9.28	—	34.27	120	7.2	<0.50	<0.50	<0.50	3.0	1.6	SEQM	6.0	
12/01/2004	P	43.55	9.16	—	34.39	<50	0.94	<0.50	<0.50	1.1	2.4	5.2	SEQM	6.6	
05/02/2005	P	43.55	8.58	—	34.97	1,300	390	<5.0	12	6.4	8.8	2.8	SEQM	6.5	
11/16/2005	P	43.55	9.50	--	34.05	<50	<0.50	<0.50	<0.50	0.54	0.92	1.7	SEQM	6.4	
5/31/2006	P	43.55	7.36	—	36.19	850	200	<2.5	5.4	<2.5	4.0	2.4	SEQM	6.5	
12/6/2006	P	43.55	9.91	--	33.64	<50	0.52	<0.50	<0.50	<0.50	0.72	4.50	TAMC	6.99	
5/15/2007	P	43.55	9.65	—	33.90	67	6.6	<0.50	<0.50	<0.50	1.8	2.43	TAMC	6.96	
<b>MW-2</b>															
4/11/2002	P	40.38	11.05	—	29.33	<50	<0.50	<0.50	<0.50	<0.50	24	—	—	—	
11/27/2002	P	40.38	10.51	—	29.87	<50	<0.50	<0.50	<0.50	<0.50	5.4	2.6	--	--	
6/3/2003	—	40.38	9.78	—	30.60	<50	<0.50	<0.50	<0.50	<0.50	23	1.7	—	—	
11/13/2003	P	42.52	10.69	--	31.83	<50	<0.50	<0.50	<0.50	<0.50	9.5	2.3	SEQM	6.5	a
05/12/2004	P	42.52	10.34	—	32.18	<250	<2.5	<2.5	<2.5	<2.5	27	2.2	SEQM	6.6	
12/01/2004	P	42.52	10.28	--	32.24	<50	<0.50	<0.50	<0.50	0.70	17	3.9	SEQM	6.6	
05/02/2005	P	42.52	9.50	—	33.02	<50	<0.50	<0.50	<0.50	<0.50	25	3.1	SEQM	6.6	
11/16/2005	P	42.52	10.50	--	32.02	<50	<0.50	<0.50	<0.50	0.50	7.6	2.8	SEQM	6.4	
5/31/2006	P	42.52	10.03	—	32.49	<50	<0.50	<0.50	<0.50	<0.50	24	2.0	SEQM	6.6	
12/6/2006	P	42.52	10.28	--	32.24	<50	<0.50	<0.50	<0.50	<0.50	1.6	3.72	TAMC	6.91	
5/15/2007	P	42.52	10.00	—	32.52	<50	<0.50	<0.50	<0.50	<0.50	44	2.90	TAMC	6.69	
<b>MW-3</b>															
4/11/2002	P	41.44	11.05	—	30.39	250	9.4	<0.50	<0.50	<0.50	120	—	—	—	
11/27/2002	P	41.44	10.49	--	30.95	<100	<1.0	<1.0	<1.0	2.5	56	2.2	—	—	
6/3/2003	--	41.44	9.44	—	32.00	130	<0.50	<0.50	<0.50	<0.50	47	4.1	—	—	
11/13/2003	P	43.62	10.68	--	32.94	53	<0.50	<0.50	<0.50	<0.50	36	3.8	SEQM	6.8	a
05/12/2004	P	43.62	9.95	—	33.67	65	<0.50	<0.50	<0.50	<0.50	39	4.2	SEQM	6.9	



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

Station #2035, 1001 San Pablo Ave., Albany, 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)						(mg/L) DO	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-3 Cont.</b>															
12/01/2004	P	43.62	10.32	--	33.30	140	<0.50	<0.50	<0.50	<0.50	37	4.3	SEQM	6.9	
05/02/2005	P	43.62	9.12	--	34.50	140	<0.50	<0.50	<0.50	<0.50	23	3.1	SEQM	6.7	
11/16/2005	P	43.62	10.58	--	33.04	<50	<0.50	<0.50	<0.50	<0.50	32	4.1	SEQM	6.5	
5/31/2006	P	43.62	9.41	--	34.21	<50	<0.50	<0.50	<0.50	<0.50	20	4.3	SEQM	6.8	
12/6/2006	P	43.62	10.25	--	33.37	<50	<0.50	<0.50	<0.50	<0.50	20	2.71	TAMC	7.00	
5/15/2007	P	43.62	9.70	--	33.92	<50	<0.50	<0.50	<0.50	<0.50	40	5.89	TAMC	7.07	
<b>MW-4</b>															
4/11/2002	NP	40.33	10.81	--	29.52	<50	<0.50	<0.50	<0.50	<0.50	11	--	--	--	
11/27/2002	NP	40.33	10.09	--	30.24	<50	<0.50	<0.50	<0.50	<0.50	6.5	1.8	--	--	
6/3/2003	--	40.33	8.62	--	31.71	<250	<2.5	<2.5	<2.5	<2.5	120	1.1	--	--	
11/13/2003	NP	42.48	9.98	--	32.50	<50	<0.50	<0.50	<0.50	<0.50	20	1.3	SEQM	6.2	a
05/12/2004	P	42.48	9.48	--	33.00	<250	<2.5	<2.5	<2.5	<2.5	79	2.9	SEQM	6.6	
12/01/2004	NP	42.48	9.60	--	32.88	<50	<0.50	<0.50	<0.50	<0.50	1.8	1.9	SEQM	6.7	
05/02/2005	NP	42.48	8.67	--	33.81	<50	<0.50	<0.50	<0.50	<0.50	11	2.8	SEQM	6.6	
11/16/2005	NP	42.48	10.00	--	32.48	<50	<0.50	<0.50	<0.50	<0.50	0.93	1.7	SEQM	6.3	
5/31/2006	NP	42.48	8.52	--	33.96	<50	<0.50	<0.50	<0.50	<0.50	2.4	1.0	SEQM	7.0	
12/6/2006	NP	42.48	9.90	--	32.58	<50	<0.50	<0.50	<0.50	<0.50	7.8	0.85	TAMC	7.10	
5/15/2007	NP	42.48	9.18	--	33.30	<50	<0.50	<0.50	<0.50	<0.50	2.2	1.37	TAMC	6.85	
<b>MW-5</b>															
4/11/2002	NP	41.84	10.63	--	31.21	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	
11/27/2002	NP	41.84	10.65	--	31.19	--	--	--	--	--	--	--	--	--	
6/3/2003	--	41.84	8.92	--	32.92	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	--	--	
11/13/2003	NP	44.03	10.58	--	33.45	<50	<0.50	<0.50	<0.50	<0.50	0.79	1.4	SEQM	5.7	a
05/12/2004	--	44.03	9.95	--	34.08	--	--	--	--	--	--	--	--	--	
12/01/2004	NP	44.03	10.05	--	33.98	<50	<0.50	<0.50	<0.50	<0.50	0.55	1.8	SEQM	6.3	
05/02/2005	--	44.03	8.75	--	35.28	--	--	--	--	--	--	--	--	--	
11/16/2005	NP	44.03	10.37	--	33.66	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	SEQM	6.2	
5/31/2006	--	44.03	9.07	--	34.96	--	--	--	--	--	--	--	--	--	
12/6/2006	NP	44.03	10.25	--	33.78	<50	<0.50	<0.50	<0.50	<0.50	0.99	1.24	TAMC	6.88	

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**  
**Station #2035, 1001 San Pablo Ave., Albany, 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)						(mg/L) DO	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-5 Cont.</b>															
5/15/2007	--	44.03	9.51	--	34.52	--	--	--	--	--	--	--	--	--	--
<b>MW-6</b>															
4/11/2002	NP	40.13	11.42	--	28.71	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	
11/27/2002	NP	40.13	13.11	--	27.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	--	--	
6/3/2003	--	40.13	12.48	--	27.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	--	--	
11/13/2003	NP	42.26	13.11	--	29.15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	SEQM	6.8	a
05/12/2004	--	42.26	12.68	--	29.58	--	--	--	--	--	--	--	--	--	
12/01/2004	NP	42.26	12.68	--	29.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	SEQM	7.3	
05/02/2005	--	42.26	12.25	--	30.01	--	--	--	--	--	--	--	--	--	
11/16/2005	NP	42.26	12.98	--	29.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	SEQM	6.7	
5/31/2006	--	42.26	12.55	--	29.91	--	--	--	--	--	--	--	--	--	
12/6/2006	NP	42.26	12.98	--	29.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.24	TAMC	6.86	
5/15/2007	--	42.26	12.55	--	29.71	--	--	--	--	--	--	--	--	--	
<b>RW-1</b>															
4/11/2002	P	40.33	9.20	--	31.13	15,000	750	2,000	380	2,000	1,500	--	--	--	
11/27/2002	P	40.33	10.31	--	30.02	<2,500	720	<25	<25	<25	<25	1.8	--	--	
6/3/2003	--	40.33	9.54	--	30.79	470	78	0.97	4.3	9	48	1.4	--	--	
11/13/2003	P	42.35	10.35	--	32.00	130	29	<0.50	<0.50	<0.50	44	1.3	SEQM	6.6	a
05/12/2004	P	42.35	9.80	--	32.55	<250	66	<2.5	<2.5	<2.5	<2.5	1.9	SEQM	6.9	
09/02/2004	--	42.35	10.42	--	31.93	--	--	--	--	--	--	--	--	--	
10/07/2004	--	42.35	10.36	--	31.99	--	--	--	--	--	--	--	--	--	
11/04/2004	--	42.35	9.93	--	32.42	--	--	--	--	--	--	--	--	--	
12/01/2004	P	42.35	10.02	--	32.33	<250	96	<2.5	<2.5	<2.5	16	1.8	SEQM	6.7	
05/02/2005	P	42.35	9.20	--	33.15	230	100	<1.0	<1.0	<1.0	50	2.5	SEQM	6.6	
11/16/2005	P	42.35	10.96	--	31.39	<100	28	<1.0	<1.0	<1.0	32	1.0	SEQM	6.5	
5/31/2006	P	42.35	9.34	--	33.01	320	32	<0.50	<0.50	<0.50	28	1.3	SEQM	6.8	
12/6/2006	P	42.35	10.10	--	32.25	50	27	<0.50	<0.50	<0.50	19	1.49	TAMC	7.54	
5/15/2007	P	42.35	9.42	--	32.93	280	32	<0.50	<0.50	<0.50	18	2.61	TAMC	7.10	
<b>S-5</b>															

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses  
Station #2035, 1001 San Pablo Ave., Albany, 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)						(mg/L) DO	Lab	pH	Comments
						GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
S-5 Cont.															
4/11/2002	P	40.33	10.17	—	30.16	30,000	390	1,400	410	7,400	<500	—	—	—	
11/27/2002	P	40.33	9.77	—	30.56	55,000	1,300	450	1,400	13,000	<50	4.3	--	--	
6/3/2003	—	40.33	9.03	—	31.30	44,000	680	260	1,100	9,900	<25	1.9	—	—	
6/3/2003	—	40.33	9.12	—	31.21	--	--	--	--	--	--	1.4	--	--	
11/13/2003	P	41.83	9.12	—	32.71	31,000	520	120	690	5,900	<50	1.4	SEQM	6.5	a
05/12/2004	P	41.83	9.95	—	31.88	28,000	760	79	910	5,000	<50	1.9	SEQM	6.6	
12/01/2004	P	41.83	9.61	—	32.22	26,000	1,500	64	1,400	4,000	<25	—	SEQM	6.5	b
05/02/2005	P	41.83	8.80	—	33.03	13,000	700	18	260	1,300	<5.0	1.8	SEQM	6.4	
11/16/2005	P	41.83	9.80	—	32.03	15,000	1,400	25	570	850	<5.0	1.1	SEQM	6.3	
5/31/2006	P	41.83	8.89	—	32.94	9,800	170	<5.0	490	390	<5.0	1.4	SEQM	6.6	
12/6/2006	P	41.83	9.65	—	32.18	16,000	1,100	<25	1,700	970	<25	1.23	TAMC	6.95	
5/15/2007	P	41.83	8.89	—	32.94	10,000	140	<5.0	340	310	<5.0	3.63	TAMC	7.10	

ABBREVIATIONS & SYMBOLS:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above laboratory reporting limit

ft bgs = Feet below ground surface

ft MSL = Feet above mean sea level

BTEX = Benzene, toluene, ethylbenzene and xylenes

DO = Dissolved oxygen

DTW = Depth to water in ft bgs

GRO = Gasoline range organics, range C4-C12

GWE = Groundwater elevation measured in ft MSL

mg/L = Milligrams per liter

MTBE = Methyl tert butyl ether

NP = Not purged before sampling

P = Purged before sampling

TOC = Top of casing measured in ft MSL

TPH-g = Total petroleum hydrocarbons as gasoline, analyzed using EPA Method 8015, Modified

µg/L = Micrograms per liter

SEQ/SEQM = Sequoia Analytical/Sequoia Morgan Hill Laboratories

FOOTNOTES:

a = Site resurveyed by URS on 10/15/03 to NAVD '88

b = Sheen in well

NOTES:

No sampling occurs at this site during the first and third quarters of each calendar year.

TPH-g analyzed using EPA Method 8015, Modified and BTEX and MTBE by EPA method 8260B.

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

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

Values for DO and pH were obtained through field measurements.

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

**Table 2. Summary of Fuel Additives Analytical Data**  
**Station #2035, 1001 San Pablo Ave., Albany, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-1</b>									
6/3/2003	<1000	<200	8.6	<5.0	<5.0	<5.0	<5.0	<5.0	
11/13/2003	<100	<20	0.95	<0.50	<0.50	<0.50	--	--	
05/12/2004	<100	<20	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	
12/01/2004	<100	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	
05/02/2005	<1,000	220	8.8	<5.0	<5.0	<5.0	<5.0	<5.0	
11/16/2005	<100	<20	0.92	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/31/2006	<1,500	<100	4.0	<2.5	<2.5	<2.5	<2.5	<2.5	a
12/6/2006	<300	<20	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	
5/15/2007	<300	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>MW-2</b>									
6/3/2003	<100	<20	23	<0.50	<0.50	<0.50	0.94	<0.50	
11/13/2003	<100	<20	9.5	<0.50	<0.50	<0.50	--	--	
05/12/2004	<500	<100	27	<2.5	<2.5	<2.5	<2.5	<2.5	
12/01/2004	<100	<20	17	<0.50	<0.50	<0.50	0.74	<0.50	
05/02/2005	<100	75	25	<0.50	<0.50	<0.50	<0.50	<0.50	
11/16/2005	<100	<20	7.6	<0.50	<0.50	<0.50	0.79	<0.50	a
5/31/2006	<300	<20	24	<0.50	<0.50	<0.50	0.66	<0.50	a
12/6/2006	<300	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/15/2007	<300	<20	44	<0.50	<0.50	<0.50	1.2	<0.50	
<b>MW-3</b>									
6/3/2003	<100	<20	47	<0.50	<0.50	<0.50	<0.50	<0.50	
11/13/2003	<100	<20	36	<0.50	<0.50	<0.50	--	--	
05/12/2004	<100	<20	39	<0.50	<0.50	<0.50	<0.50	<0.50	
12/01/2004	<100	<20	37	<0.50	<0.50	<0.50	<0.50	<0.50	
05/02/2005	<100	<20	23	<0.50	<0.50	<0.50	<0.50	<0.50	
11/16/2005	<100	<20	32	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/31/2006	<300	<20	20	<0.50	<0.50	<0.50	<0.50	<0.50	a
12/6/2006	<300	<20	20	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/15/2007	<300	<20	40	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>MW-4</b>									

**Table 2. Summary of Fuel Additives Analytical Data**  
**Station #2035, 1001 San Pablo Ave., Albany, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
<b>MW-4 Cont.</b>									
6/3/2003	<500	<100	120	<2.5	<2.5	<2.5	<2.5	<2.5	
11/13/2003	<100	<20	20	<0.50	<0.50	<0.50	--	--	
05/12/2004	<500	<100	79	<2.5	<2.5	<2.5	<2.5	<2.5	
12/01/2004	<100	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
05/02/2005	<100	75	11	<0.50	<0.50	<0.50	<0.50	<0.50	
11/16/2005	<100	<20	0.93	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/31/2006	<300	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	a
12/6/2006	<300	<20	7.8	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/15/2007	<300	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>MW-5</b>									
6/3/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/13/2003	<100	<20	0.79	<0.50	<0.50	<0.50	--	--	
12/01/2004	<100	<20	0.55	<0.50	<0.50	<0.50	<0.50	<0.50	
11/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
12/6/2006	<300	<20	0.99	<0.50	<0.50	<0.50	<0.50	<0.50	a
<b>MW-6</b>									
6/3/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/13/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
12/01/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
12/6/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
<b>RW-1</b>									
6/3/2003	<100	22	48	<0.50	<0.50	<0.50	<0.50	<0.50	
11/13/2003	<100	<20	44	<0.50	<0.50	<0.50	--	--	
05/12/2004	<500	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
12/01/2004	<500	<100	16	<2.5	<2.5	<2.5	<2.5	<2.5	
05/02/2005	<200	<40	50	<1.0	<1.0	<1.0	<1.0	<1.0	
11/16/2005	<200	<40	32	<1.0	<1.0	<1.0	<1.0	<1.0	a
5/31/2006	<300	<20	28	<0.50	<0.50	<0.50	<0.50	<0.50	a
12/6/2006	<300	<20	19	<0.50	<0.50	<0.50	<0.50	<0.50	a

**Table 2. Summary of Fuel Additives Analytical Data**  
**Station #2035, 1001 San Pablo Ave., Albany, CA**

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
RW-1 Cont.									
5/15/2007	<300	<20	18	<0.50	<0.50	<0.50	<0.50	<0.50	
S-5									
6/3/2003	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/13/2003	<10,000	<2,000	<50	<50	<50	<50	--	--	
05/12/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
12/01/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
05/02/2005	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
11/16/2005	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	a
5/31/2006	<3,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	a
12/6/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	a
5/15/2007	<3,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	



**ABBREVIATIONS & SYMBOLS:**

-- = 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

**FOOTNOTE:**

a = Calibration verification for ethanol was within method limits but outside contract limits.

**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 #2035, 1001 San Pablo Ave., Albany, CA**

<b>Date Sampled</b>	<b>Approximate Flow Direction</b>	<b>Approximate Hydraulic Gradient</b>
4/11/2002	Southwest	0.012
11/27/2002	West	0.021
6/3/2003	West	0.024
11/13/2003	West (offsite Northwest)	0.015
5/12/2004	West	0.020
12/1/2004	West	0.030
5/2/2005	West	0.02
11/16/2005	West	0.03
5/31/2006	West	0.04
12/6/2006	West	0.01
5/15/2007	West	0.02

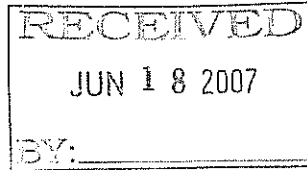
**NOTES:**

Site resurveyed by URS on 10/15/03 by datum NAVD '88.

