R0100

Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 6549
Moraga, California 94570
Phone: (925) 299-8891
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July 27, 2004

Alameda County
JUL 30 2004
Environmental Health

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Re: First Semi-Annual 2004 Groundwater Monitoring and Remediation System Operation & Maintenance Report
Atlantic Richfield Company Service #2035
1001 San Pablo Avenue
Albany, California
URS Project #38486712

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

Submitted by:

Paul Supple
Environmental Business Manager

URS

July 27, 2004

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Alameda County
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Environmental Health

Re: First Semi-Annual 2004 Groundwater Monitoring & Remediation System Operation & Maintenance Report
Atlantic Richfield Company Service Station #2035
1001 San Pablo Avenue
Albany, California
URS Project #38486712

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the *First Semi-Annual 2004 Groundwater Monitoring and Remediation System Operation and Maintenance Report* for the Atlantic Richfield Company Service Station #2035, which is located at 1001 San Pablo Avenue, Albany, California.

If you have any questions regarding this submission, please call me at (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

James F. Durkin, C.Hg.
Project Geologist

REGISTERED GEOLOGIST
JAMES F. DURKIN
No. 759
CERTIFIED HYDROGEOLOGIST
Exp. 2/28/05
STATE OF CALIFORNIA

Enclosure: First Semi-Annual 2004 Groundwater Monitoring and Remediation System Operation and Maintenance Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)
Barbara and James A. Lestrange, Property Owner, 6 La Canada Court, St. Helena, CA 94574
Muriel & Emile Turpin, Trustees, 2 La Canada Ct., Saint Helena CA 94574-1250
Mr. Robert Cave, BAAQMD – Permit Division, 939 Ellis St., San Francisco, CA 94109

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
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REPORT

FIRST SEMI-ANNUAL 2004 GROUNDWATER MONITORING AND REMEDIATION SYSTEM OPERATION AND MAINTENANCE

ATLANTIC RICHFIELD COMPANY
SERVICE STATION #2035
1001 SAN PABLO AVENUE
ALBANY, CALIFORNIA

Prepared for
Atlantic Richfield Company

July 27, 2004

URS
URS Corporation
1333 Broadway, Suite 300
Oakland, California 94612

38486712

Date: July 27, 2004
Period: 2Q 04

ATLANTIC RICHFIELD COMPANY SEMI-ANNUAL GROUNDWATER MONITORING AND REMEDIATION SYSTEM OPERATION AND MAINTENANCE REPORT

Facility No.:	2035	Address:	1001 San Pablo Avenue, Albany, California
RM Environmental Business Manager:			Paul Supple
Consulting Co./Contact Person:			URS Corporation / Scott Robinson
Consultant Project No.:			38486712
Primary Agency:			Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS PERIOD (Second – 2004):

1. Performed second quarter 2004 monitoring event on May 12, 2004.
2. Prepared First Semi-Annual 2004 Groundwater Monitoring and Remediation System Operation and Maintenance (O&M) Report.
3. Performed O&M of soil vapor extraction (SVE) system and air sparge (AS) remediation system.

WORK PROPOSED FOR NEXT PERIOD (Third – 2004):

1. Submit First Semi-Annual 2004 Groundwater Monitoring and Remediation System Operation and Maintenance Report.
2. Prepare and submit third quarter 2004 Quarterly Status Report.
3. Perform O&M of SVE system and AS remediation system.
4. Prepare and submit Remediation Treatment Modification proposal letter to ACEH.

Current Phase of Project:	Remediation/GW monitoring/sampling
Frequency of Groundwater Sampling:	Annually (4th quarter): MW-5 and MW-6 Semi-Annually (2nd /4th quarter): MW-1 through MW-4, RW-1, and S-5
Frequency of Groundwater Monitoring:	Semi-annual
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	AS/SVE
Approximate Depth to Groundwater:	9.28 (MW-1) to 12.68 (MW-6) feet
Groundwater Gradient (direction):	West
Groundwater Gradient (magnitude):	0.02 feet per foot
Equipment Inventory:	Therm Tech Model VAC-10 Thermal/Catalytic Oxidizer
Operating Mode:	Catalytic Oxidation
BAAQMD Permit #:	8694
TPH Conc. End of Period (lab):	NA (System shut down temporarily)
Benzene Conc. End of Period (lab):	NA (System shut down temporarily)
SVE Flowrate End of Period:	74 scfm
Total HC Destroyed This Period:	0.0 pounds NA (System shut down temporarily)

Total HC Destroyed to Date:	3,967 pounds
Utility Usage This Period	
Electric (kWh):	0
Gas (cu/ft):	0
Operating Hours This Period (SVE):	0
Operating Hours to Date (SVE):	23392 Hours
Percent Operational This Period (SVE):	0%
Unit Maintenance:	Currently optimizing SVE system performance
Number of Auto Shut Downs:	NA (System shut down temporarily)
Destruction Efficiency Permit Requirement:	98.5% (POC >2,000 ppmv); 97% (POC >200 ppmv); 90% (POC <200 ppmv)
Percent TPH Conversion:	NA (System shut down temporarily)
Average Stack Temperature:	652° F
Average SVE Source Flow:	52 scfm
Average SVE Process Flow:	78 scfm
Average Source Vacuum:	20 in of H_2O

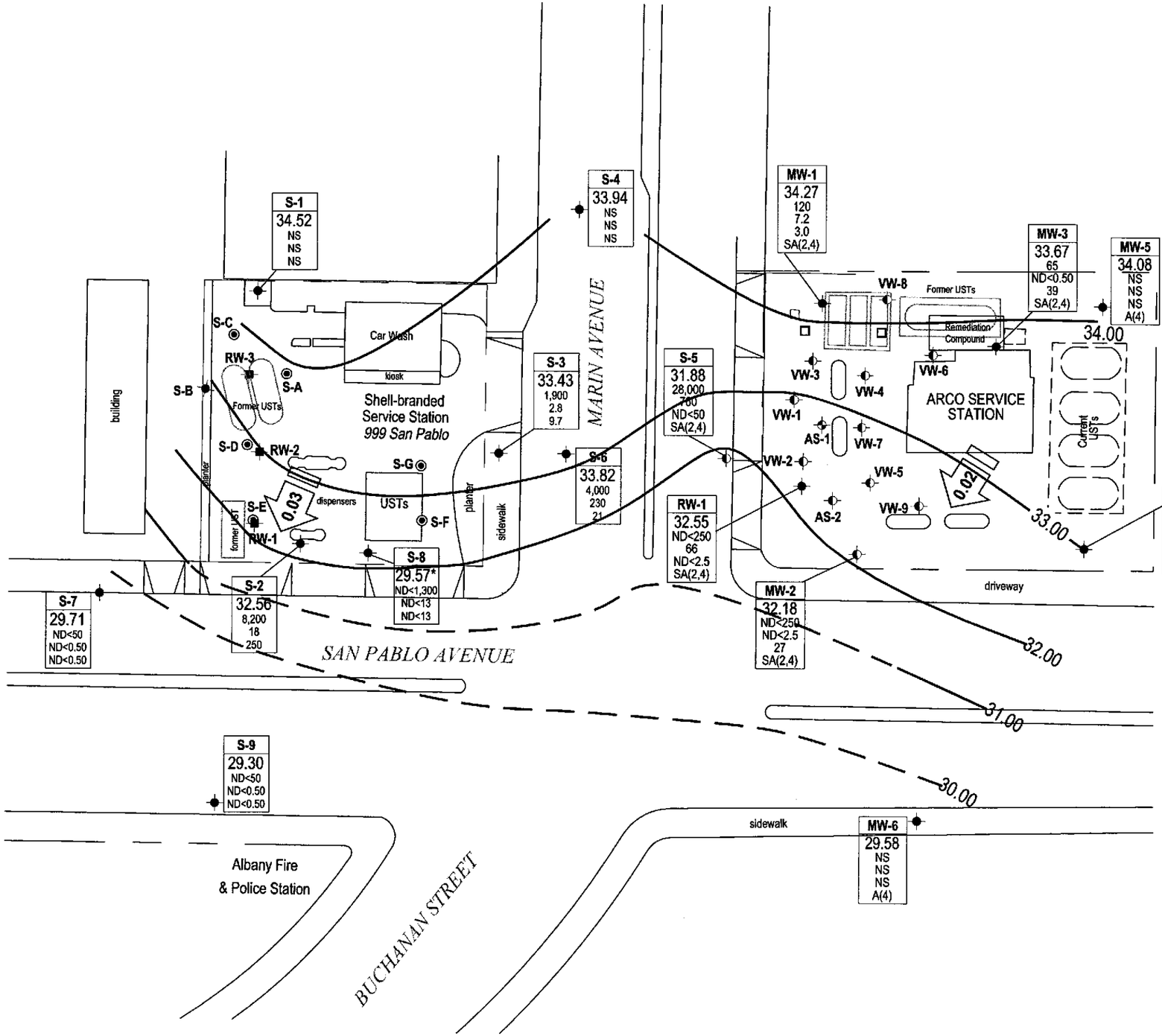
DISCUSSION:

Gasoline range organics (GRO) were detected above laboratory reporting limits in three of the six wells sampled this quarter at concentrations ranging from 65 µg/L (MW-3) to 28,000 µg/L (S-5). Benzene was detected above laboratory reporting limits in three wells at concentrations ranging from 7.2 µg/L (MW-1) to 760 µg/L (S-5). Methyl tert-butyl ether (MTBE) was detected above laboratory reporting limits in four wells at concentrations ranging from 3.0 µg/L (MW-1) to 79 µg/L (MW-4).