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**

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



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

June 8, 2007

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

Re: Groundwater Sampling Data Package, BP Service Station No. 2035, located at  
1001 San Pablo Avenue, Albany, California (Quarterly Monitoring performed on  
May 15, 2007)

### **General Information**

*Data Submittal Prepared / Reviewed by:* Sandy Hayes / Jay Johnson

*Phone Number:* (530) 676-6000

*On-Site Supplier Representative:* Jerry Gonzales

*Date:* May 15, 2007

*Arrival:* 10:10                      *Departure:* 14:00

*Weather Conditions:* Cloudy

*Unusual Field Conditions:* None

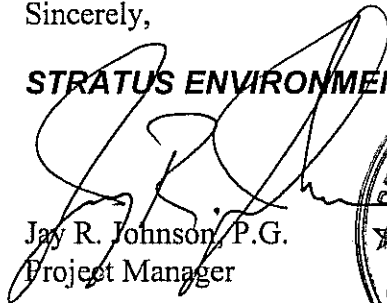
*Scope of Work Performed:* Quarterly monitoring and sampling

*Variations from Work Scope:* None noted

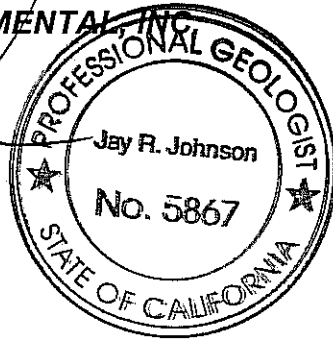
This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include bill of lading, field data sheets, chain of custody documentation, and certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for 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:**

- Bill of Lading
- Field Data Sheets
- Chain of Custody Documentation
- Certified Analytical Results

CC: Mr. Paul Supple, BP/ARCO

**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 PURGEWATER WHICH HAS BEEN RECOVERED FROM GROUNDWATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY BELSHIRE ENVIRONMENTAL TO SEAPORT ENVIRONMENTAL IN REDWOOD CITY, CALIFORNIA.**

The contractors performing this work are Stratus Environmental, Inc. [Stratus, 3330 Cameron Park Drive, Suite 550, Cameron Park, CA 95682, (530) 676-6004], and Doulos Environmental, Inc. [Doulos, PO Box 2559, Orangevale, CA 95662, (916) 990-0333]. Stratus is authorized by BP GEM OIL COMPANY to recover, collect, and apportion into loads the non-hazardous well purgewater that is drawn from wells at BP GEM Oil Company facilities and deliver that purgewater to BP GEM Oil Company facility 5786 located in West Sacramento, California. Doulos also performs these services under subcontract to Stratus. 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:

2035

Station #

Albany - 1001 San Pablo Avenue

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

200

Added Equipment

Rinse Water

5

Any Other

Adjustments

0

**TOTAL GALS.**

**RECOVERED**

205

loaded onto

Doulos vehicle #

Stratus Project #

time

date

1410

5/15/07

Signature

Jerry G

\*\*\*\*\*

RECEIVED AT

time

date

BP 5786

1600

5/15/07

Unloaded by

Signature

Jerry G

faxed 5/17/07



# BP ALAMEDA PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 2035 PURGED BY: Jo WELL I.D.: MW-1  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: J SAMPLE I.D.: MW-1  
 LOCATION: Albany - 1001 San Pablo Avenue QA SAMPLES: \_\_\_\_\_

DATE PURGED 5-15-07 START (2400hr) 12:04 END (2400hr) 12:10  
 DATE SAMPLED 5-15-07 SAMPLE TIME (2400hr) 12:30  
 SAMPLE TYPE: Groundwater x Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2" \_\_\_\_\_ 3" \_\_\_\_\_ 4" x 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 29.50 CASING VOLUME (gal) = 13.2  
 DEPTH TO WATER (feet) = 9.65 CALCULATED PURGE (gal) = 39.8  
 WATER COLUMN HEIGHT (feet) = 19.8 ACTUAL PURGE (gal) = 40.0

### FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>5-15-07</u>	<u>12:06</u>	<u>13.3</u>	<u>18.7</u>	<u>663</u>	<u>7.03</u>	<u>Clear</u>	_____
<u>1</u>	<u>12:09</u>	<u>26.7</u>	<u>18.8</u>	<u>658</u>	<u>6.97</u>	<u>1</u>	_____
<u>1</u>	<u>12:10</u>	<u>40.0</u>	<u>19.3</u>	<u>683</u>	<u>6.96</u>	<u>1</u>	_____

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 12.94 SAMPLE TURBIDITY: Clear  
 80% RECHARGE: Y YES   NO ANALYSES: See work order  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 3 Van-Hee

#### PURGING EQUIPMENT

Bladder Pump                       Bailer (Teflon)  
 Centrifugal Pump                       Bailer (PVC)  
 Submersible Pump                       Bailer (Stainless Steel)  
 Peristaltic Pump                       Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 25

#### SAMPLING EQUIPMENT

Bladder Pump                       Bailer (Teflon)  
 Centrifugal Pump                       Bailer (   PVC or Y disposable)  
 Submersible Pump                       Bailer (Stainless Steel)  
 Peristaltic Pump                       Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: Good LOCK#: MW-1  
 REMARKS: DD 2.43

SIGNATURE: [Signature] Page    of

# BP ALAMEDA PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 2035 PURGED BY: JG WELL I.D.: MW-2  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: JG SAMPLE I.D.: MW2  
 LOCATION: Albany - 1001 San Pablo Avenue QA SAMPLES: \_\_\_\_\_

DATE PURGED 5-15-07 START (2400hr) 13:10 END (2400hr) 13:20  
 DATE SAMPLED 5-15-07 SAMPLE TIME (2400hr) 13:25  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2" \_\_\_\_\_ 3" \_\_\_\_\_ 4"  5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) \_\_\_\_\_

DEPTH TO BOTTOM (feet) = 28.60 CASING VOLUME (gal) = 17.4  
 DEPTH TO WATER (feet) = 10.00 CALCULATED PURGE (gal) = 37.3  
 WATER COLUMN HEIGHT (feet) = 18.60 ACTUAL PURGE (gal) = 380

### FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees E)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>5-15-07</u>	<u>13:13</u>	<u>12.5</u>	<u>19.7</u>	<u>662</u>	<u>7.05</u>	<u>clear</u>	_____
<u>/</u>	<u>13:16</u>	<u>25.0</u>	<u>19.6</u>	<u>672</u>	<u>6.98</u>	<u>/</u>	_____
<u>/</u>	<u>13:20</u>	<u>28.0</u>	<u>19.6</u>	<u>672</u>	<u>6.69</u>	<u>/</u>	_____

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 17.41 SAMPLE TURBIDITY: clear  
 80% RECHARGE:  YES  NO ANALYSES: see work order  
 ODOR: No SAMPLE VESSEL / PRESERVATIVE: 3 Vol-HCC

#### PURGING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (PVC)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 25

#### SAMPLING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer ( \_\_\_\_\_ PVC or  disposable)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: good LOCK#: Master  
 REMARKS: DO 290

SIGNATURE: [Signature] Page \_\_\_\_\_ of \_\_\_\_\_



# BP ALAMEDA PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 2035 PURGED BY: JG WELL I.D.: MW 3  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: [Signature] SAMPLE I.D.: MW.3  
 LOCATION: Albany - 1001 San Pablo Avenue QA SAMPLES: \_\_\_\_\_

DATE PURGED 5/15/07 START (2400hr) 12:35 END (2400hr) 12:44  
 DATE SAMPLED 5/15/07 SAMPLE TIME (2400hr) 13:00  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2" \_\_\_\_\_ 3" \_\_\_\_\_ 4"  5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) \_\_\_\_\_

DEPTH TO BOTTOM (feet) = 32.50 CASING VOLUME (gal) = 15.2  
 DEPTH TO WATER (feet) = 9.90 CALCULATED PURGE (gal) = 45.8  
 WATER COLUMN HEIGHT (feet) = 22.8 ACTUAL PURGE (gal) = 46

### FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>5-15-07</u>	<u>12:38</u>	<u>15.3</u>	<u>19.9</u>	<u>591</u>	<u>7.00</u>	<u>cloud</u>	_____
<u>/</u>	<u>12:41</u>	<u>21.0</u>	<u>20.3</u>	<u>568</u>	<u>7.02</u>	<u>/</u>	_____
<u>/</u>	<u>12:44</u>	<u>46</u>	<u>21.2</u>	<u>580</u>	<u>7.09</u>	<u>/</u>	_____

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 12.49 SAMPLE TURBIDITY: cloud  
 80% RECHARGE:  YES  NO ANALYSES: see work order  
 ODOR: NO SAMPLE VESSEL / PRESERVATIVE: 3 Vac-HCC

### PURGING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (PVC)  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 27

### SAMPLING EQUIPMENT

Bladder Pump  Bailer (Teflon)  
 Centrifugal Pump  Bailer (  PVC or  disposable )  
 Submersible Pump  Bailer (Stainless Steel)  
 Peristaltic Pump  Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: good LOCK#: Matt  
 REMARKS: D.O 5.89

SIGNATURE: [Signature]

# BP ALAMEDA PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 2035 PURGED BY: [Signature] WELL I.D.: NW. 4  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: [Signature] SAMPLE I.D.: NW. 4  
 LOCATION: Albany - 1001 San Pablo Avenue QA SAMPLES: \_\_\_\_\_

DATE PURGED 5-15-07 START (2400hr) 13:34 END (2400hr) 13:35  
 DATE SAMPLED 5-15-07 SAMPLE TIME (2400hr) 13:35  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2" \_\_\_\_\_ 3" \_\_\_\_\_ 4"  5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) \_\_\_\_\_

DEPTH TO BOTTOM (feet) = 24.95 CASING VOLUME (gal) = NP  
 DEPTH TO WATER (feet) = 9.18 CALCULATED PURGE (gal) = \_\_\_\_\_  
 WATER COLUMN HEIGHT (feet) = 15.7 ACTUAL PURGE (gal) = \_\_\_\_\_

FIELD MEASUREMENTS							
DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>5-15-07</u>	<u>13:35</u>	_____	_____	<u>365.8</u>	<u>6.85</u>	<u>clear</u>	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

SAMPLE DEPTH TO WATER: 9.18 SAMPLE INFORMATION SAMPLE TURBIDITY: clear

80% RECHARGE:  YES  NO ANALYSES: \_\_\_\_\_  
 ODOR: no SAMPLE VESSEL / PRESERVATIVE: \_\_\_\_\_

**PURGING EQUIPMENT**

Bladder Pump       Bailer (Teflon)  
 Centrifugal Pump       Bailer (PVC)  
 Submersible Pump       Bailer (Stainless Steel)  
 Peristaltic Pump       Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: NA

**SAMPLING EQUIPMENT**

Bladder Pump       Bailer (Teflon)  
 Centrifugal Pump       Bailer ( \_\_\_\_\_ PVC or  disposable)  
 Submersible Pump       Bailer (Stainless Steel)  
 Peristaltic Pump       Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: good LOCK#: Master  
 REMARKS: DP 1.37

SIGNATURE: [Signature] Page \_\_\_\_\_ of \_\_\_\_\_

# BP ALAMEDA PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 2035 PURGED BY: S-15-07 WELL I.D.: S-5  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: S-15-07 SAMPLE I.D.: S-5  
 LOCATION: Albany - 1001 San Pablo Avenue QA SAMPLES: \_\_\_\_\_

DATE PURGED S-15-07 START (2400hr) 11:15 END (2400hr) 11:18  
 DATE SAMPLED S-15-07 SAMPLE TIME (2400hr) 11:25  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 15.50 CASING VOLUME (gal) = 1.1  
 DEPTH TO WATER (feet) = 8.87 CALCULATED PURGE (gal) = 3.3  
 WATER COLUMN HEIGHT (feet) = 6.6 ACTUAL PURGE (gal) = 4.0

### FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>S-15-07</u>	<u>11:16</u>	<u>1.3</u>	<u>20.1</u>	<u>476.7</u>	<u>7.80</u>	<u>Clear</u>	_____
<u>1</u>	<u>11:17</u>	<u>2.6</u>	<u>20.0</u>	<u>48.63</u>	<u>7.4</u>	<u>Clear</u>	_____
<u>1</u>	<u>11:18</u>	<u>4.0</u>	<u>19.9</u>	<u>491.2</u>	<u>7.10</u>	<u>1</u>	_____

SAMPLE DEPTH TO WATER: 9.91 SAMPLE INFORMATION SAMPLE TURBIDITY: Clear

80% RECHARGE:  YES  NO ANALYSES: SEE WORK ORDER  
 ODOR: Yes SAMPLE VESSEL / PRESERVATIVE: 3 VOA-HCL

#### PURGING EQUIPMENT

Bladder Pump \_\_\_\_\_ Bailer (Teflon) \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: 14

#### SAMPLING EQUIPMENT

Bladder Pump \_\_\_\_\_ Bailer (Teflon) \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_ Bailer (  PVC or  disposable )  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: GOOD LOCK#: AA  
 REMARKS: DO 363

SIGNATURE: [Signature] Page \_\_\_\_\_ of \_\_\_\_\_

# BP ALAMEDA PORTFOLIO

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 2035 PURGED BY: JS WELL I.D.: RW-1  
 CLIENT NAME: \_\_\_\_\_ SAMPLED BY: S SAMPLE I.D.: RW-1  
 LOCATION: Albany - 1001 San Pablo Avenue QA SAMPLES: \_\_\_\_\_

DATE PURGED 5-15-07 START (2400hr) 11:30 END (2400hr) 11:42  
 DATE SAMPLED 5-15-07 SAMPLE TIME (2400hr) 11:55  
 SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2" \_\_\_\_\_ 3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6"  8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 25.30 CASING VOLUME (gal) = 23.9  
 DEPTH TO WATER (feet) = 9.42 CALCULATED PURGE (gal) = 71.1  
 WATER COLUMN HEIGHT (feet) = 15.8 ACTUAL PURGE (gal) = 71.5

### FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>5-15-07</u>	<u>11:39</u>	<u>24</u>	<u>18.8</u>	<u>796</u>	<u>7.06</u>	<u>clear</u>	_____
<u>1</u>	<u>11:39</u>	<u>48</u>	<u>18.0</u>	<u>768</u>	<u>7.12</u>	<u>1</u>	_____
<u>1</u>	<u>11:42</u>	<u>71.5</u>	<u>19.1</u>	<u>730</u>	<u>7.10</u>	<u>1</u>	_____

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 10.18 SAMPLE TURBIDITY: clear  
 80% RECHARGE:  YES  NO ANALYSES: See work order  
 ODOR: Yes SAMPLE VESSEL / PRESERVATIVE: 3 Vol HCL

### PURGING EQUIPMENT

Bladder Pump  
 Centrifugal Pump  
 Submersible Pump  
 Peristaltic Pump  
 Other: \_\_\_\_\_  
 Pump Depth: 23

### SAMPLING EQUIPMENT

Bladder Pump  
 Centrifugal Pump  
 Submersible Pump  
 Peristaltic Pump  
 Other: \_\_\_\_\_

Bailer (Teflon)  
 Bailer (PVC)  
 Bailer (Stainless Steel)  
 Dedicated \_\_\_\_\_

Bailer (Teflon)  
 Bailer (  PVC or  disposable)  
 Bailer (Stainless Steel)  
 Dedicated \_\_\_\_\_

WELL INTEGRITY: Good LOCK#: 109  
 REMARKS: DO 2.61

SIGNATURE: [Signature]





# Chain of Custody Record

Project Name: Arco 2035  
 BP BU/AR Region/Enfos Segment: BP>Americas>West>Retail>Alameda>2035  
 State or Lead Regulatory Agency: \_\_\_\_\_  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: <u>10:10</u>	Temp: <u>60</u>
Off-site Time: <u>19:00</u>	Temp: <u>70</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events:	
Wind Speed: <u>5</u>	Direction: <u>N</u>

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2035</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1001 San Pablo Ave., Albany</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long:	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T060010081</u>	Consultant/Contractor Project No.:
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G0C26</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04 - Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03 - Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01 - Contractor Labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis				Sample Point Lat/Long and Comments Oxy* = MfBE, TAME, ETBE, DIPE, TBA
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRO/BTEX/OXY*	EDB	1,2 DCA	Ethanol by 8260	
1	MW-1	1230	5-15-07	X			3			X		X	X	X	X			
2	MW-2	1325		X			3			X		X	X	X	X			
3	MW-3	1300		X			3			X		X	X	X	X			
4	MW-4	1335		X			6			X		X	X	X	X			
5	RW-1	1155		X			3			X		X	X	X	X			
6	S-5	11:25		X			3			X		X	X	X	X			
7	TB - 2035	6:00		X			2			X		X	X	X	X	HOLD		
8																		
9																		
10																		

Sampler's Name: <u>Jerry Co. Cole</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Doulo's ENV</u>		<u>5/16/07</u>	<u>1045</u>		<u>5/16/07</u>	<u>1045</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

Custody Seals In Place: Yes / No	Temp Blank: Yes / No	Cooler Temp on Receipt: °F/C	Trip Blank: Yes / No	MS/MSD Sample Submitted: Yes / No
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1 June, 2007

Jay Johnson  
Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park, CA 95682

RE: ARCO #2035, Albany, CA  
Work Order: MQE0690

Enclosed are the results of analyses for samples received by the laboratory on 05/16/07 20:55. 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.

Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #2035, Albany, CA  
Project Number: G0C26-0013  
Project Manager: Jay Johnson

MQE0690  
Reported:  
06/01/07 16:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MQE0690-01	Water	05/15/07 12:30	05/16/07 20:55
MW-2	MQE0690-02	Water	05/15/07 13:25	05/16/07 20:55
MW-3	MQE0690-03	Water	05/15/07 13:00	05/16/07 20:55
MW-4	MQE0690-04	Water	05/15/07 13:35	05/16/07 20:55
RW-1	MQE0690-05	Water	05/15/07 11:55	05/16/07 20:55
S-5	MQE0690-06	Water	05/15/07 11:25	05/16/07 20:55
TB-2035	MQE0690-07	Water	05/15/07 06:00	05/16/07 20:55

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 no custody seals.



Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #2035, Albany, CA  
Project Number: G0C26-0013  
Project Manager: Jay Johnson

MQE0690  
Reported:  
06/01/07 16:23

**Total Purgeable Hydrocarbons by GC/MS (CA LUFT)**

**TestAmerica - Morgan Hill, CA**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
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**MW-1 (MQE0690-01) Water** Sampled: 05/15/07 12:30 Received: 05/16/07 20:55

Gasoline Range Organics (C4-C12)	67	50	ug/l	1	7E23004	05/23/07	05/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		110 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	60-135		"	"	"	"	

**MW-2 (MQE0690-02) Water** Sampled: 05/15/07 13:25 Received: 05/16/07 20:55

Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7E23004	05/23/07	05/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		111 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		102 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97 %	60-135		"	"	"	"	

**MW-3 (MQE0690-03) Water** Sampled: 05/15/07 13:00 Received: 05/16/07 20:55

Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7E23004	05/23/07	05/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		108 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		103 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99 %	60-135		"	"	"	"	

**MW-4 (MQE0690-04) Water** Sampled: 05/15/07 13:35 Received: 05/16/07 20:55

Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7E23004	05/23/07	05/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		105 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		102 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	60-135		"	"	"	"	

Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #2035, Albany, CA  
Project Number: G0C26-0013  
Project Manager: Jay Johnson

MQE0690  
Reported:  
06/01/07 16:23

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>RW-1 (MQE0690-05) Water</b> Sampled: 05/15/07 11:55 Received: 05/16/07 20:55									
<b>Gasoline Range Organics (C4-C12)</b>	<b>280</b>	<b>50</b>	ug/l	1	7E23004	05/23/07	05/23/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		108 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		106 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	60-135		"	"	"	"	
<b>S-5 (MQE0690-06) Water</b> Sampled: 05/15/07 11:25 Received: 05/16/07 20:55									
<b>Gasoline Range Organics (C4-C12)</b>	<b>10000</b>	<b>500</b>	ug/l	10	7E29005	05/29/07	05/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		113 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-135		"	"	"	"	

Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #2035, Albany, CA  
Project Number: G0C26-0013  
Project Manager: Jay Johnson

MQE0690  
Reported:  
06/01/07 16:23

**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 (MQE0690-01) Water** Sampled: 05/15/07 12:30 Received: 05/16/07 20:55

tert-Amyl methyl ether	ND	0.50	ug/l	1	7E23004	05/23/07	05/23/07	EPA 8260B	
<b>Benzene</b>	<b>6.6</b>	<b>0.50</b>	"	"	"	"	"	"	
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	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>1.8</b>	<b>0.50</b>	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

*Surrogate: Dibromofluoromethane*

110 % 75-120

*Surrogate: 1,2-Dichloroethane-d4*

110 % 60-125

*Surrogate: Toluene-d8*

100 % 80-120

*Surrogate: 4-Bromofluorobenzene*

102 % 60-135

**MW-2 (MQE0690-02) Water** Sampled: 05/15/07 13:25 Received: 05/16/07 20:55

tert-Amyl methyl ether	ND	0.50	ug/l	1	7E23004	05/23/07	05/23/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
<b>1,2-Dichloroethane</b>	<b>1.2</b>	<b>0.50</b>	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>44</b>	<b>0.50</b>	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

*Surrogate: Dibromofluoromethane*

107 % 75-120

*Surrogate: 1,2-Dichloroethane-d4*

111 % 60-125

*Surrogate: Toluene-d8*

102 % 80-120

*Surrogate: 4-Bromofluorobenzene*

97 % 60-135

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MQE0690  
Reported:  
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**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 (MQE0690-03) Water** Sampled: 05/15/07 13:00 Received: 05/16/07 20:55

tert-Amyl methyl ether	ND	0.50	ug/l	1	7E23004	05/23/07	05/23/07	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	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>40</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

*Surrogate: Dibromofluoromethane*

109 % 75-120

" " " "

*Surrogate: 1,2-Dichloroethane-d4*

108 % 60-125

" " " "

*Surrogate: Toluene-d8*

103 % 80-120

" " " "

*Surrogate: 4-Bromofluorobenzene*

99 % 60-135

" " " "

**MW-4 (MQE0690-04) Water** Sampled: 05/15/07 13:35 Received: 05/16/07 20:55

tert-Amyl methyl ether	ND	0.50	ug/l	1	7E23004	05/23/07	05/23/07	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	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>2.2</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

*Surrogate: Dibromofluoromethane*

107 % 75-120

" " " "

*Surrogate: 1,2-Dichloroethane-d4*

105 % 60-125

" " " "

*Surrogate: Toluene-d8*

102 % 80-120

" " " "

*Surrogate: 4-Bromofluorobenzene*

105 % 60-135

" " " "

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Project Manager: Jay Johnson

MQE0690  
Reported:  
06/01/07 16:23

**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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**RW-1 (MQE0690-05) Water** Sampled: 05/15/07 11:55 Received: 05/16/07 20:55

tert-Amyl methyl ether	ND	0.50	ug/l	1	7E23004	05/23/07	05/23/07	EPA 8260B	
<b>Benzene</b>	<b>32</b>	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	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>18</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		109 %	75-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	60-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		106 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	60-135	"	"	"	"	"	

**S-5 (MQE0690-06) Water** Sampled: 05/15/07 11:25 Received: 05/16/07 20:55

tert-Amyl methyl ether	ND	5.0	ug/l	10	7E29005	05/29/07	05/29/07	EPA 8260B	
<b>Benzene</b>	<b>140</b>	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	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>340</b>	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>310</b>	5.0	"	"	"	"	"	"	

<i>Surrogate: Dibromofluoromethane</i>		100 %	75-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	60-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %	60-135	"	"	"	"	"	

Stratus Environmental Inc. [Arco]  
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Project Manager: Jay Johnson

MQE0690  
Reported:  
06/01/07 16:23

**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 7E23004 - EPA 5030B P/T / LUFT GCMS**

**Blank (7E23004-BLK1)**

Prepared & Analyzed: 05/23/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.62		"	2.50		105	60-125			
Surrogate: Dibromofluoromethane	2.68		"	2.50		107	75-120			
Surrogate: Toluene-d8	2.56		"	2.50		102	80-120			
Surrogate: 4-Bromofluorobenzene	2.50		"	2.50		100	60-135			

**Laboratory Control Sample (7E23004-BS2)**

Prepared & Analyzed: 05/23/07

Gasoline Range Organics (C4-C12)	462	50	ug/l	500		92	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.81		"	2.50		112	60-125			
Surrogate: Dibromofluoromethane	2.67		"	2.50		107	75-120			
Surrogate: Toluene-d8	2.64		"	2.50		106	80-120			
Surrogate: 4-Bromofluorobenzene	2.73		"	2.50		109	60-135			

**Laboratory Control Sample Dup (7E23004-BSD2)**

Prepared & Analyzed: 05/23/07

Gasoline Range Organics (C4-C12)	455	50	ug/l	500		91	65-120	2	20	
Surrogate: 1,2-Dichloroethane-d4	2.82		"	2.50		113	60-125			
Surrogate: Dibromofluoromethane	2.63		"	2.50		105	75-120			
Surrogate: Toluene-d8	2.55		"	2.50		102	80-120			
Surrogate: 4-Bromofluorobenzene	2.72		"	2.50		109	60-135			

**Batch 7E29005 - EPA 5030B P/T / LUFT GCMS**

**Blank (7E29005-BLK1)**

Prepared & Analyzed: 05/29/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.36		"	2.50		94	60-125			
Surrogate: Dibromofluoromethane	2.42		"	2.50		97	75-120			
Surrogate: Toluene-d8	2.38		"	2.50		95	80-120			
Surrogate: 4-Bromofluorobenzene	2.24		"	2.50		90	60-135			

Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #2035, Albany, CA  
Project Number: G0C26-0013  
Project Manager: Jay Johnson

MQE0690  
Reported:  
06/01/07 16:23

**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 7E29005 - EPA 5030B P/T / LUFT GCMS**

**Laboratory Control Sample (7E29005-BS2)**

Prepared & Analyzed: 05/29/07

Gasoline Range Organics (C4-C12)	445	50	ug/l	500		89	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.57		"	2.50		103	60-125			
Surrogate: Dibromofluoromethane	2.39		"	2.50		96	75-120			
Surrogate: Toluene-d8	2.34		"	2.50		94	80-120			
Surrogate: 4-Bromofluorobenzene	2.44		"	2.50		98	60-135			

**Laboratory Control Sample Dup (7E29005-BSD2)**

Prepared & Analyzed: 05/29/07

Gasoline Range Organics (C4-C12)	456	50	ug/l	500		91	65-120	2	20	
Surrogate: 1,2-Dichloroethane-d4	2.67		"	2.50		107	60-125			
Surrogate: Dibromofluoromethane	2.40		"	2.50		96	75-120			
Surrogate: Toluene-d8	2.44		"	2.50		98	80-120			
Surrogate: 4-Bromofluorobenzene	2.57		"	2.50		103	60-135			

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06/01/07 16:23

**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 7E23004 - EPA 5030B P/T / EPA 8260B**

**Blank (7E23004-BLK1)**

Prepared & Analyzed: 05/23/07

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>	2.68		"	2.50		107	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.62		"	2.50		105	60-125			
<i>Surrogate: Toluene-d8</i>	2.56		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.50		"	2.50		100	60-135			

**Laboratory Control Sample (7E23004-BS1)**

Prepared & Analyzed: 05/23/07

tert-Amyl methyl ether	11.7	0.50	ug/l	10.0		117	65-135			
Benzene	11.6	0.50	"	10.0		116	75-120			
tert-Butyl alcohol	225	5.0	"	200		112	60-135			
Di-isopropyl ether	11.1	0.50	"	10.0		111	70-130			
1,2-Dibromoethane (EDB)	11.3	0.50	"	10.0		113	80-135			
1,2-Dichloroethane	11.7	0.50	"	10.0		117	70-125			
Ethanol	234	300	"	200		117	15-150			
Ethyl tert-butyl ether	11.4	0.50	"	10.0		114	65-130			
Ethylbenzene	11.6	0.50	"	10.0		116	75-120			
Methyl tert-butyl ether	11.6	0.50	"	10.0		116	50-140			
Toluene	11.9	0.50	"	10.0		119	75-120			
Xylenes (total)	34.6	0.50	"	30.0		115	75-120			
<i>Surrogate: Dibromofluoromethane</i>	2.67		"	2.50		107	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.61		"	2.50		104	60-125			
<i>Surrogate: Toluene-d8</i>	2.58		"	2.50		103	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.59		"	2.50		104	60-135			



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MQE0690  
Reported:  
06/01/07 16:23

**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 7E23004 - EPA 5030B P/T / EPA 8260B**

<b>Matrix Spike (7E23004-MS1)</b>		<b>Source: MQE0690-04</b>			<b>Prepared &amp; Analyzed: 05/23/07</b>					
tert-Amyl methyl ether	11.9	0.50	ug/l	10.0	ND	119	65-135			
Benzene	11.7	0.50	"	10.0	ND	117	75-120			
tert-Butyl alcohol	220	5.0	"	200	ND	110	60-135			
Di-isopropyl ether	11.3	0.50	"	10.0	ND	113	70-130			
1,2-Dibromoethane (EDB)	12.1	0.50	"	10.0	ND	121	80-135			
1,2-Dichloroethane	12.5	0.50	"	10.0	ND	125	70-125			
Ethanol	222	300	"	200	ND	111	15-150			
Ethyl tert-butyl ether	11.5	0.50	"	10.0	ND	115	65-130			
Ethylbenzene	11.8	0.50	"	10.0	ND	118	75-120			
Methyl tert-butyl ether	14.0	0.50	"	10.0	2.2	118	50-140			
Toluene	11.8	0.50	"	10.0	ND	118	75-120			
Xylenes (total)	35.3	0.50	"	30.0	ND	118	75-120			
<i>Surrogate: Dibromofluoromethane</i>	2.79		"	2.50		112	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.86		"	2.50		114	60-125			
<i>Surrogate: Toluene-d8</i>	2.55		"	2.50		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.66		"	2.50		106	60-135			

<b>Matrix Spike Dup (7E23004-MSD1)</b>		<b>Source: MQE0690-04</b>			<b>Prepared &amp; Analyzed: 05/23/07</b>					
tert-Amyl methyl ether	11.6	0.50	ug/l	10.0	ND	116	65-135	3	25	
Benzene	11.6	0.50	"	10.0	ND	116	75-120	0.9	20	
tert-Butyl alcohol	222	5.0	"	200	ND	111	60-135	0.9	25	
Di-isopropyl ether	11.1	0.50	"	10.0	ND	111	70-130	2	25	
1,2-Dibromoethane (EDB)	11.8	0.50	"	10.0	ND	118	80-135	3	30	
1,2-Dichloroethane	12.4	0.50	"	10.0	ND	124	70-125	0.8	25	
Ethanol	257	300	"	200	ND	128	15-150	15	25	
Ethyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	65-130	3	25	
Ethylbenzene	11.4	0.50	"	10.0	ND	114	75-120	3	20	
Methyl tert-butyl ether	13.6	0.50	"	10.0	2.2	114	50-140	3	25	
Toluene	11.5	0.50	"	10.0	ND	115	75-120	3	25	
Xylenes (total)	34.5	0.50	"	30.0	ND	115	75-120	2	20	
<i>Surrogate: Dibromofluoromethane</i>	2.65		"	2.50		106	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.71		"	2.50		108	60-125			
<i>Surrogate: Toluene-d8</i>	2.58		"	2.50		103	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.59		"	2.50		104	60-135			

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MQE0690  
Reported:  
06/01/07 16:23

**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 7E29005 - EPA 5030B P/T / EPA 8260B**

**Blank (7E29005-BLK1)**

Prepared & Analyzed: 05/29/07

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	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.36		"	2.50		94	60-125			
<i>Surrogate: Toluene-d8</i>	2.38		"	2.50		95	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.24		"	2.50		90	60-135			

**Laboratory Control Sample (7E29005-BS1)**

Prepared & Analyzed: 05/29/07

tert-Amyl methyl ether	9.97	0.50	ug/l	10.0		100	65-135			
Benzene	9.90	0.50	"	10.0		99	75-120			
tert-Butyl alcohol	201	20	"	200		100	60-135			
Di-isopropyl ether	9.31	0.50	"	10.0		93	70-130			
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0		105	80-135			
1,2-Dichloroethane	10.5	0.50	"	10.0		105	70-125			
Ethanol	224	300	"	200		112	15-150			
Ethyl tert-butyl ether	9.80	0.50	"	10.0		98	65-130			
Ethylbenzene	9.17	0.50	"	10.0		92	75-120			
Methyl tert-butyl ether	9.99	0.50	"	10.0		100	50-140			
Toluene	10.3	0.50	"	10.0		103	75-120			
Xylenes (total)	28.0	0.50	"	30.0		93	75-120			
<i>Surrogate: Dibromofluoromethane</i>	2.42		"	2.50		97	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.65		"	2.50		106	60-125			
<i>Surrogate: Toluene-d8</i>	2.46		"	2.50		98	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.17		"	2.50		87	60-135			

Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #2035, Albany, CA  
Project Number: G0C26-0013  
Project Manager: Jay Johnson

MQE0690  
Reported:  
06/01/07 16:23

**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 7E29005 - EPA 5030B P/T / EPA 8260B**

Matrix Spike (7E29005-MS1)	Source: MQE0714-02			Prepared & Analyzed: 05/29/07						
tert-Amyl methyl ether	9.77	0.50	ug/l	10.0	ND	98	65-135			
Benzene	12.9	0.50	"	10.0	3.5	94	75-120			
tert-Butyl alcohol	204	20	"	200	ND	102	60-135			
Di-isopropyl ether	9.37	0.50	"	10.0	ND	94	70-130			
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0	ND	106	80-135			
1,2-Dichloroethane	10.0	0.50	"	10.0	ND	100	70-125			
Ethanol	196	300	"	200	ND	98	15-150			
Ethyl tert-butyl ether	10.4	0.50	"	10.0	ND	104	65-130			
Ethylbenzene	9.68	0.50	"	10.0	ND	97	75-120			
Methyl tert-butyl ether	10.0	0.50	"	10.0	ND	100	50-140			
Toluene	10.8	0.50	"	10.0	0.32	105	75-120			
Xylenes (total)	29.2	0.50	"	30.0	ND	97	75-120			
<i>Surrogate: Dibromofluoromethane</i>	2.33		"	2.50		93	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.31		"	2.50		92	60-125			
<i>Surrogate: Toluene-d8</i>	2.50		"	2.50		100	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.19		"	2.50		88	60-135			

Matrix Spike Dup (7E29005-MSD1)	Source: MQE0714-02			Prepared & Analyzed: 05/29/07						
tert-Amyl methyl ether	10.5	0.50	ug/l	10.0	ND	105	65-135	7	25	
Benzene	12.9	0.50	"	10.0	3.5	94	75-120	0	20	
tert-Butyl alcohol	207	20	"	200	ND	104	60-135	1	25	
Di-isopropyl ether	9.77	0.50	"	10.0	ND	98	70-130	4	25	
1,2-Dibromoethane (EDB)	10.8	0.50	"	10.0	ND	108	80-135	2	30	
1,2-Dichloroethane	10.8	0.50	"	10.0	ND	108	70-125	8	25	
Ethanol	209	300	"	200	ND	104	15-150	6	25	
Ethyl tert-butyl ether	10.4	0.50	"	10.0	ND	104	65-130	0	25	
Ethylbenzene	9.48	0.50	"	10.0	ND	95	75-120	2	20	
Methyl tert-butyl ether	10.6	0.50	"	10.0	ND	106	50-140	6	25	
Toluene	10.5	0.50	"	10.0	0.32	102	75-120	3	25	
Xylenes (total)	29.2	0.50	"	30.0	ND	97	75-120	0	20	
<i>Surrogate: Dibromofluoromethane</i>	2.31		"	2.50		92	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.27		"	2.50		91	60-125			
<i>Surrogate: Toluene-d8</i>	2.47		"	2.50		99	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.42		"	2.50		97	60-135			

TestAmerica - Morgan Hill, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Stratus Environmental Inc. [Arco]  
3330 Cameron Park Dr., Suite 550  
Cameron Park CA, 95682

Project: ARCO #2035, Albany, CA  
Project Number: G0C26-0013  
Project Manager: Jay Johnson

MQE0690  
Reported:  
06/01/07 16:23

**Notes and Definitions**

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

## Lisa Race

---

**From:** Sandy Hayes [shayes@stratusinc.net]  
**Sent:** Thursday, May 24, 2007 4:26 PM  
**To:** Lisa Race  
**Cc:** Steve Carter  
**Subject:** RE: Problem COCs for ARCO#2140 -MQE0804 and ARCO#2035 - MQE0690  
**Attachments:** Revised COC's.pdf

Hi Lisa,

2140 should be SWC-1

2035 is GOC26-0013

Please see attached revised COC's.

Thank you!

**REVISED**

Sandy Hayes  
Stratus Environmental, Inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682  
shayes@stratusinc.net  
Phone: 530-676-6004  
Fax: 530.676.6005

-----Original Message-----

**From:** Lisa Race [mailto:lrace@testamericainc.com]  
**Sent:** Thursday, May 24, 2007 2:15 PM  
**To:** knagaraju@stratusinc.net; scarter@stratusinc.net; Sandy Hayes; Scott Bittinger; Sonia Nandi  
**Subject:** Problem COCs for ARCO#2140 -MQE0804 and ARCO#2035 - MQE0690

The sample ID for ARCO#2140 is difficult to read. Can you let me know what it should be? The COC for ARCO#2035 is missing the complete ENFOS number. Please correct and send the revision back.