The SVE system remained shut down during this quarter due to low influent vapor concentrations and elevated water levels observed at the Site. Monthly depth to water monitoring was conducted at the Site. The monitoring results indicate that a majority of the well screens remain partly submerged under water. URS will continue to monitor depth to water levels at the Site. The system will be restarted when a majority of the well screens are above the water table. The monthly depth to water monitoring results are included in Table 1. URS also plans to submit a remediation treatment modification letter to ACEH proposing to shut down the treatment system permanently and treat groundwater by natural attenuation. The monthly depth to water monitoring will be discontinued upon receiving approval from ACEH.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – May 12, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Table 3 – Oxygenate Analytical Data
- Table 4 – SVE System Operational Uptime Information
- Table 5 – SVE System Fow Rate and Analytical Results of Air Samples
- Table 6 – SVE System Extraction Rates, Emission Rates, Destruction Efficiency and Mass Removed
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Historical Groundwater Data Tables
- Attachment D – Joint Monitoring Data
- Attachment E – EDCC Report and EDF/Geowell Submittal Confirmation
- Attachment F – O&M Field Data Sheets



EXPLANATION

- (Arco) Monitoring well
- (Arco) Vapor extraction well
- (Arco) Air sparge well
- Well designation
- ELEV — Groundwater elevation (ft above MSL)
- TPH-g, Benzene & MTBE — TPH-g, Benzene & MTBE concentrations in micrograms per liter (µg/L)
- A/SA — Sampling frequency
- NA — Not analyzed
- ND< — 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
- * — Not used in contouring
- 29.5 — Groundwater elevation contour (ft above MSL)
- 0.048 — Approximate groundwater flow direction and gradient (ft/ft)
- S-1 — (Shell) Monitoring well
- RW-1 — (Shell) Recovery well
- SB-1 — (Shell) Soil boring

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

N

0 20 40

Scale (ft)

URS	Project No. 38486319 Atlantic Richfield Company Service Station #2035 1001 San Pablo Avenue Albany, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Second Quarter 2004 (May 12, 2004)	FIGURE 1

Jul 23, 2004 - 3:30pm
X:\x_env_waste\BP GEM\Sites\Scott Robinson\Paul Supple\20351\Monitoring\Qtr. 2, 2004\Drawings\GWEC-AS_5-12.dwg

Table 1

Groundwater Elevation and Analytical Data

Atlantic Richfield Company Service Station No.2035
1001 San Pablo Ave., Albany, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (ppm)	Lab	pH	Comments
MW-1	4/11/2002	P	41.41	10.73	--	30.68	800	360	ND <5.0	ND <5.0	ND <5.0	ND <50	NA	--	--	
	11/27/2002	P	41.41	10.22	--	31.19	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.7	1.1	--	--	
	6/3/2003	--	41.41	9.14	--	32.27	1,700	430	ND <5.0	24	11	8.6	1.7	--	--	
	11/13/2003	P	43.55	10.17	--	33.38	--	<0.50	<0.50	<0.50	<0.50	0.95	2.3	SEQM	6.5	b
	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**	
MW-2	4/11/2002	P	40.38	11.05	--	29.33	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	24	NA	--	--	
	11/27/2002	P	40.38	10.51	--	29.87	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	5.4	2.6	--	--	
	6/3/2003	--	40.38	9.78	--	30.60	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	23	1.7	--	--	
	11/13/2003	P	42.52	10.69	--	31.83	--	<0.50	<0.50	<0.50	<0.50	9.5	2.3	SEQM	6.5	b
	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**	
MW-3	4/11/2002	P	41.44	11.05	--	30.39	250	9.4	ND <0.50	ND <0.50	ND <0.50	120	NA	--	--	
	11/27/2002	P	41.44	10.49	--	30.95	ND <100	ND <1.0	ND <1.0	ND <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	--	<0.50	<0.50	<0.50	<0.50	36	3.8	SEQM	6.8	b
	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**	
MW-4	4/11/2002	NP	40.33	10.81	--	29.52	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	11	NA	--	--	
	11/27/2002	NP	40.33	10.09	--	30.24	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <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	--	<0.50	<0.50	<0.50	<0.50	20	1.3	SEQM	6.2	b
	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**	
MW-5	4/11/2002	NP	41.84	10.63	--	31.21	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <5.0	NA	--	--	
	11/27/2002	NP	41.84	10.65	--	31.19	NS	NS	NS	NS	NS	--	NA	--	--	
	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	--	<0.50	<0.50	<0.50	<0.50	0.79	1.4	SEQM	5.7	b
	05/12/2004	**--**	**44.03**	**9.95**	**--**	**34.08**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	4/11/2002	NP	40.13	11.42	--	28.71	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <5.0	NA	--	--	
	11/27/2002	NP	40.13	13.11	--	27.02	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.3	--	--	
	6/3/2003	--	40.13	12.48	--	27.65	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.1	--	--	
	11/13/2003	NP	42.26	13.11	--	29.15	--	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	SEQM	6.8	b
	05/12/2004	**--**	**42.26**	**12.68**	**--**	**29.58**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