Lisa Race  
Senior Project Manager, Morgan Hill, CA  
TestAmerica Analytical Testing Corporation  
Tel.: 408-776-9600  
Direct.: 408-782-8156  
Fax: 408-782-6308  
e-mail: [lrace@testamericainc.com](mailto:lrace@testamericainc.com)

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5/24/2007



bp  
A BP affiliated company

### Chain of Custody Record

Project Name: Arco 2035  
 BP BU/AR Region/Enfos Segment: BP>Americas>West>Retail>Alameda>2035  
 State or Lead Regulatory Agency: \_\_\_\_\_  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: <u>10:10</u>	Temp: <u>60</u>
Off-site Time: <u>14:00</u>	Temp: <u>70</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: _____	
Wind Speed: <u>5</u>	Direction: <u>N</u>

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2035</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1001 San Pablo Ave., Albany</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long: _____	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T060010081</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G0C26 - 0013</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04 - Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03 - Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01 - Contractor Labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis				Sample Point Lat/Long and Comments Oxy* = MtBE, TAME, ETBE, DIPE, TBA
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	CROB/TEX/OXY*	EDB	1,2-DCA	Ethanol by 8260	
1	MW-1	1230	5-15-07	X			01	3			X			X	X	X	X	<b>REVISED</b>
2	MW-2	1325		X			02	3			X			X	X	X	X	
3	MW-3	1300		X			03	3			X			X	X	X	X	
4	MW-4	1335		X			04	6			X			X	X	X	X	
5	RW-1	1155		X			05	3			X			X	X	X	X	
6	S-5	1125		X			06	3			X			X	X	X	X	
7	IB - 2035	6:00		X			07	2			X			X	X	X	X	
8																		
9																		
10																		

Sampler's Name: <u>Jerry Gozalez</u>	Relinquished By / Affiliation: _____	Date: <u>5/16/07</u>	Time: <u>1045</u>	Accepted By / Affiliation: <u>Den Smith Sr. Sec</u>	Date: <u>5/16/07</u>	Time: <u>1045</u>
Sampler's Company: <u>Doulo's ENV</u>	Signature: _____	Date: <u>5/16/07</u>	Time: <u>116</u>	Signature: _____	Date: <u>5/16/07</u>	Time: <u>1045</u>
Shipment Date: _____	Signature: _____	Date: <u>5/16/07</u>	Time: <u>2:55</u>	Signature: <u>JULIE NG.</u>	Date: <u>5/16</u>	Time: <u>2050</u>
Shipment Method: _____	Signature: _____	Date: _____	Time: _____	Signature: _____	Date: _____	Time: _____
Shipment Tracking No.: _____	Signature: _____	Date: _____	Time: _____	Signature: _____	Date: _____	Time: _____

Special Instructions: Please cc results to miller@broadbent.com

Custody Seals In Place: <u>Yes / No</u>	Temp Blank: <u>Yes / No</u>	Cooler Temp on Receipt: <u>2.6 °F(C)</u>	Trip Blank: <u>Yes / No</u>	MS/MSD Sample Submitted: <u>Yes / No</u>
---	-----------------------------	--	-----------------------------	--



# Chain of Custody Record

Project Name: Arco 2035  
 BP BU/AR Region/Enfos Segment: BP>Americas>West>Retail>Alameda>2035  
 State or Lead Regulatory Agency: \_\_\_\_\_  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: <u>10:10</u>	Temp: <u>60</u>
Off-site Time: <u>19:00</u>	Temp: <u>70</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: _____	
Wind Speed: <u>5</u>	Direction: <u>N</u>

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2035</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u> <u>Morgan Hill, CA 95937</u>	BP/AR Facility Address: <u>1001 San Pablo Ave., Albany</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u> <u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T060010081</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G0C26</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u> <u>San Ramon, CA</u>	Phase/WBS: <u>04 - Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
Tele/Fax: <u>925-275-3506</u>	Sub Phase/Task: <u>03 - Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
	Cost Element: <u>01 - Contractor Labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis				Sample Point Lat/Long and Comments Oxy* = MIBE, TAME, ETBE, DIPE, TBA	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRO/BTEX/OXY*	EDB	1,2 DCA	Ethanol by \$260		
1	MW-1	1230	5-15-07	X			MOE0690	3					X	X	X	X			
2	MW-2	1325		X			02	3					X	X	X	X			
3	MW-3	1300		X			03	3					X	X	X	X			
4	MW-4	1335		X			04	6					X	X	X	X			
5	RW-1	1155		X			05	3					X	X	X	X			
6	S-5	11:25		X			06	3					X	X	X	X			
7	TB - 2035	6:00		X			07	2					X	X	X	X			HOLD
8																			
9																			
10																			

Sampler's Name: <u>Jerry Gonzalez</u>	Relinquished By / Affiliation: _____	Date: <u>5/16/07</u>	Time: <u>1045</u>	Accepted By / Affiliation: <u>Paul Supple Sr. Sec</u>	Date: <u>5/16/07</u>	Time: <u>1045</u>
Sampler's Company: <u>DOUGLO'S ENV</u>	_____	<u>5/16/07</u>	<u>16</u>	<u>Jerry Tass</u>	<u>5/16/07</u>	<u>1600</u>
Shipment Date: _____	_____	<u>5/16/07</u>	<u>2:55</u>	<u>JULIE NG</u>	<u>5/16</u>	<u>2050</u>
Shipment Method: _____	_____					
Shipment Tracking No: _____						

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

Custody Seals In Place: Yes / (No) | Temp Blank: Yes / No | Cooler Temp on Receipt: 2.6 °F(C) | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

# TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO (2035)  
 REC. BY (PRINT) JULIE NG.  
 WORKORDER: MOE0690

DATE REC'D AT LAB: 5/16/07  
 TIME REC'D AT LAB: 2055  
 DATE LOGGED IN: 5/21/07

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*								JULIE NG. 5/17/07 SECUT
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: Corrected Temp: Is corrected temp 4 +/-2°C?	<u>2.6°C</u> ↓ Yes / No**								

(Acceptance range for samples requiring thermal pres.)

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

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



## Lisa Race

---

**From:** Sandy Hayes [shayes@stratusinc.net]  
**Sent:** Thursday, May 24, 2007 4:26 PM  
**To:** Lisa Race  
**Cc:** Steve Carter  
**Subject:** RE: Problem COCs for ARCO#2140 -MQE0804 and ARCO#2035 - MQE0690  
**Attachments:** Revised COC's.pdf

Hi Lisa,

2140 should be SWC-1

2035 is GOC26-0013

Please see attached revised COC's.

Thank you!

**REVISED**

Sandy Hayes  
Stratus Environmental, Inc.  
3330 Cameron Park Drive, Suite 550  
Cameron Park, CA 95682  
shayes@stratusinc.net  
Phone: 530-676-6004  
Fax: 530.676.6005

-----Original Message-----

**From:** Lisa Race [mailto:lrace@testamericainc.com]  
**Sent:** Thursday, May 24, 2007 2:15 PM  
**To:** knagaraju@stratusinc.net; scarter@stratusinc.net; Sandy Hayes; Scott Bittinger; Sonia Nandi  
**Subject:** Problem COCs for ARCO#2140 -MQE0804 and ARCO#2035 - MQE0690

The sample ID for ARCO#2140 is difficult to read. Can you let me know what it should be? The COC for ARCO#2035 is missing the complete ENFOS number. Please correct and send the revision back.

Lisa Race  
Senior Project Manager, Morgan Hill, CA  
TestAmerica Analytical Testing Corporation  
Tel.: 408-776-9600  
Direct.: 408-782-8156  
Fax: 408-782-6308  
e-mail: [lrace@testamericainc.com](mailto:lrace@testamericainc.com)

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5/24/2007



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### Chain of Custody Record

Project Name: Arco 2035  
 BP BU/AR Region/Enfos Segment: BP>Americas>West>Retail>Alameda>2035  
 State or Lead Regulatory Agency: \_\_\_\_\_  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: <u>10:10</u>	Temp: <u>60</u>
Off-site Time: <u>14:00</u>	Temp: <u>70</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: _____	
Wind Speed: <u>5</u>	Direction: <u>N</u>

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2035</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1001 San Pablo Ave., Albany</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long: _____	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T060010081</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G0C26 - 0013</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04 - Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03 - Analytical</u>	E-mail EDD To: <u>shaves@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01 - Contractor Labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis				Sample Point Lat/Long and Comments Oxy* = MtBE, TAME, ETBE, DIPE, TBA
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	CROB/TEX/OXY*	FDB	1,2-DCA	Ethanol by 8260	
1	MW-1	1230	5-15-07	X			01	3			X			X	X	X	X	<b>REVISED</b>
2	MW-2	1325		X			02	3			X			X	X	X	X	
3	MW-3	1300		X			03	3			X			X	X	X	X	
4	MW-4	1335		X			04	6			X			X	X	X	X	
5	RW-1	1155		X			05	3			X			X	X	X	X	
6	S-5	1125		X			06	3			X			X	X	X	X	
7	IB - 2035	6:00		X			07	2			X			X	X	X	X	
8																		
9																		
10																		

Sampler's Name: <u>Jerry Gozalez</u>	Relinquished By / Affiliation: _____	Date: <u>5/16/07</u>	Time: <u>1045</u>	Accepted By / Affiliation: <u>Den Smith Sr. Sec</u>	Date: <u>5/16/07</u>	Time: <u>1045</u>
Sampler's Company: <u>Doulo's ENV</u>	_____	Date: <u>5/16/07</u>	Time: <u>116</u>	_____	Date: <u>5/16/07</u>	Time: <u>1600</u>
Shipment Date: _____	_____	Date: <u>5/16/07</u>	Time: <u>2:55</u>	_____	Date: <u>5/16</u>	Time: <u>2050</u>
Shipment Method: _____	_____	_____				
Shipment Tracking No: _____	_____	_____				

Special Instructions: Please cc results to miller@broadbent.com

Custody Seals In Place: <u>Yes / No</u>	Temp Blank: <u>Yes / No</u>	Cooler Temp on Receipt: <u>2.6 °F(C)</u>	Trip Blank: <u>Yes / No</u>	MS/MSD Sample Submitted: <u>Yes / No</u>
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# Chain of Custody Record

Project Name: Arco 2035  
 BP BU/AR Region/Enfos Segment: BP>Americas>West>Retail>Alameda>2035  
 State or Lead Regulatory Agency: \_\_\_\_\_  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: <u>10:10</u>	Temp: <u>60</u>
Off-site Time: <u>19:00</u>	Temp: <u>70</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: _____	
Wind Speed: <u>5</u>	Direction: <u>N</u>

Lab Name: <u>TestAmerica</u>	BP/AR Facility No.: <u>2035</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Drive</u>	BP/AR Facility Address: <u>1001 San Pablo Ave., Albany</u>	Address: <u>3330 Cameron Park Drive, Suite 550</u>
<u>Morgan Hill, CA 95937</u>	Site Lat/Long: _____	<u>Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	California Global ID No.: <u>T060010081</u>	Consultant/Contractor Project No.: _____
Tele/Fax: <u>408-782-8156 408-782-6308 (fax)</u>	Enfos Project No.: <u>G0C26</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or OOC (circle one) <u>Provision</u>	Tele/Fax: <u>(530) 676-6000 / (530) 676-6005</u>
Address: <u>2010 Crow Canyon Place, Suite 150</u>	Phase/WBS: <u>04 - Monitoring</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
<u>San Ramon, CA</u>	Sub Phase/Task: <u>03 - Analytical</u>	E-mail EDD To: <u>shayes@stratusinc.net</u>
Tele/Fax: <u>925-275-3506</u>	Cost Element: <u>01 - Contractor Labor</u>	Invoice to: <u>Atlantic Richfield Co.</u>

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis				Sample Point Lat/Long and Comments Oxy* = MIBE, TAME, ETBE, DIPE, TBA	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRO/BTEX/OXY*	EDB	1,2 DCA	Ethanol by \$260		
1	MW-1	1230	5-15-07	X			MOE0690	3			X			X	X	X	X		
2	MW-2	1325		X			02	3			X			X	X	X	X		
3	MW-3	1300		X			03	3			X			X	X	X	X		
4	MW-4	1335		X			04	6			X			X	X	X	X		
5	RW-1	1155		X			05	3			X			X	X	X	X		
6	S-5	11:25		X			06	3			X			X	X	X	X		
7	TB - 2035	6:00		X			07	2			X			X	X	X	X		HOLD
8																			
9																			
10																			

Sampler's Name: <u>Jerry Gonzalez</u>	Relinquished By / Affiliation: _____	Date: <u>5/16/07</u>	Time: <u>1045</u>	Accepted By / Affiliation: <u>Paul Supple Sr. Sec</u>	Date: <u>5/16/07</u>	Time: <u>1045</u>
Sampler's Company: <u>DOUGLO'S ENV</u>	_____	<u>5/16/07</u>	<u>16</u>	<u>Jerry Tass</u>	<u>5/16/07</u>	<u>1600</u>
Shipment Date: _____	_____	<u>5/16/07</u>	<u>2:55</u>	<u>JULIE NG</u>	<u>5/16</u>	<u>2050</u>
Shipment Method: _____	_____					
Shipment Tracking No: _____	_____					

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

Custody Seals In Place: Yes / (No) | Temp Blank: Yes / No | Cooler Temp on Receipt: 2.6 °F(C) | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

# TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO (2035)  
 REC. BY (PRINT) JULIE NG.  
 WORKORDER: MGE0690

DATE REC'D AT LAB: 5/16/07  
 TIME REC'D AT LAB: 2055  
 DATE LOGGED IN: 5/21/07

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*								<div style="transform: rotate(-45deg); font-size: 2em; font-weight: bold;">                     JULIE NG. 5/17/07                      SECUT                 </div>
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: Corrected Temp: Is corrected temp 4 +/-2°C?	<u>2.6°C</u> ↓ Yes / No**								

(Acceptance range for samples requiring thermal pres.)

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

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

**APPENDIX B**

JOINT MONITORING DATA

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**BLAINE**  
TECH SERVICES INC.

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GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

June 14, 2007

Denis Brown  
Shell Oil Products US  
20945 South Wilmington Avenue  
Carson, CA 90810

Second Quarter 2007 Groundwater Monitoring at  
Shell-branded Service Station  
999 San Pablo Avenue  
Albany, CA

Monitoring performed on May 15, 2007

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Groundwater Monitoring Report **070515-EP-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Mike Ninokata  
Project Manager

MN/ks

attachments: Cumulative Table of WELL CONCENTRATIONS  
Certified Analytical Report  
Field Data Sheets

cc: Dennis Baertschi  
Conestoga-Rovers & Associates  
19449 Riverside Dr., Suite 230  
Sonoma, CA 95476

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-1	05/13/1991	1,500	20	2.6	86	74	NA	NA	NA	NA	NA	NA	42.73	8.24	34.49	NA	NA
S-1	08/23/1991	2,900	27	<2.5	75	18	NA	NA	NA	NA	NA	NA	42.73	8.37	34.36	NA	NA
S-1	11/07/1991	2,900	8	2.5	46	26	NA	NA	NA	NA	NA	NA	42.73	8.30	34.43	NA	NA
S-1	01/28/1992	2,000	11	<2.5	60	20	NA	NA	NA	NA	NA	NA	42.73	7.84	34.89	NA	NA
S-1	05/06/1992	1,200	5.5	<2.5	80	36	NA	NA	NA	NA	NA	NA	42.73	7.95	34.78	NA	NA
S-1	08/26/1992	2,000	9.4	<2.5	130	<2.5	NA	NA	NA	NA	NA	NA	42.73	8.24	34.49	NA	NA
S-1	10/28/1992	1,300	27	3.2	72	13	NA	NA	NA	NA	NA	NA	42.73	8.52	34.21	NA	NA
S-1	01/19/1993	1,500	13	3	29	31	NA	NA	NA	NA	NA	NA	42.73	6.54	36.19	NA	NA
S-1	04/29/1993	2,000	15	<2.5	82	<65	NA	NA	NA	NA	NA	NA	42.73	7.93	34.80	NA	NA
S-1	07/22/1993	620	1.1	4.2	3.5	13	NA	NA	NA	NA	NA	NA	42.73	8.09	34.64	NA	NA
S-1	10/21/1993	1,200	34	25	15	9.5	NA	NA	NA	NA	NA	NA	42.73	9.43	33.30	NA	NA
S-1	01/04/1994	860	<2.5	<2.5	5.7	5.3	NA	NA	NA	NA	NA	NA	42.73	8.25	34.48	NA	NA
S-1	04/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	8.02	34.71	NA	NA
S-1	07/25/1994	1,200	8.3	7.4	15	20	NA	NA	NA	NA	NA	NA	42.73	8.22	34.51	NA	NA
S-1	10/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	8.29	34.44	NA	NA
S-1	01/26/1995	1,000	12	0.6	12	420	NA	NA	NA	NA	NA	NA	42.73	6.88	35.85	NA	NA
S-1	04/21/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	7.65	35.08	NA	NA
S-1	07/28/1995	660	7.2	1	11	8.9	NA	NA	NA	NA	NA	NA	42.73	7.90	34.83	NA	4
S-1	10/31/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	7.72	35.01	NA	NA
S-1	01/10/1996	1,100	3.5	7	5.1	9.4	NA	NA	NA	NA	NA	NA	42.73	8.24	34.49	NA	7.4
S-1	04/25/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	7.74	34.99	NA	NA
S-1	07/23/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	42.73	7.92	34.81	NA	2.7
S-1	12/10/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	7.56	35.17	NA	0.6
S-1	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	42.73	7.95	34.78	NA	3
S-1	05/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	8.11	34.62	NA	0.5
S-1	08/22/1997	810	18	<2.0	5.1	4.4	18	NA	NA	NA	NA	NA	42.73	7.86	34.87	NA	3
S-1	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	8.35	34.38	NA	1.1
S-1	02/20/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	42.73	6.09	36.64	NA	2.9



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-1	05/18/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	7.69	35.04	NA	1.1
S-1	08/20/1998	390	6.7	<0.50	0.64	<0.50	14	NA	NA	NA	NA	NA	42.73	8.20	34.53	NA	1.9
S-1	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	8.23	34.50	NA	NA
S-1	02/16/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	42.73	7.47	35.26	NA	1.5
S-1	05/28/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	7.60	35.13	NA	1.3
S-1	08/24/1999	72.4	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	42.73	7.95	34.78	NA	1.4
S-1	11/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	7.87	34.86	NA	1.3
S-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	42.73	7.26	35.47	NA	1.4
S-1	05/09/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	8.13	34.60	NA	1.0
S-1	08/03/2000	209	6.42	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	42.73	8.12	34.61	NA	1.4
S-1	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	8.06	34.67	NA	1.0
S-1	02/14/2001	179	4.46	<0.500	<0.500	<0.500	8.72	NA	NA	NA	NA	NA	42.73	8.08	34.65	NA	1.1
S-1	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	8.05	34.68	NA	1.0
S-1	08/15/2001	270	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	42.73	8.40	34.33	NA	1.3
S-1	12/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	7.42	35.31	NA	0.4
S-1	02/06/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	42.73	7.60	35.13	NA	2.2
S-1	06/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.73	8.16	34.57	NA	0.8
S-1	07/25/2002	230	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	42.57	7.84	34.73	NA	0.9
S-1	11/27/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.57	8.01	34.56	NA	0.6
S-1	01/30/2003	310	<0.50	<0.50	3.6	1.6	NA	<5.0	NA	NA	NA	NA	42.57	7.56	35.01	NA	1.5
S-1	06/03/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.57	7.87	34.70	NA	1.6
S-1	08/08/2003	730	<0.50	<0.50	12	6.4	NA	<0.50	NA	NA	NA	NA	42.57	7.95	34.62	NA	1.3
S-1	11/13/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.57	7.90	34.67	NA	0.8
S-1	02/04/2004	220	<0.50	<0.50	1.8	1.1	NA	<0.50	NA	NA	NA	NA	42.57	7.37	35.20	NA	1.2
S-1	05/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.57	8.05	34.52	NA	1.1
S-1	08/23/2004	110 g	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	42.57	8.10	34.47	NA	0.6
S-1	12/01/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.57	7.84	34.73	NA	NA
S-1	02/07/2005	53 h	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	42.57	7.48	35.09	NA	0.49

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-1	05/02/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.57	8.05	34.52	NA	NA
S-1	08/04/2005	850	<0.50	<0.50	4.5	1.0	NA	<0.50	NA	NA	NA	NA	42.57	8.05	34.52	NA	0.01
S-1	11/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.57	8.19	34.38	NA	NA
S-1	03/02/2006	170	<0.50	<0.50	2.4	0.91	NA	<0.50	NA	NA	NA	NA	42.57	7.58	34.99	NA	0.32
S-1	05/31/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.57	8.03	34.54	NA	NA
S-1	08/29/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	42.57	7.99	34.58	NA	1.05
S-1	12/06/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.57	8.07	34.50	NA	0.4
S-1	01/30/2007	640	<0.50	<0.50	1.9	<1.0	NA	<0.50	NA	NA	NA	NA	42.57	8.32	34.25	NA	1.20
S-1	05/15/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.57	7.85	34.72	NA	0.16

S-2	05/13/1991	23,000	3,900	230	1,100	3,200	NA	NA	NA	NA	NA	NA	40.73	8.50	32.23	NA	NA
S-2	08/23/1991	23,000	4,400	260	1,900	2,400	NA	NA	NA	NA	NA	NA	40.73	8.80	31.93	NA	NA
S-2	11/07/1991	40,000	4,000	160	1,020	3,400	NA	NA	NA	NA	NA	NA	40.73	8.61	32.12	NA	NA
S-2	01/28/1992	22,000	1,600	70	420	1,700	NA	NA	NA	NA	NA	NA	40.73	7.80	32.93	NA	NA
S-2	05/06/1992	20,000	2,600	110	860	1,900	NA	NA	NA	NA	NA	NA	40.73	8.10	32.63	NA	NA
S-2	08/26/1992	42,000	5,000	160	1,100	3,500	NA	NA	NA	NA	NA	NA	40.73	8.37	32.36	NA	NA
S-2	10/28/1992	34,000	4,800	330	1,600	2,900	NA	NA	NA	NA	NA	NA	40.73	8.64	32.09	NA	NA
S-2	01/19/1993	20,000	2,300	370	660	1,300	NA	NA	NA	NA	NA	NA	40.73	5.82	34.91	NA	NA
S-2	04/29/1993	40,000	2,000	67	900	1,900	NA	NA	NA	NA	NA	NA	40.73	7.70	33.03	NA	NA
S-2	07/22/1993	22,000	3,000	120	1,000	1,600	NA	NA	NA	NA	NA	NA	40.73	8.38	32.35	NA	NA
S-2 (D)	07/22/1993	17,000	3,000	110	1,000	1,500	NA	NA	NA	NA	NA	NA	40.73	8.38	32.35	NA	NA
S-2	10/21/1993	14,000	2,800	74	870	1,100	NA	NA	NA	NA	NA	NA	40.73	8.58	32.15	NA	NA
S-2 (D)	10/21/1993	13,000	3,200	53	960	820	NA	NA	NA	NA	NA	NA	40.73	8.58	32.15	NA	NA
S-2	01/04/1994	21,000	2,100	67	990	770	NA	NA	NA	NA	NA	NA	40.73	7.70	33.03	NA	NA
S-2 (D)	01/04/1994	22,000	2,000	64	910	750	NA	NA	NA	NA	NA	NA	40.73	7.70	33.03	NA	NA
S-2	04/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	7.62	33.11	NA	NA
S-2	07/25/1994	43,000	2,600	490	990	1,300	NA	NA	NA	NA	NA	NA	40.73	7.86	32.87	NA	NA
S-2	10/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	8.12	32.61	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-2	01/26/1995	21,000	790	12	290	570	NA	NA	NA	NA	NA	NA	40.73	6.38	34.35	NA	5.5
S-2	04/21/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	7.01	33.72	NA	NA
S-2	07/28/1995	14,000	2,400	360	960	370	NA	NA	NA	NA	NA	NA	40.73	7.82	32.91	NA	4
S-2	10/31/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	7.57	33.16	NA	NA
S-2	01/10/1996	17,000	1,400	<50	480	170	NA	NA	NA	NA	NA	NA	40.73	8.13	32.60	NA	7.2
S-2	04/25/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	7.72	33.01	NA	NA
S-2	07/23/1996	16,000	2,700	69	1,100	110	9,500	NA	NA	NA	NA	NA	40.73	8.10	32.63	NA	2.2
S-2 (D)	07/23/1996	11,000	2,600	68	1,000	96	10,000	11,000	NA	NA	NA	NA	40.73	8.10	32.63	NA	2.2
S-2	12/10/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	8.57	32.16	NA	0.5
S-2	02/20/1997	10,000	500	<10	90	130	6,400	NA	NA	NA	NA	NA	40.73	8.15	32.58	NA	4
S-2	05/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	8.79	31.94	NA	1.1
S-2	08/22/1997	23,000	1,300	65	740	290	4,500	NA	NA	NA	NA	NA	40.73	8.05	32.68	NA	3.2
S-2 (D)	08/22/1997	20,000	1,200	<100	630	250	3,900	NA	NA	NA	NA	NA	40.73	8.05	32.68	NA	3.2
S-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	8.75	31.98	NA	1.2
S-2	02/20/1998	450	28	1.3	7.4	12	35	NA	NA	NA	NA	NA	40.73	6.34	34.39	NA	0.4
S-2	05/18/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	7.95	32.78	NA	0.8
S-2	08/20/1998	22,000	290	44	420	410	7,300	NA	NA	NA	NA	NA	40.73	7.73	33.00	NA	1.9
S-2	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	8.47	32.26	NA	NA
S-2	02/16/1999	27,000	200	<200	770	840	5,400	NA	NA	NA	NA	NA	40.73	7.24	33.49	NA	1.4
S-2	05/28/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	7.82	32.91	NA	1.3
S-2	08/24/1999	13,400	196	<25.0	439	113	597	NA	NA	NA	NA	NA	40.73	8.61	32.12	NA	1.2
S-2	11/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	8.17	32.56	NA	1.1
S-2	02/02/2000	7,850	176	88.0	134	111	540	NA	NA	NA	NA	NA	40.73	7.57	33.16	NA	1.2
S-2	05/09/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	7.94	32.79	NA	1.3
S-2	08/03/2000	35,000	255	122	842	224	905	726e	NA	NA	NA	NA	40.73	8.07	32.66	NA	1.1
S-2	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	8.13	32.60	NA	1.3
S-2	02/14/2001	13,000	147	<25.0	309	54.4	581	NA	NA	NA	NA	NA	40.73	6.39	34.34	NA	1.4
S-2	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	7.21	33.52	NA	1.5

**WELL CONCENTRATIONS**  
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-2	08/15/2001	15,000	67	4.1	220	33	NA	440	NA	NA	NA	NA	40.73	8.27	32.46	NA	0.6
S-2	12/31/2001	NA	NA	NA	NA	NA	NA	270	NA	NA	NA	NA	40.73	6.07	34.66	NA	0.2
S-2	02/06/2002	15,000	53	2.8	120	31	NA	220	NA	NA	NA	NA	40.73	7.98	32.75	NA	1.8
S-2	06/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.73	6.70	34.03	NA	0.2
S-2	07/25/2002	9,000	75	4.0	180	24	NA	460	NA	NA	NA	NA	40.63	7.67	32.96	NA	0.9
S-2	11/27/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.63	7.84	32.79	NA	0.7
S-2	01/30/2003	15,000	26	<2.5	92	22	NA	210	NA	NA	NA	NA	40.63	7.29	33.34	NA	15.6
S-2	06/03/2003	17,000	<25	<25	130	<50	NA	290	NA	NA	NA	NA	40.63	7.87	32.76	NA	5.4
S-2	08/08/2003	4,500	<2.5	<2.5	9.4	<5.0	NA	140	NA	NA	NA	NA	40.63	8.18	32.45	NA	16.2
S-2	11/13/2003	10,000	18	<10	47	21	NA	180	NA	NA	NA	NA	40.63	7.98	32.65	NA	19.5
S-2	02/04/2004	5,700	54	<10	54	<20	NA	270	NA	NA	NA	NA	40.63	7.21	33.42	NA	>15
S-2	05/12/2004	8,200	18	<10	<10	<20	NA	250	NA	NA	NA	NA	40.63	8.07	32.56	NA	3.1
S-2	08/23/2004	4,100	<10	<10	<10	<20	NA	84	<40	<40	<40	<100	40.63	8.52	32.11	NA	10.7
S-2	12/01/2004	2,000	3.4	<2.5	6.2	<5.0	NA	77	NA	NA	NA	NA	40.63	8.70	31.93	NA	11.8
S-2	02/07/2005	7,400	32	1.6	29	3.1	NA	210	NA	NA	NA	NA	40.63	7.58	33.05	NA	0.11
S-2	05/02/2005	8,100	84	4.9	83	5.5	NA	320	NA	NA	NA	NA	40.63	7.45	33.18	NA	0.6
S-2	08/04/2005	4,900	48	2.1	19	2.8	NA	330	<4.0	<4.0	<4.0	55	40.63	7.90	32.73	NA	0.4
S-2	11/16/2005	13,700	43.8	2.79	25.1	5.92	NA	156	NA	NA	NA	NA	40.63	8.33	32.30	NA	0.5
S-2	03/02/2006	5,800	44	3.2	20	5.6	NA	190	NA	NA	NA	NA	40.63	6.74	33.89	NA	0.63
S-2	05/31/2006	11,100	72.0	4.20	22.4	5.36	NA	308	NA	NA	NA	NA	40.63	7.46	33.17	NA	0.6
S-2	08/29/2006	37,400	72.1	5.08	39.6	6.89	NA	377	<0.500	<0.500	<0.500	46.7	40.63	8.02	32.61	NA	0.70
S-2	12/06/2006	5,000	41	3.2	11	5.2	NA	170	NA	NA	NA	NA	40.63	8.04	32.59	NA	0.5
S-2	01/30/2007	4,200	24	1.7	5.9	2.3	NA	140	NA	NA	NA	NA	40.63	8.08	32.55	NA	0.11
S-2	05/15/2007	8,100 j	48	3.5	19	6.2 l	NA	180	NA	NA	NA	NA	40.63	8.05	32.58	NA	0.11
S-3	05/13/1991	3,300	30	3.6	26	13	NA	NA	NA	NA	NA	NA	41.46	7.90	33.56	NA	NA
S-3	08/23/1991	2,000	25	4	9.3	4.5	NA	NA	NA	NA	NA	NA	41.46	8.14	33.32	NA	NA
S-3	11/07/1991	4,000	20	3.9	5	4.9	NA	NA	NA	NA	NA	NA	41.46	7.91	33.55	NA	NA

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S-3	01/28/1992	2,100	21	7.6	6.7	15	NA	NA	NA	NA	NA	NA	41.46	7.53	33.93	NA	NA
S-3 (D)	01/28/1992	2,100	18	6.1	7.1	14	NA	NA	NA	NA	NA	NA	41.46	7.53	33.93	NA	NA
S-3	05/06/1992	6,600	38	51	45	65	NA	NA	NA	NA	NA	NA	41.46	7.55	33.91	NA	NA
S-3	08/26/1992	5,800	18	12	29	60	NA	NA	NA	NA	NA	NA	41.46	7.53	33.93	NA	NA
S-3	10/28/1992	3,000	55	11	16	32	NA	NA	NA	NA	NA	NA	41.46	7.95	33.51	NA	NA
S-3	01/19/1993	3,100	<5	5.1	11	16	NA	NA	NA	NA	NA	NA	41.46	6.12	35.34	NA	NA
S-3	04/29/1993	3,000	31	22	<5	14	NA	NA	NA	NA	NA	NA	41.46	7.27	34.19	NA	NA
S-3	07/22/1993	2,600	3.1	43	23	53	NA	NA	NA	NA	NA	NA	41.46	7.62	33.84	NA	NA
S-3	10/21/1993	2,500	73	14	16	32	NA	NA	NA	NA	NA	NA	41.46	7.81	33.65	NA	NA
S-3	01/04/1994	4,800	13	21	<12.5	33	NA	NA	NA	NA	NA	NA	41.46	7.49	33.97	NA	NA
S-3	04/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	7.32	34.14	NA	NA
S-3	07/25/1994	2,600	6.1	4	3.8	12	NA	NA	NA	NA	NA	NA	41.46	7.66	33.80	NA	NA
S-3	10/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	7.49	33.97	NA	NA
S-3	01/26/1995	3,600	30	6.8	5.6	19	NA	NA	NA	NA	NA	NA	41.46	6.50	34.96	NA	NA
S-3 (D)	01/26/1995	2,200	9.9	15	14	22	NA	NA	NA	NA	NA	NA	41.46	6.50	34.96	NA	NA
S-3	04/21/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	6.79	34.67	NA	NA
S-3	07/28/1995	3,700	27	9.3	20	34	NA	NA	NA	NA	NA	NA	41.46	7.28	34.18	NA	4
S-3	10/31/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	6.74	34.72	NA	NA
S-3	01/10/1996	4,000	10	<0.5	13	28	NA	NA	NA	NA	NA	NA	41.46	7.48	33.98	NA	6.1
S-3	04/25/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	6.90	34.56	NA	NA
S-3	07/23/1996	2,100	20	<0.5	<0.5	<0.5	<25	NA	NA	NA	NA	NA	41.46	7.04	34.42	NA	2.1
S-3	12/10/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	7.96	33.50	NA	0.7
S-3	02/20/1997	3,500	83	<5.0	18	16	130	NA	NA	NA	NA	NA	41.46	7.44	34.02	NA	3
S-3 (D)	02/20/1997	3,000	69	<5.0	14	12	70	NA	NA	NA	NA	NA	41.46	7.44	34.02	NA	3
S-3	05/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	7.13	34.33	NA	0.6
S-3	08/22/1997	4,700	60	12	19	21	40	NA	NA	NA	NA	NA	41.46	6.81	34.65	NA	2.9
S-3	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	7.40	34.06	NA	0.9
S-3	02/20/1998	3,400	<10	<10	14	18	85	NA	NA	NA	NA	NA	41.46	6.55	34.91	NA	0.8

**WELL CONCENTRATIONS**  
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-3 (D)	02/20/1998	3,100	8.6	7.8	12	16	57	NA	NA	NA	NA	NA	41.46	6.55	34.91	NA	0.8
S-3	05/18/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	6.81	34.65	NA	0.7
S-3	08/20/1998	4,400	67	23	9.8	22	240	NA	NA	NA	NA	NA	41.46	6.98	34.48	NA	2.2
S-3	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	6.96	34.50	NA	NA
S-3	02/16/1999	2,000	6.9	6.2	3.7	4.8	47	NA	NA	NA	NA	NA	41.46	6.93	34.53	NA	2.0
S-3	05/28/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	6.74	34.72	NA	1.8
S-3	08/24/1999	4,170	54.8	14.2	6.65	13.7	43.4	NA	NA	NA	NA	NA	41.46	9.05	32.41	NA	1.9
S-3	11/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	7.09	34.37	NA	1.6
S-3	02/02/2000	2,410	133	112	24.9	104	46.0	NA	NA	NA	NA	NA	41.46	6.59	34.87	NA	1.9
S-3	05/09/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	7.13	34.33	NA	1.9
S-3	08/03/2000	3,890	17.2	21.9	<10.0	<10.0	166	NA	NA	NA	NA	NA	41.46	6.82	34.64	NA	1.8
S-3	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	6.98	34.48	NA	1.6
S-3	02/14/2001	2,800	35.8	5.57	3.83	2.94	1,070	1,250	NA	NA	NA	NA	41.46	6.57	34.89	NA	1.1
S-3	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.46	6.72	34.74	NA	1.6
S-3	08/15/2001	2,700	2.0	0.52	<0.50	2.0	NA	140	NA	NA	NA	NA	41.46	7.44	34.02	NA	0.6
S-3	12/31/2001	2,300	<2.0	<2.0	<2.0	<2.0	NA	470	NA	NA	NA	NA	41.46	6.62	34.84	NA	0.6
S-3	02/06/2002	2,000	2.6	1.6	4.3	7.8	NA	170	NA	NA	NA	NA	41.46	7.22	34.24	NA	2.2
S-3	06/04/2002	2,400	1.0	1.1	0.54	4.5	NA	120	NA	NA	NA	NA	41.46	7.34	34.12	NA	0.5
S-3	07/25/2002	3,100	0.86	<0.50	<0.50	2.0	NA	92	NA	NA	NA	NA	41.37	6.98	34.39	NA	1.0
S-3	11/27/2002	2,600	2.0	0.55	<0.50	2.1	NA	44	NA	NA	NA	NA	41.37	7.62	33.75	NA	0.7
S-3	01/30/2003	1,200	2.1	1.3	1.6	3.4	NA	42	NA	NA	NA	NA	41.37	7.14	34.23	NA	13.6
S-3	06/03/2003	2,700	2.9	<0.50	0.50	2.8	NA	43	NA	NA	NA	NA	41.37	7.25	34.12	NA	1.7
S-3	08/08/2003	1,400	2.4	0.71	<0.50	2.2	NA	32	NA	NA	NA	NA	41.37	7.67	33.70	NA	>20
S-3	11/13/2003	5,200	5.1	2.4	<1.0	5.6	NA	69	NA	NA	NA	NA	41.37	7.56	33.81	NA	19.6
S-3	02/04/2004	2,800	1.9	<1.0	1.0	2.6	NA	20	NA	NA	NA	NA	41.37	7.12	34.25	NA	>15
S-3	05/12/2004	1,900	2.8	<1.0	<1.0	2.2	NA	9.7	NA	NA	NA	NA	41.37	7.94	33.43	NA	4.0
S-3	08/23/2004	1,400	7.6	1.1	<1.0	2.9	NA	13	<4.0	<4.0	<4.0	<10	41.37	8.09	33.28	NA	13.3
S-3	12/01/2004	950	1.9	<1.0	<1.0	<2.0	NA	5.6	NA	NA	NA	NA	41.37	8.21	33.16	NA	13.0

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S-3	02/07/2005	1,800	1.4	<1.0	<1.0	2.1	NA	9.9	NA	NA	NA	NA	41.37	7.69	33.68	NA	0.25
S-3	05/02/2005	4,000	2.3	1.1	1.6	3.0	NA	9.9	NA	NA	NA	NA	41.37	7.20	34.17	NA	0.5
S-3	08/04/2005	3,600	2.1	<1.0	<2.0	3.6	NA	8.5	<4.0	<4.0	<4.0	33	41.37	8.14	33.23	NA	0.2
S-3	11/16/2005	6,000	2.24	0.800	0.660	3.35	NA	3.83	NA	NA	NA	NA	41.37	8.39	32.98	NA	0.6
S-3	03/02/2006	1,500	1.3	<0.50	0.57	2.0	NA	5.1	NA	NA	NA	NA	41.37	7.09	34.28	NA	0.52
S-3	05/31/2006	5,560	1.71	0.730	1.24	3.89	NA	8.01 i	NA	NA	NA	NA	41.37	7.95	33.42	NA	0.5
S-3	08/29/2006	4,850	1.82	0.680	1.19	2.22	NA	3.16	<0.500	<0.500	<0.500	<10.0	41.37	6.35	35.02	NA	0.88
S-3	12/06/2006	2,900	1.1	<0.50	<0.50	2.2	NA	<0.50	NA	NA	NA	NA	41.37	8.41	32.96	NA	0.3
S-3	01/30/2007	2,100	1.0	<0.50	0.53	1.8	NA	5.7	NA	NA	NA	NA	41.37	8.31	33.06	NA	0.36
S-3	05/15/2007	3,500 j	1.1	0.51 l	0.76 l	2.38 l	NA	8.0	NA	NA	NA	NA	41.37	7.60	33.77	NA	0.11
S-4	05/13/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	7.44	33.66	NA	NA
S-4	08/23/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	8.32	32.78	NA	NA
S-4	11/07/1991	260	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	8.32	32.78	NA	NA
S-4	01/28/1992	110c	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	7.40	33.70	NA	NA
S-4	05/06/1992	54	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	7.21	33.89	NA	NA
S-4	08/26/1992	67	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	8.13	32.97	NA	NA
S-4	10/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	8.73	32.37	NA	NA
S-4	01/19/1993	86	1.2	0.7	2.7	15	NA	NA	NA	NA	NA	NA	41.10	5.86	35.24	NA	NA
S-4	04/29/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	7.02	34.08	NA	NA
S-4 (D)	04/29/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	7.02	34.08	NA	NA
S-4	07/22/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	7.76	33.34	NA	NA
S-4	10/21/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	8.53	32.57	NA	NA
S-4	01/04/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	7.92	33.18	NA	NA
S-4	04/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.71	33.39	NA	NA
S-4	07/25/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.82	33.28	NA	NA
S-4	10/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	8.15	32.95	NA	NA
S-4	01/26/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	41.10	5.73	35.37	NA	NA

**WELL CONCENTRATIONS**  
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-4	04/21/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	6.26	34.84	NA	NA
S-4	07/28/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.80	33.30	NA	NA
S-4	10/31/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	8.45	32.65	NA	NA
S-4	01/10/1996	<50	1	2.8	<0.5	2.1	NA	NA	NA	NA	NA	NA	41.10	8.26	32.84	NA	2.8
S-4	04/25/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.14	33.96	NA	NA
S-4	07/23/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	41.10	8.18	32.92	NA	3.8
S-4	12/10/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.04	34.06	NA	3.9
S-4	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	6.7	NA	NA	NA	NA	NA	41.10	7.07	34.03	NA	5
S-4	05/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	6.63	34.47	NA	0.8
S-4	08/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.69	33.41	NA	3.7
S-4	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	8.26	32.84	NA	1.3
S-4	02/20/1998	130	6.9	4.6	5.2	17	2.8	NA	NA	NA	NA	NA	41.10	5.57	35.53	NA	1.8
S-4	05/18/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.13	33.97	NA	1.4
S-4	08/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.77	33.33	NA	4.0
S-4	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.85	33.25	NA	NA
S-4	02/16/1999	<50	<0.50	<0.50	<0.50	<0.50	23	NA	NA	NA	NA	NA	41.10	6.51	34.59	NA	3.6
S-4	05/28/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.00	34.10	NA	3.2
S-4	08/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	9.13	31.97	NA	1.9
S-4	11/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.79	33.31	NA	1.7
S-4	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	41.10	7.19	33.91	NA	1.9
S-4	05/09/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.51	33.59	NA	1.8
S-4	08/03/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.83	33.27	NA	1.9
S-4	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.69	33.41	NA	1.5
S-4	02/14/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	41.10	6.20	34.90	NA	1.6
S-4	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	6.56	34.54	NA	1.6
S-4	08/15/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.90	33.20	NA	0.6
S-4	12/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	5.62	35.48	NA	2.7
S-4	02/06/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	41.10	7.29	33.81	NA	0.2



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S-4	06/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.10	7.45	33.65	NA	0.6
S-4	07/25/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	7.39	33.65	NA	0.8
S-4	11/27/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	7.60	33.44	NA	NA
S-4	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	41.04	8.45	32.59	NA	NA
S-4	06/03/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	6.82	34.22	NA	NA
S-4	08/08/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	7.36	33.68	NA	NA
S-4	11/13/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	7.56	33.48	NA	NA
S-4	02/04/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	41.04	6.47	34.57	NA	NA
S-4	05/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	7.10	33.94	NA	NA
S-4	08/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	7.60	33.44	NA	NA
S-4	12/01/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	7.23	33.81	NA	NA
S-4	02/07/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	41.04	6.12	34.92	NA	NA
S-4	05/02/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	6.50	34.54	NA	NA
S-4	08/04/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	7.13	33.91	NA	NA
S-4	11/16/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	7.43	33.61	NA	NA
S-4	03/02/2006	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	41.04	6.05	34.99	NA	NA
S-4	05/31/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	6.64	34.40	NA	NA
S-4	08/29/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	7.25	33.79	NA	NA
S-4	12/06/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	7.39	33.65	NA	NA
S-4	01/30/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	41.04	7.24	33.80	NA	NA
S-4	05/15/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.04	6.60	34.44	NA	NA
S-5	05/13/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	14.60	30.57	6.48	NA
S-5	08/23/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	15.14	29.25	5.50	NA
S-5	11/07/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	15.10	29.17	5.35	NA
S-5	01/28/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	14.05	29.86	4.90	NA
S-5	05/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	14.31	30.21	5.66	NA
S-5	08/26/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	14.26	28.77	3.80	NA

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S-5	10/28/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	14.22	28.82	3.81	NA
S-5	01/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	12.36	30.80	3.96	NA
S-5	04/29/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	9.64	31.07	0.90	NA
S-5	07/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	9.55	31.16	0.90	NA
S-5	10/21/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	11.23	29.34	0.73	NA
S-5	01/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	11.69	29.82	1.90	NA
S-5	04/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	11.42	29.87	1.62	NA
S-5	07/25/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	12.01	29.41	1.79	NA
S-5	10/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	12.05	29.38	1.80	NA
S-5	01/26/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	8.42	32.95	1.72	NA
S-5	04/21/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	10.03	30.90	1.17	NA
S-5	07/28/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	11.42	30.07	1.87	NA
S-5	10/31/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	13.21	27.21	0.54	NA
S-5	01/10/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	12.05	28.04	0.13	NA
S-5	04/25/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	9.68	30.33	0.03	NA
S-5	07/23/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	9.82	30.20	0.04	NA
S-5	12/10/1996	270,000	8,800	29,000	5,200	37,000	<2,500	NA	NA	NA	NA	NA	39.99	9.10	30.91	0.03	NA
S-5 (D)	12/10/1996	400,000	9,200	32,000	7,200	50,000	<2,500	NA	NA	NA	NA	NA	39.99	9.10	30.91	0.03	NA
S-5	02/20/1997	88,000	2,000	11,000	1,600	19,000	<500	NA	NA	NA	NA	NA	39.99	8.93	31.06	NA	5
S-5	05/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	10.07	29.94	0.02	NA
S-5	08/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	10.24	29.77	0.02	NA
S-5	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	10.91	29.10	0.02	NA
S-5	02/20/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	7.81	32.20	0.03	NA
S-5	05/18/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	9.64	30.37	0.02	NA
S-5	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.99	10.13	29.86	NA	NA
S-6	05/13/1991	13,000	600	140	210	310	NA	NA	NA	NA	NA	NA	40.12	7.82	32.30	NA	NA
S-6	08/23/1991	9,800	480	80	120	150	NA	NA	NA	NA	NA	NA	40.12	9.58	30.54	NA	NA

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-6	11/07/1991	6,200	240	23	25	27	NA	NA	NA	NA	NA	NA	40.12	10.86	29.26	NA	NA
S-6	01/28/1992	5,600	250	15	41	36	NA	NA	NA	NA	NA	NA	40.12	8.97	31.15	NA	NA
S-6	05/06/1992	7,100	330	29	110	210	NA	NA	NA	NA	NA	NA	40.12	8.27	31.85	NA	NA
S-6	08/26/1992	13,000	240	<50	56	780	NA	NA	NA	NA	NA	NA	40.12	9.57	31.55	NA	NA
S-6	10/28/1992	10,000	470	210	67	170	NA	NA	NA	NA	NA	NA	40.12	8.90	32.22	NA	NA
S-6	01/19/1993	4,800	100	26	27	45	NA	NA	NA	NA	NA	NA	40.12	4.84	35.28	NA	NA
S-6	04/29/1993	7,000	430	20	<12.5	42	NA	NA	NA	NA	NA	NA	40.12	5.61	34.51	NA	NA
S-6	07/22/1993	5,800	260	120	65	150	NA	NA	NA	NA	NA	NA	40.12	6.56	33.56	NA	NA
S-6	10/21/1993	5,500	270	69	120	140	NA	NA	NA	NA	NA	NA	40.12	8.73	31.39	NA	NA
S-6	01/04/1994	7,100	180	58	63	62	NA	NA	NA	NA	NA	NA	40.12	7.14	32.98	NA	NA
S-6	04/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	7.21	32.91	NA	NA
S-6	07/25/1994	12,000	190	52	30	39	NA	NA	NA	NA	NA	NA	40.12	6.85	33.27	NA	NA
S-6 (D)	07/25/1994	7,200	170	32	31	34	NA	NA	NA	NA	NA	NA	40.12	6.85	33.27	NA	NA
S-6	10/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	6.20	33.92	NA	NA
S-6	01/26/1995	5,800	120	23	24	44	NA	NA	NA	NA	NA	NA	40.12	4.89	35.23	NA	NA
S-6	04/21/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	5.61	34.51	NA	NA
S-6	07/28/1995	4,400	210	23	34	60	NA	NA	NA	NA	NA	NA	40.12	5.30	34.82	NA	3
S-6 (D)	07/28/1995	6,100	230	20	38	59	NA	NA	NA	NA	NA	NA	40.12	5.30	34.82	NA	3
S-6	10/31/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	4.98	35.14	NA	NA
S-6	01/10/1996	6,800	170	87	35	105	NA	NA	NA	NA	NA	NA	40.12	5.67	34.45	NA	2.2
S-6 (D)	01/10/1996	7,800	230	120	50	210	NA	NA	NA	NA	NA	NA	40.12	5.67	34.45	NA	2.2
S-6	04/25/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	5.23	34.89	NA	NA
S-6	07/23/1996	2,600	170	<0.5	<0.5	8.5	<25	NA	NA	NA	NA	NA	40.12	5.40	34.72	NA	1.4
S-6	12/10/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	6.68	33.44	NA	0.7
S-6	02/20/1997	6,300	160	7.7	14	31	77	NA	NA	NA	NA	NA	40.12	5.70	34.42	NA	2
S-6	05/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	5.49	34.63	NA	0.9
S-6	08/22/1997	6,200	160	26	15	27	49	NA	NA	NA	NA	NA	40.12	5.71	34.41	NA	2.8
S-6	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	6.15	33.97	NA	1.4

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S-6	02/20/1998	4,100	150	<10	<10	15	55	NA	NA	NA	NA	NA	40.12	5.25	34.87	NA	0.4
S-6	05/18/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	5.69	34.43	NA	0.4
S-6	08/20/1998	7,800	240	38	16	39	110	NA	NA	NA	NA	NA	40.12	6.04	34.08	NA	1.5
S-6 (D) b	08/20/1998	8,400	270	30	19	31	130	NA	NA	NA	NA	NA	40.12	6.04	34.08	NA	1.5
S-6	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	6.10	34.02	NA	NA
S-6	02/16/1999	6,000	190	19	14	20	<2.5	NA	NA	NA	NA	NA	40.12	5.84	34.28	NA	1.7
S-6	05/28/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	9.51	30.61	NA	1.9
S-6	08/24/1999	6,870	193	32.1	18.8	36.4	<25.0	NA	NA	NA	NA	NA	40.12	8.29	31.83	NA	2.7
S-6	11/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	5.93	34.19	NA	2.6
S-6	02/02/2000	2,310	164	122	28.6	133	63.1	NA	NA	NA	NA	NA	40.12	5.33	34.79	NA	2.6
S-6	05/09/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	6.41	33.71	NA	2.4
S-6	08/03/2000	5,600	188	27.4	<10.0	25.2	174	NA	NA	NA	NA	NA	40.12	5.84	34.28	NA	2.7
S-6	11/15/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	5.58	34.54	NA	2.3
S-6	02/14/2001	6,140	126	13.2	8.01	18.0	205	NA	NA	NA	NA	NA	40.12	5.50	34.62	NA	1.3
S-6	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.12	5.52	34.60	NA	1.2
S-6	08/15/2001	6,000	160	9.1	5.8	24	NA	51	NA	NA	NA	NA	40.12	6.04	34.08	NA	0.4
S-6	12/31/2001	6,900	120	12	6.6	24	NA	44	NA	NA	NA	NA	40.12	5.52	34.60	NA	0.4
S-6	02/06/2002	4,300	110	7.3	4.8	18	NA	39	NA	NA	NA	NA	40.12	6.34	33.78	NA	0.5
S-6	06/04/2002	4,300	140	8.4	4.9	22	NA	26	NA	NA	NA	NA	40.12	6.19	33.93	NA	0.4
S-6	07/25/2002	3,900	140	9.0	5.5	23	NA	31	NA	NA	NA	NA	39.92	6.05	33.87	NA	0.7
S-6	11/27/2002	5,200	160	9.6	4.9	24	NA	26	NA	NA	NA	NA	39.92	6.26	33.66	NA	NA
S-6	01/30/2003	4,700	200	9.6	5.5	25	NA	30	NA	NA	NA	NA	39.92	5.73	34.19	NA	NA
S-6	06/03/2003	3,900	160	10	<10	25	NA	30	NA	NA	NA	NA	39.92	5.52	34.40	NA	NA
S-6	08/08/2003	2,900	150	8.8	3.6	18	NA	18	NA	NA	NA	NA	39.92	6.14	33.78	NA	NA
S-6	11/13/2003	8,300	220	19	11	35	NA	28	NA	NA	NA	NA	39.92	5.85	34.07	NA	NA
S-6	02/04/2004	7,400	310	17	10	31	NA	30	NA	NA	NA	NA	39.92	5.51	34.41	NA	NA
S-6	05/12/2004	4,000	230	10	5.5	24	NA	21	NA	NA	NA	NA	39.92	6.10	33.82	NA	NA
S-6	08/23/2004	6,000	260	16	9.0	32	NA	19	NA	NA	NA	NA	39.92	6.38	33.54	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-6	12/01/2004	9,600	280	23	11	47	NA	24	NA	NA	NA	NA	39.92	6.41	33.51	NA	NA
S-6	02/07/2005	7,100	300	14	8.4	35	NA	21	NA	NA	NA	NA	39.92	5.94	33.98	NA	NA
S-6	05/02/2005	6,100	250	12	8.1	30	NA	16	NA	NA	NA	NA	39.92	5.90	34.02	NA	NA
S-6	08/04/2005	5,200	180	13	8.0	31	NA	15	NA	NA	NA	NA	39.92	6.67	33.25	NA	NA
S-6	11/16/2005	9,950	147	15.3	9.82	32.3	NA	10.8	NA	NA	NA	NA	39.92	6.64	33.28	NA	NA
S-6	03/02/2006	2,400	72	9.2	7.0	21	NA	6.4	NA	NA	NA	NA	39.92	5.92	34.00	NA	NA
S-6	05/31/2006	9,460	182	13.6	8.80	33.5	NA	11.4 i	NA	NA	NA	NA	39.92	6.28	33.64	NA	NA
S-6	08/29/2006	8,840	108	26.6	12.4	37.7	NA	10.1	NA	NA	NA	NA	39.92	7.19	32.73	NA	NA
S-6	12/06/2006	4,900	130	17	8.2	35	NA	9.4	NA	NA	NA	NA	39.92	7.06	32.86	NA	NA
S-6	01/30/2007	4,500	100	22	12	38	NA	8.1	NA	NA	NA	NA	39.92	6.94	32.98	NA	NA
S-6	05/15/2007	6,900 j	120	9.2	6.7	27.6	NA	6.4	NA	NA	NA	NA	39.92	6.30	33.62	NA	NA
S-7	05/13/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	10.56	29.54	NA	NA
S-7	08/23/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	11.16	28.94	NA	NA
S-7	11/07/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	11.48	28.62	NA	NA
S-7	01/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	10.72	29.38	NA	NA
S-7	05/06/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	10.34	29.76	NA	NA
S-7	08/26/1992	160	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	11.13	28.97	NA	NA
S-7	10/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	11.52	28.58	NA	NA
S-7	01/19/1993	50	1.1	0.6	1.9	9.2	NA	NA	NA	NA	NA	NA	40.10	8.68	31.42	NA	NA
S-7	04/29/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	9.90	30.20	NA	NA
S-7	07/22/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	40.10	NA	NA	NA	NA
S-7	10/21/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	11.10	29.00	NA	NA
S-7	01/04/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	10.40	29.70	NA	NA
S-7	04/13/1994	<50	1.4	0.61	<0.5	0.64	NA	NA	NA	NA	NA	NA	40.10	10.20	29.90	NA	NA
S-7 (D)	04/13/1994	<50	1.4	0.61	<0.5	0.66	NA	NA	NA	NA	NA	NA	40.10	10.20	29.90	NA	NA
S-7	07/25/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	10.48	29.62	NA	NA
S-7 a	10/10/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	10.64	29.46	NA	NA

**WELL CONCENTRATIONS**  
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**999 San Pablo Avenue**  
**Albany, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-7	01/26/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	7.75	32.35	NA	4.6
S-7	04/21/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	8.51	31.59	NA	NA
S-7	07/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	10.20	29.90	NA	3
S-7	10/31/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	40.10	10.86	29.24	NA	4.9
S-7	01/10/1996	<50	<0.5	2	<0.5	2.6	NA	NA	NA	NA	NA	NA	40.10	10.33	29.77	NA	7.6
S-7	04/25/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	40.10	9.13	30.97	NA	6.2
S-7	07/23/1996	<50	<0.5	<0.5	<0.5	<0.5	14	NA	NA	NA	NA	NA	40.10	10.18	29.92	NA	3.7
S-7	12/10/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	40.10	9.04	31.06	NA	4.6
S-7	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	40.10	9.60	30.50	NA	5
S-7	05/22/1997	<50	1.3	<0.50	<0.50	<0.50	5.5	NA	NA	NA	NA	NA	40.10	10.63	29.47	NA	0.8
S-7	08/22/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	40.10	10.95	29.15	NA	2.6
S-7	11/03/1997	<50	2.2	1.7	0.58	3.4	<2.5	NA	NA	NA	NA	NA	40.10	11.29	28.81	NA	2.6
S-7	02/20/1998	350	23	13	14	42	3.8	NA	NA	NA	NA	NA	40.10	7.73	32.37	NA	4.6
S-7	05/18/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	40.10	10.29	29.81	NA	4.4
S-7	08/20/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	40.10	11.00	29.10	NA	5.4
S-7	11/06/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	40.10	11.19	28.91	NA	5.2
S-7	02/16/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	40.10	NA	NA	NA	NA
S-7	05/28/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	40.10	9.76	30.34	NA	2.7
S-7	08/24/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	40.10	10.61	29.49	NA	2.1
S-7	11/16/1999	<50.0	<0.500	<0.500	<0.500	<0.500	3.68	NA	NA	NA	NA	NA	40.10	10.90	29.20	NA	2.3
S-7	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	40.10	10.30	29.80	NA	2.1
S-7	05/09/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	40.10	10.25	29.85	NA	2.7
S-7	08/03/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	40.10	10.65	29.45	NA	2.5
S-7	11/15/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	40.10	10.53	29.57	NA	4.6
S-7	02/14/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	40.10	NA	NA	NA	NA
S-7	05/31/2001	<50	<0.50	<0.50	<0.50	0.77	NA	4.6	NA	NA	NA	NA	40.10	9.46	30.64	NA	2.1
S-7	08/15/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	40.10	10.93	29.17	NA	2.0
S-7	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	6.0	NA	NA	NA	NA	40.10	9.14	30.96	NA	3.0

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
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**Albany, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-7	02/06/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	40.10	8.61	31.49	NA	3.2
S-7	06/04/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	40.10	10.41	29.69	NA	0.9
S-7	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	39.91	10.37	29.54	NA	1.1
S-7	11/27/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	39.91	10.52	29.39	NA	NA
S-7	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	39.91	9.38	30.53	NA	NA
S-7	06/03/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	0.72	NA	NA	NA	NA	39.91	10.18	29.73	NA	NA
S-7	08/08/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.91	10.43	29.48	NA	NA
S-7	11/13/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.91	10.39	29.52	NA	NA
S-7	02/04/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.91	9.17	30.74	NA	NA
S-7	05/12/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.91	10.20	29.71	NA	NA
S-7	08/23/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.72 f	10.53	29.19	NA	NA
S-7	12/01/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.72	10.36	29.36	NA	NA
S-7	02/07/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.72	8.78	30.94	NA	NA
S-7	05/02/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.72	9.46	30.26	NA	NA
S-7	08/04/2005	Well paved over		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	11/16/2005	Well paved over		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	03/02/2006	Well paved over		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	05/31/2006	Well paved over		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	08/29/2006	Well paved over		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	12/06/2006	Well paved over		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	01/30/2007	Well paved over		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	05/15/2007	Well paved over		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-8	05/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.52	10.85	29.67	NA	NA
S-8	05/12/2004	<1,300	<13	<13	<13	<25	NA	2,500	NA	NA	NA	NA	40.52	10.95	29.57	NA	NA
S-8	08/23/2004	1,300	15	<13	<13	<25	NA	2,500	<50	<50	<50	570	40.52	11.40	29.12	NA	NA
S-8	12/01/2004	1,400 h	<13	<13	<13	<25	NA	2,700	NA	NA	NA	NA	40.52	11.10	29.42	NA	NA
S-8	02/07/2005	6,400	240	27	290	100	NA	370	NA	NA	NA	NA	40.52	10.22	30.30	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-8	05/02/2005	6,300	160	25	200	74	NA	190	NA	NA	NA	NA	40.52	10.05	30.47	NA	NA
S-8	08/04/2005	2,500	130	7.5	<6.0	14	NA	290	<8.0	<8.0	<8.0	92	40.52	10.88	29.64	NA	NA
S-8	11/16/2005	27,700	43.2	4.36	637	1,200	NA	638	NA	NA	NA	NA	40.52	11.28	29.24	NA	NA
S-8	03/02/2006	9,900	160	13	490	530	NA	110	NA	NA	NA	NA	40.52	8.85	31.67	NA	NA
S-8	05/31/2006	14,300	270	53.1	283	246	NA	102 i	NA	NA	NA	NA	40.52	10.34	30.18	NA	NA
S-8	08/29/2006	14,700	107	9.42	196	195	NA	278	<0.500	<0.500	<0.500	36.1	40.52	11.17	29.35	NA	NA
S-8	12/06/2006	7,800	150	8.6	120	110	NA	200	NA	NA	NA	NA	40.52	11.21	29.31	NA	NA
S-8	01/30/2007	7,500	220	18	180	96	NA	170	NA	NA	NA	NA	40.52	10.72	29.80	NA	NA
<b>S-8</b>	<b>05/15/2007</b>	<b>9,600 j</b>	<b>200</b>	<b>24</b>	<b>160</b>	<b>112</b>	<b>NA</b>	<b>130</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>40.52</b>	<b>10.50</b>	<b>30.02</b>	<b>NA</b>	<b>NA</b>

S-9	05/10/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.72	10.34	29.38	NA	NA
S-9	05/12/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.72	10.42	29.30	NA	NA
S-9	08/23/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.72	11.32	28.40	NA	NA
S-9	12/01/2004	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	39.72	NA	NA	NA	NA
S-9	02/07/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.72	8.74	30.98	NA	NA
S-9	05/02/2005	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	39.72	NA	NA	NA	NA
S-9	08/04/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.72	8.79	30.93	NA	NA
S-9	11/16/2005	<50.0	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	39.72	10.30	29.42	NA	NA
S-9	03/02/2006	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	39.72	5.86	33.86	NA	NA
S-9	05/31/2006	<50.0	<0.500	<0.500	<0.500	0.540	NA	<0.500	NA	NA	NA	NA	39.72	9.85	29.87	NA	NA
S-9	08/29/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	39.72	10.75	28.97	NA	NA
S-9	12/06/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.72	10.60	29.12	NA	NA
S-9	01/30/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	39.72	10.45	29.27	NA	NA
<b>S-9</b>	<b>05/15/2007</b>	<b>61 j,k</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>NA</b>	<b>&lt;1.0</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>39.72</b>	<b>10.15</b>	<b>29.57</b>	<b>NA</b>	<b>NA</b>



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

TOB = Top of Wellbox Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

mg/L = Parts per million

MSL = Mean sea level

ft. = Feet

ppm = Parts per million

<n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**999 San Pablo Avenue**  
**Albany, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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Notes:

- a = Sample analyzed for total dissolved solids (450 mg/L).
  - b = Surrogate recovery outside QC limits due to matrix effect.
  - c = Chromatogram pattern indicated an unidentified hydrocarbon.
  - d = This sample analyzed outside of EPA recommended hold time.
  - e = Concentration is an estimate value above the linear quantitation range.
  - f = Top of casing elevation lowered 0.19 feet on June 22, 2004 due to wellhead maintenance.
  - g = Hydrocarbon reported does not match the laboratory standard.
  - h = Quantity of unknown hydrocarbon(s) in sample based on gasoline.
  - i = Secondary ion abundances were outside method requirements. Identification based on analytical judgement.
  - j = Analyzed by EPA Method 8015B (M).
  - k = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
  - l = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
- When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation:  
Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).
- Ownership of well S-5 is being transferred to Arco.
- Beginning July 25, 2002 depth to waters referenced to Top of Casing.
- Site surveyed January 9, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.
- Wells S-8 and S-9 surveyed May 11, 2004 by Virgil Chavez Land Surveying of Vallejo, CA.

**APPENDIX C**

**HISTORICAL GROUND-WATER DATA TABLES**

**Table 1  
Groundwater Monitoring Data**

**ARCO Service Station No. 2035  
1001 San Pablo Avenue, Albany, California**

Well Number	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft-MSL)	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B+ (µg/L)	MTBE 8240/8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
MW-1	41.41	6.21	0.00	35.20	03-23-91	8,800	3,600	<50	62	99	--	--	--	--
MW-1	41.41	9.37	0.00	32.04	05-23-91	4,800	2,000	<20	52	<20	--	--	--	--
MW-1	41.41	10.30	0.00	31.11	08-21-91	780	310	<2.5	12	<2.5	14	--	--	--
MW-1	41.41	12.25	0.00	29.16	11-08-91	58	14	<0.5	<0.5	<0.5	--	--	--	--
MW-1	41.41	9.08	0.00	32.33	02-26-92	2,700	930	12	18	32	51	--	--	--
MW-1	41.41	9.11	0.00	32.30	04-21-92	2,700	1,000	<10	22	<10	<60	--	--	--
MW-1	41.41	10.37	0.00	31.04	08-14-92	300	52	<0.5	0.9	<0.5	22	--	--	--
MW-1	41.41	8.79	0.00	32.62	12-09-92	270	63	0.7	<0.5	1	25	--	--	--
MW-1	41.41	9.80	0.00	31.61	03-26-93	1,500	610	<5	15	7	56	--	--	--
MW-1	41.41	9.65	0.00	31.76	05-21-93	110	6	<0.5	<0.5	0.7	10	--	--	--
MW-1	41.41	10.22	0.00	31.19	09-03-93	180	40	<0.5	1.2	0.5	26	--	--	--
MW-1	41.41	10.68	0.00	30.73	11-02-93	83	8	<0.5	<0.5	<0.5	13	--	--	--
MW-1	41.41	6.92	0.00	34.49	02-19-94	1,800	540	7	27	31	46	--	--	--
MW-1	41.41	9.28	0.00	32.13	05-17-94	4,500	1,300	20	57	20	<60	--	--	--
MW-1	41.41	10.05	0.00	31.36	08-20-94	530	110	<5	<5	<5	400	--	--	--
MW-1	41.41	10.42	0.00	30.99	10-19-94	66	9.1	<0.5	<0.5	<0.5	8	--	--	--
MW-1	41.41	8.10	0.00	33.31	02-15-95	1,200	390	<5	<5	6	45	--	--	--
MW-1	41.41	9.53	0.00	31.88	05-23-95	1,300	600	3	13	3	26	--	--	--
MW-1	41.41	10.03	0.00	31.38	08-23-95	100	21	1.3	<0.5	<0.5	8	--	0.55	P
MW-1	41.41	9.80	0.00	31.61	11-15-95	99	10	0.6	<0.5	<1	7	--	2.1	P
MW-1	41.41	8.82	0.00	32.59	02-01-96	400	93	1.6	3.6	3.7	19	--	1.0	P
DUP I	--	--	--	--	06-20-96	416	88.4	<2.50	4.61	1.56	<5.00	--	--	--
MW-1	41.41	9.60	0.00	31.81	06-20-96	444	100	<2.50	4.15	<2.50	15.9	--	1.7	P
MW-1	41.41	9.50	0.00	31.91	11-05-96	73.2	17.8	<0.500	<0.500	<0.500	7.80	--	1.04	P
MW-1	41.41	9.28	0.00	32.13	05-03-97	714	392	<5.00	<5.00	<5.00	26.1	--	--	P
MW-1	41.41	10.50	0.00	30.91	10-02-97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	0.59	P
DUP I	--	--	--	--	10-02-97	<50	<0.50	<0.50	<0.50	0.52	<2.5	--	--	--

**Table 1  
Groundwater Monitoring Data**

**ARCO Service Station No. 2035  
1001 San Pablo Avenue, Albany, California**

Well Number	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft-MSL)	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzenc (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8240/8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)	
MW-2	40.38	6.96	0.00	33.42	03-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
MW-2	40.38	10.02	0.00	30.36	05-23-91	Not sampled: well sampled semi-annually, during the first and third quarters									
MW-2	40.38	10.87	0.00	29.51	08-21-91	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
MW-2	40.38	13.12	0.00	27.26	11-08-91	Not sampled: well sampled semi-annually, during the first and third quarters									
MW-2	40.38	10.25	0.00	30.13	02-26-92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
MW-2	40.38	9.98	0.00	30.40	04-21-92	Not sampled: well sampled semi-annually, during the first and third quarters									
MW-2	40.38	11.10	0.00	29.28	08-14-92	<50	<0.5	<0.5	<0.5	<0.5	4	--	--	--	
MW-2	40.38	10.00	0.00	30.38	12-09-92	Not sampled: well sampled semi-annually, during the first and third quarters									
MW-2	40.38	10.38	0.00	30.00	03-26-93	<50	<0.5	<0.5	<0.5	<0.5	12	--	--	--	
MW-2	40.38	10.65	0.00	29.73	05-21-93	Not sampled: well sampled semi-annually, during the first and third quarters									
MW-2	40.38	10.87	0.00	29.51	09-03-93	<50	<0.5	<0.5	<0.5	<0.5	19	--	--	--	
MW-2	40.38	11.25	0.00	29.13	11-02-93	<50	<0.5	<0.5	<0.5	<0.5	18	--	--	--	
MW-2	40.38	7.69	0.00	32.69	02-19-94	<50	0.5	<0.5	<0.5	<0.5	12	--	--	--	
MW-2	40.38	9.88	0.00	30.50	05-17-94	<50	<0.5	<0.5	<0.5	<0.5	10	--	--	--	
MW-2	40.38	10.62	0.00	29.76	08-20-94	<50	<0.5	<0.5	<0.5	<0.5	3	--	--	--	
MW-2	40.38	11.00	0.00	29.38	10-19-94	<50	<0.5	<0.5	<0.5	<0.5	31	--	--	--	
MW-2	40.38	9.04	0.00	31.34	02-15-95	<50	<0.5	<0.5	<0.5	<0.5	13	--	--	--	
MW-2	40.38	9.90	0.00	30.48	05-23-95	<50	0.6	<0.5	<0.5	<0.5	47	--	--	--	
MW-2	40.38	10.60	0.00	29.78	08-23-95	<50	<0.5	<0.5	<0.5	<0.5	20	--	0.88	P	
MW-2	40.38	10.45	0.00	29.93	11-15-95	<50	<0.5	<0.5	<0.5	<1	<3	--	2.5	P	
MW-2	40.38	9.49	0.00	30.89	02-01-96	<50	<0.5	<0.5	<0.5	<1	59	--	1.0	P	
MW-2	40.38	10.30	0.00	30.08	06-20-96	<50.0	<0.500	<0.500	<0.500	<0.500	4.17	--	1.5	P	
MW-2	40.38	10.19	0.00	30.19	11-05-96	<50.0	<0.500	<0.500	<0.500	<0.500	30.6	--	1.27	P	
MW-2	40.38	10.15	0.00	30.23	05-03-97	<50.0	<0.500	<0.500	<0.500	<0.500	32.7	--	--	P	
DUP	--	--	--	--	05-03-97	<50.0	<0.500	<0.500	<0.500	<0.500	31.5	--	--	--	
MYY-2	40.38	10.97	0.00	29.41	10-02-97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	0.63	P	

**Table 1  
Groundwater Monitoring Data**

**ARCO Service Station No. 2035  
1001 San Pablo Avenue, Albany, California**

Well Number	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft-MSL)	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8240/8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
MW-3	41.44	7.29	0.00	34.15	03-23-91	51	0.8	<0.5	2.4	<0.5	--	--	--	--
MW-3	41.44	9.53	0.00	31.91	05-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-3	41.44	11.19	0.00	30.25	08-21-91	<50	<0.5	<0.5	<0.5	<0.5	79	--	--	--
MW-3	41.44	12.77	0.00	28.67	11-08-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-3	41.44	9.41	0.00	32.03	02-26-92	120	3.6	<0.5	2.2	3.7	90	--	--	--
MW-3	41.44	9.63	0.00	31.81	04-21-92	<50	<0.5	<0.5	<0.5	<0.5	90	--	--	--
MW-3	41.44	11.12	0.00	30.32	08-14-92	<50	<0.5	<0.5	<0.5	<0.5	54	--	--	--
MW-3	41.44	10.34	0.00	31.10	12-09-92	71	<0.5	<0.5	<0.5	<0.5	130	--	--	--
MW-3	41.44	10.28	0.00	31.16	03-26-93	<100	<1	<1	<1	<1	170	--	--	--
MW-3	41.44	10.40	0.00	31.04	05-21-93	<100	<1	<1	<1	<1	95	--	--	--
MW-3	41.44	10.75	0.00	30.69	09-03-93	<50	<0.5	<0.5	<0.5	<0.5	37	--	--	--
MW-3	41.44	11.44	0.00	30.00	11-02-93	<200	<2	<2	<2	<2	130	--	--	--
MW-3	41.44	7.48	0.00	33.96	02-19-94	<200	<2	5	<2	8	140	--	--	--
MW-3	41.44	9.87	0.00	31.57	05-17-94	<100	<1	<1	<1	<1	150	--	--	--
MW-3	41.44	10.72	0.00	30.72	08-20-94	<200	<2	<2	<2	<2	210	--	--	--
MW-3	41.44	11.30	0.00	30.14	10-19-94	<200	<2	<2	<2	<2	270	--	--	--
MW-3	41.44	8.60	0.00	32.84	02-15-95	<500	<5	<5	<5	<5	700	--	--	--
MW-3	41.44	9.87	0.00	31.57	05-23-95	<50	<0.5	<0.5	<0.5	<0.5	150	140	--	--
MW-3	41.44	10.83	0.00	30.61	08-23-95	<50	<0.5	<0.5	<0.5	<0.5	54	71	0.41	P
MW-3	41.44	10.54	0.00	30.90	11-15-95	100	<0.5	3.3	<0.5	<1	500	--	6.2	P
MW-3	41.44	5.69	0.00	35.75	02-01-96	18,000	1,000	45	1,500	940	100	--	2.12	P
MW-3	41.44	9.99	0.00	31.45	06-20-96	90.9	1.52	<0.500	<0.500	<0.500	187	--	2.6	P
MW-3	41.44	10.15	0.00	31.29	11-05-96	138	2.37	<0.500	<0.500	<0.500	216	--	0.47	P
MW-3	41.44	10.17	0.00	31.27	05-03-97	316	15.7	1.14	<0.500	<0.500	178	--	--	P
MW-3	41.44	10.99	0.00	30.45	10-02-97	120	<0.50	<0.50	<0.50	<0.50	120	--	0.47	P

**Table 1  
Groundwater Monitoring Data**

**ARCO Service Station No. 2035  
1001 San Pablo Avenue, Albany, California**

Well Number	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft-MSL)	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8240/8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
MW-4	40.33	5.92	0.00	34.41	03-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-4	40.33	9.23	0.00	31.10	05-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-4	40.33	10.61	0.00	29.72	08-21-91	<50	<0.5	<0.5	<0.5	<0.5	99	--	--	--
MW-4	40.33	11.97	0.00	28.36	11-08-91	<50	<0.5	<0.5	<0.5	<0.5	--	89	--	--
MW-4	40.33	8.84	0.00	31.49	02-26-92	<50	0.8	<0.5	<0.5	<0.5	<3	--	--	--
MW-4	40.33	9.15	0.00	31.18	04-21-92	Not sampled: well sampled annually, during the first quarter							--	--
MW-4	40.33	10.35	0.00	29.98	08-14-92	Not sampled: well sampled annually, during the first quarter							--	--
MW-4	40.33	8.70	0.00	31.63	12-09-92	Not sampled: well sampled annually, during the first quarter							--	--
MW-4	40.33	9.75	0.00	30.58	03-26-93	<5,000	<50	<50	<50	<50	4,200	--	--	--
MW-4	40.33	9.91	0.00	30.42	05-21-93	Not sampled: well sampled annually, during the first quarter							--	--
MW-4	40.33	10.25	0.00	30.08	09-03-93	Not sampled: well sampled annually, during the first quarter							--	--
MW-4	40.33	10.79	0.00	29.54	11-02-93	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-4	40.33	6.78	0.00	33.55	02-19-94	<2,000	<20	<20	<20	<20	3,300	--	--	--
MW-4	40.33	9.26	0.00	31.07	05-17-94	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-4	40.33	10.10	0.00	30.23	08-20-94	<50	<0.5	<0.5	<0.5	<0.5	9	--	--	--
MW-4	40.33	10.43	0.00	29.90	10-19-94	<50	<0.5	<0.5	<0.5	<0.5	17	--	--	--
MW-4	40.33	8.56	0.00	31.77	02-15-95	<500	<5	<5	<5	<5	400	--	--	--
MW-4	40.33	9.52	0.00	30.81	05-23-95	<50	<0.5	<0.5	<0.5	<0.5	10	7.6	--	--
MW-4	40.33	9.99	0.00	30.34	08-23-95	<2,500	<25	<25	<25	<25	1,200	1,300	0.84	NP
MW-4	40.33	9.80	0.00	30.53	11-15-95	<50	<0.5	<0.5	<0.5	<1	<3	--	0.0	NP
MW-4	40.33	9.11	0.00	31.22	02-01-96	<50	<0.5	<0.5	<0.5	<1	1,200	--	1.0	NP
MW-4	40.33	9.60	0.00	30.73	06-20-96	<50.0	<0.500	<0.500	<0.500	<0.500	60.5	--	1.3	NP
MW-4	40.33	9.53	0.00	30.80	11-05-96	<50.0	<0.500	<0.500	<0.500	<0.500	14.0	--	0.71	NP
MW-4	40.33	9.21	0.00	31.12	05-03-97	<50.0	<0.500	<0.500	<0.500	<0.500	83.6	--	--	NP
MW-4	40.33	10.74	0.00	29.59	10-02-97	<50	<0.50	<0.50	<0.50	<0.50	260	--	0.59	NP

**Table 1  
Groundwater Monitoring Data**

**ARCO Service Station No. 2035  
1001 San Pablo Avenue, Albany, California**

Well Number	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft-MSL)	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8240/8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)		
MW-5	41.84	6.23	0.00	35.61	03-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-5	41.84	9.61	0.00	32.23	05-23-91	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	11.12	0.00	30.72	08-21-91	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	12.52	0.00	29.32	11-08-91	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	9.52	0.00	32.32	02-26-92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-5	41.84	9.44	0.00	32.40	04-21-92	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	10.83	0.00	31.01	08-14-92	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	9.20	0.00	32.64	12-09-92	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	10.10	0.00	31.74	03-26-93	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-5	41.84	10.28	0.00	31.56	05-21-93	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	10.73	0.00	31.11	09-03-93	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	11.23	0.00	30.61	11-02-93	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	6.67	0.00	35.17	02-19-94	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-5	41.84	9.61	0.00	32.23	05-17-94	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	10.58	0.00	31.26	08-20-94	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	10.66	0.00	31.18	10-19-94	Not sampled: well sampled annually, during the first quarter									--	--
MW-5	41.84	8.35	0.00	33.49	02-15-95	Not sampled									--	--
MW-5	41.84	9.95	0.00	31.89	05-23-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-5	41.84	10.51	0.00	31.33	08-23-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.79	NP		
MW-5	41.84	10.37	0.00	31.47	11-15-95	Not sampled: well sampled annually, during the second quarter									--	--
MW-5	41.84	9.35	0.00	32.49	02-01-96	<50	<0.5	<0.5	<0.5	<1	<3	--	1.0	NP		
MW-5	41.84	10.03	0.00	31.81	06-20-96	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	3.1	NP		
MW-5	41.84	9.89	0.00	31.95	11-05-96	Not sampled: well sampled annually, during the second quarter									--	--
MW-5	41.84	9.42	0.00	32.42	05-03-97	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	NP		
MW-5	41.84	10.55	0.00	31.29	10-02-97	Not sampled: well sampled annually, during the second quarter									--	--



**Table 1  
Groundwater Monitoring Data**

**ARCO Service Station No. 2035  
1001 San Pablo Avenue, Albany, California**

Well Number	TOC Elevation (ft.-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft.-MSL)	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8240/8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)	
MW-6	40.13	9.03	0.00	31.10	03-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
MW-6	40.13	12.45	0.00	27.68	05-23-91	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	40.13	13.32	0.00	26.81	08-21-91	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	40.13	14.13	0.00	26.00	11-08-91	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	40.13	11.86	0.00	28.27	02-26-92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
MW-6	40.13	12.35	0.00	27.78	04-21-92	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	40.13	13.18	0.00	26.95	08-14-92	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	40.13	11.94	0.00	28.19	12-09-92	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	40.13	13.10	0.00	27.03	03-26-93	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
MW-6	40.13	13.00	0.00	27.13	05-21-93	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	40.13	13.30	0.00	26.83	09-03-93	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	40.13	13.42	0.00	26.71	11-02-93	<50	<0.5	<0.5	<0.5	<0.5	19	--	--	--	
MW-6	40.13	10.57	0.00	29.56	02-19-94	<100	<1	<1	<1	<1	95	--	--	--	
MW-6	40.13	12.64	0.00	27.49	05-17-94	<100	<1	<1	<1	<1	180	--	--	--	
MW-6	40.13	13.13	0.00	27.00	08-20-94	<100	<1	<1	<1	<1	180	--	--	--	
MW-6	40.13	13.48	0.00	26.65	10-19-94	<100	<1	<1	<1	<1	180	--	--	--	
MW-6	40.13	11.92	0.00	28.21	02-15-95	<200	<2	<2	<2	<2	200	--	--	--	
MW-6	40.13	12.80	0.00	27.33	05-23-95	<50	<0.5	<0.5	<0.5	<0.5	120	--	--	--	
MW-6	40.13	13.03	0.00	27.10	08-23-95	<50	<0.5	<0.5	<0.5	<0.5	44	--	0.46	NP	
MW-6	40.13	12.70	0.00	27.43	11-15-95	<50	<0.5	<0.5	<0.5	<1	17	17	0.0	NP	
MW-6	40.13	8.61	0.00	31.52	02-01-96	<50	<0.5	<0.5	<0.5	<1	6	--	1.0	NP	
MW-6	40.13	12.88	0.00	27.25	06-20-96	<50.0	<0.500	<0.500	<0.500	<0.500	2.57	--	2.8	NP	
MW-6	40.13	12.74	0.00	27.39	11-05-96	<50.0	<0.500	<0.500	<0.500	<0.500	3.77	--	1.51	NP	
DUP	--	--	--	--	11-05-96	<50.0	<0.500	<0.500	<0.500	<0.500	4.03	--	--	--	
MW-6	40.13	11.29	0.00	28.84	05-03-97	<50.0	<0.500	<0.500	<0.500	<0.500	10.5	12.3	--	NP	
MW-6	40.13	11.35	0.00	28.78	10-02-97	<50	<0.50	<0.50	<0.50	<0.50	5.8	4.8	0.61	NP	

**Table 1  
Groundwater Monitoring Data**

**ARCO Service Station No. 2035  
1001 San Pablo Avenue, Albany, California**

Well Number	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft-MSL)	Date Sampled	TPHg ( $\mu\text{g/L}$ )	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	MTBE 8021B* ( $\mu\text{g/L}$ )	MTBE 8240/8260 ( $\mu\text{g/L}$ )	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)	
RW-1	40.33	9.32	0.01	31.02	03-23-91	11,000	560	660	150	1,700	--	--	--	--	
RW-1	40.33	9.75	0.03	30.60	05-23-91	Not sampled: well contained floating product								--	--
RW-1	40.33	10.86	0.02	29.48	08-21-91	Not sampled: well contained floating product								--	--
RW-1	40.33	20.61	0.00	19.72	11-08-91	1,600	79	46	13	240	--	--	--	--	
RW-1	40.33	16.56	0.00	23.77	02-26-92	210	44	7.5	2.5	24	29	--	--	--	
RW-1	40.33	9.65	0.00	30.68	04-21-92	36,000	7,400	3,700	580	3,400	<300	--	--	--	
RW-1	40.33	10.60	0.00	29.73	08-14-92	1,800	31	38	15	150	<30	--	--	--	
RW-1	40.33	8.72	0.00	31.61	12-09-92	25,000	1,900	1,000	330	3,200	<100	--	--	--	
RW-1	40.33	10.33	0.00	30.00	03-26-93	7,200	1,900	59	95	240	480	--	--	--	
RW-1	40.33	10.10	0.00	30.23	05-21-93	3,000	630	84	45	340	<60	--	--	--	
RW-1	40.33	10.42	0.00	29.91	09-03-93	7,100	120	55	14	160	<60	--	--	--	
RW-1	40.33	9.10	0.00	31.23	11-02-93	<200	14	19	3	19	140	--	--	--	
RW-1	40.33	7.49	0.00	32.84	02-19-94	3,800	1,000	85	64	220	950	--	--	--	
RW-1	40.33	8.90	0.00	31.43	05-17-94	<200	45	<2	2	4	220	--	--	--	
RW-1	40.33	11.06	0.00	29.27	08-20-94	480	200	<2	<2	30	180	--	--	--	
RW-1	40.33	11.12	0.00	29.21	10-19-94	110	36	2.9	<0.5	4.1	5	--	--	--	
RW-1	40.33	7.70	0.00	32.63	02-16-95	250	61	2	2	19	94	--	--	--	
RW-1	40.33	11.12	0.00	29.21	05-23-95	4,500	2,000	7	<2	180	35	--	--	--	
RW-1	40.33	10.15	0.00	30.18	08-23-95	2,600	1,100	6.3	2.3	17	39	--	0.52	NP	
RW-1	40.33	9.95	0.00	30.38	11-15-95	1,200	2,600	16	86	41	140	--	1.4	P	
RW-1	40.33	11.88	0.00	28.45	02-01-96	11,000	980	230	200	1,400	38	--	1.0	NP	
RW-1	40.33	9.83	0.00	30.50	06-20-96	899	278	<2.50	8.70	8.46	61.1	--	1.3	NP	
RW-1	40.33	8.45	0.00	31.88	11-05-96	156,000	3,260	28,800	4,570	25,700	26,200	--	0.63	P	
RW-1	40.33	8.57	0.00	31.76	05-03-97	244,000	8,420	56,000	5,660	36,200	23,400	11,000	--	P	
RW-1	40.33	9.13	0.00	31.20	10-02-97	120,000	2,500	33,000	3,800	21,000	3,300	--	0.38	P	

**Table 1  
Groundwater Monitoring Data**

**ARCO Service Station No. 2035  
1001 San Pablo Avenue, Albany, California**

Well Number	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft-MSL)	Date Sampled	TPHg ( $\mu\text{g/L}$ )	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethylbenzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	MTBE 8021B* ( $\mu\text{g/L}$ )	MTBE 8240/8260 ( $\mu\text{g/L}$ )	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
S-5	--	--	--	--	05-30-97	310,000	3,000	11,000	4,000	34,000	<2,500	--	--	--
S-5	--	10.00	--	--	10-02-97	70,000	1,800	7,800	1,400	20,000	<120	--	0.25	NP

TOC: top of casing

ft-MSL: elevation in feet, relative to mean sea level

TPH: total petroleum hydrocarbons as gasoline, California DHS LUFT Method

BTEX: benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 11/16/99).

MTBE: Methyl tert-butyl ether

$\mu\text{g/L}$ : micrograms per liter

mg/L: milligrams per liter

--: not analyzed or not applicable

<: denotes concentration not present at or above laboratory detection limit stated to the right.

[1] = Computed by adding correction factor to groundwater elevation. Correction factor = free product thickness times 0.73 (approximate specific gravity of gasoline).

\*: EPA method 8020 prior to 11/16/99

\*\* : For previous historical groundwater elevation and analytical data please refer to *Fourth Quarter 1995 Groundwater Monitoring Program Results and Remediation System Performance Evaluation Report, ARCO Service Station 2035, Albany, California*, (EMCON, March 25, 1996).

DUP: duplicate sample

Table 3  
 Historical Groundwater Analytical Data  
 Petroleum Hydrocarbons and Their Constituents  
 1994 - Present\*

ARCO Service Station 2035  
 1001 San Pablo Avenue, Albany, California

Date: 12-22-03

Well Designation	Water Sample Field Date	TPHC	Benzene	Toluene	Ethylbenzene	Total Xylenes	MIBC	MTBE	Oil and Grease SM 5520B&F	Oil and Grease SM 5520C	Oil and Grease SM 5520F	TPH	PHD
		µg/L LUFT Method	µg/L EPA 8020	µg/L EPA 8020	µg/L EPA 8020	µg/L EPA 8020	µg/L EPA 8020	µg/L EPA 8020	µg/L EPA 8240	µg/L	µg/L	µg/L	µg/L EPA 418.1
MW-1	01-31-90	<50	13	<0.5	0.5	0.6	--	--	--	--	--	--	--
MW-1	04-25-90	990	290	3.5	18	14	--	--	--	--	--	--	--
MW-1	07-28-90	760	280	<2.5	7.1	<2.5	--	--	--	--	--	--	--
MW-1	11-14-90	570	150	7.3	<2.5	30	--	--	--	--	--	--	--
MW-1	03-23-91	8800	3600	<50	62	99	--	--	--	--	--	--	--
MW-1	05-23-91	4800	2000	<20	52	<20	--	--	--	--	--	--	--
MW-1	08-21-91	780	310	<2.5	12	<2.5	14	--	--	--	--	--	--
MW-1	11-08-91	58	14	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-1	02-26-92	2700	930	12	18	32	51	--	--	--	--	--	--
MW-1	04-21-92	2700	1000	<10	22	<10	<60	--	--	--	--	--	--
MW-2	01-31-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-2	04-25-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-2	07-28-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-2	11-14-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-2	03-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-2	05-23-91	Not sampled: not scheduled for chemical analysis											
MW-2	08-21-91	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	--	--	--
MW-2	11-08-91	Not sampled: not scheduled for chemical analysis											
MW-2	02-26-92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	--	--	--
MW-2	04-21-92	Not sampled: not scheduled for chemical analysis											
MW-3	01-31-90	<50	1.9	<0.5	2.1	<0.5	--	--	--	<500	<500	--	--
MW-3	04-25-90	<50	1.1	<0.5	2.4	0.9	--	--	--	--	--	<600	--
MW-3	07-28-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	600	--
MW-3	11-14-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<500	--
MW-3	03-23-91	51	0.8	<0.5	2.4	<0.5	--	--	--	--	--	<500	--
MW-3	05-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<500	--
MW-3	08-21-91	<50	<0.5	<0.5	<0.5	<0.5	79	--	--	--	--	<500	--
MW-3	11-08-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	600	--
MW-3	02-26-92	120	3.6	<0.5	2.2	3.7	90	--	--	--	--	<0.5	--
MW-3	04-21-92	<50	<0.5	<0.5	<0.5	<0.5	90	--	--	--	--	--	--
MW-4	01-31-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-4	04-25-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-4	07-28-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-4	11-14-90	220	12	19	0.9	39	--	--	--	--	--	--	--
MW-4	03-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-4	05-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-4	08-21-91	<50	<0.5	<0.5	<0.5	<0.5	99	--	--	--	--	--	--
MW-4	11-08-91	<50	<0.5	<0.5	<0.5	<0.5	--	89	--	--	--	--	--
MW-4	02-26-92	<50	0.8	<0.5	<0.5	<0.5	<3	--	--	--	--	--	--
MW-4	04-21-92	Not sampled: not scheduled for chemical analysis											

Table 3  
 Historical Groundwater Analytical Data  
 Petroleum Hydrocarbons and Their Constituents  
 1994 - Present\*

ARCO Service Station 2035

1001 San Pablo Avenue, Albany, California

Date: 12-22-03

Well Designation	Water Sample Field Date	TPHG LUFT Method	Benzene EPA 8070	Toluene EPA 8020	Ethylbenzene EPA 8020	Total Xylenes EPA 8020	MTBE EPA 8020	MTBE EPA 8240	Oil and Grease SM 5520B&F	Oil and Grease SM 5520C	Oil and Grease SM 5520F	TPHH EPA 418.1	TPHD LUFT Method
MW-5	01-31-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-5	04-25-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-5	07-28-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-5	11-14-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-5	03-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-5	05-23-91	Not sampled; not scheduled for chemical analysis											
MW-5	08-21-91	Not sampled; not scheduled for chemical analysis											
MW-5	11-08-91	Not sampled; not scheduled for chemical analysis											
MW-5	02-26-92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	--	--	--
MW-5	04-21-92	Not sampled; not scheduled for chemical analysis											
MW-6	01-31-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-6	04-25-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-6	07-28-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-6	11-14-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-6	03-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-6	05-23-91	Not sampled; not scheduled for chemical analysis											
MW-6	08-21-91	Not sampled; not scheduled for chemical analysis											
MW-6	11-08-91	Not sampled; not scheduled for chemical analysis											
MW-6	02-26-92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	--	--	--
MW-6	04-21-92	Not sampled; not scheduled for chemical analysis											
RW-1	01-31-90	Not sampled; well connected to the remediation system											
RW-1	04-25-90	Not sampled; well contained floating product											
RW-1	07-28-90	Not sampled; well contained floating product											
RW-1	11-14-90	Not sampled; well contained floating product											
RW-1	03-23-91	11000	560	660	150	1700	--	--	--	--	--	--	--
RW-1	05-23-91	Not sampled; well contained floating product											
RW-1	08-21-91	Not sampled; well contained floating product											
RW-1	11-08-91	1600	79	46	13	240	--	--	--	--	--	--	--
RW-1	02-26-92	210	44	7.5	2.5	24	29	--	--	--	--	--	--
RW-1	04-21-92	3600	7400	3700	580	3400	<300	--	--	--	--	--	--

TPHG: Total petroleum hydrocarbons as gasoline, California DHS LUFT Method

µg/L: micrograms per liter

EPA: United States Environmental Protection Agency

MTBE: Methyl-tert-butyl ether

SM: standard method

TPHH: Total recoverable petroleum hydrocarbons

TPHD: Total petroleum hydrocarbons as diesel, California DHS LUFT Method

-- : not analyzed

\* For previous historical analytical data please refer to *Four Water 1990 Groundwater Monitoring Program Results and Remediation Performance Evaluation Report, ARCO Service Station 2035, Albany, California*, (EMLUL, March 23, 1996).

**APPENDIX D**

**GEOTRACKER UPLOAD CONFIRMATION**

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<b><u>Facility Global ID:</u></b>	T0600100081
<b><u>Facility Name:</u></b>	ARCO #02035
<b><u>Submittal Date/Time:</u></b>	6/21/2007 1:59:47 PM
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**Facility Global ID:** T0600100081

**Facility Name:** ARCO #02035

**Submittal Title:** 2Q07 GW Monitoring

**Submittal Type:** GW Monitoring Report

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<b>ARCO #02035</b> 1001 SAN PABLO ALBANY, CA 94706	<b>Regional Board - Case #: 01-0088</b> SAN FRANCISCO BAY RWQCB (REGION 2) <b>Local Agency (lead agency) - Case #: RO0000100</b> ALAMEDA COUNTY LOP - (SP)
--	---

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
7147624671	2Q07 GW Monitoring	Q2 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	6/21/2007	PENDING REVIEW

## SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	6
# 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	N

## 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	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

## WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
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 &gt; REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.