Table 1

Groundwater Elevation and Analytical Data

Atlantic Richfield Company Service Station No.2035
1001 San Pablo Ave., Albany, CA

Well No.	Date	P/ NP	Well Elevation/ TOC (feet)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (ppm)	Lab	pH	Comments
RW-1	4/11/2002	P	40.33	9.20	--	31.13	15,000	750	2,000	380	2,000	1,500	NA	--	--	
	11/27/2002	P	40.33	10.31	--	30.02	ND	720	ND <25	ND <25	ND <25	ND <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	--	29	<0.50	<0.50	<0.50	44	1.3	SEQM	6.6	odor, b
	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**	**odor**
S-5	4/11/2002	P	40.33	10.17	--	--	30,000	390	1,400	410	7,400	ND <500	NA	--	--	
	11/27/2002	P	40.33	9.77	--	--	55,000	1,300	450	1,400	13,000	ND <50	4.3	--	--	
	6/3/2003	--	40.33	9.03	--	--	44,000	680	260	1,100	9,900	<25	1.9	--	--	
	6/3/2003	--	40.33	9.12	--	--	--	--	--	--	--	--	1.4	--	--	
	11/13/2003	P	41.83	9.12	--	32.71	--	520	120	690	5,900	<50	1.4	SEQM	6.5	odor, b
	05/12/2004	**P**	**41.83**	**9.95**	**--**	**31.88**	**28,000**	**760**	**79**	**910**	**5,000**	**<50**	**1.9**	**SEQM**	**6.6**	

Note: First and third quarter not monitored or sampled
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B
GRO = Gasoline Range Organics, analyzed using EPA Method 8260B
TPH-g = Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015, Modified
MTBE = Methyl tertiary butyl ether
DO = Dissolved Oxygen
ug/L = Micrograms per liter
mg/L = Milligrams per liter
P = Purged
NP = Not Purged
MSL = Mean sea level
bgs = below ground surface
TOC = Top of casing
< = Not detected at or above specified laboratory method detection limit
NS = Not sampled
NA = Not Available
a = Well elevation data obtained from historical groundwater elevation tables, Attachment D
b = Site resurveyed by URS on 10/15/03 to NAVD '88

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g has been changed to GRO. The resulting data may be impacted by the potential inclusion of non 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.

Source: The data within this table collected prior to November 2002 was provided to URS by Atlantic Richfield Company and their previous consultants. URS has not verified the accuracy of this information.

Table 2

Fuel Additives Analytical Data

Atlantic Richfield Company Service Station No.2035
1001 San Pablo Ave., Albany, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	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**
MW-2	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**
MW-3	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**
MW-4	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**
MW-5	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	--	--
MW-6	6/3/2003	<100	<20	ND <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	--	--
RW-1	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**
S-5	6/3/2003	<5,000	<1,000	--	<25	<25	<25	<25	<25
	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**

TBA = tert-Butyl alcohol
MTBE = Methyl tert-butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert butyl ether
TAME = tert-Amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
ug/L = micrograms per liter
< = Not Detected below laboratory detection limits

Table 3

Groundwater Gradient Data

Atlantic Richfield Company Service Station No.2035
1001 San Pablo Ave., Albany, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
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 (offsite 0.048)
5/12/2004	**West**	**0.025**

Source:
The data within this table collected prior to November 2002 was provided to URS by Remediation Management and their previous consultants. URS has not verified the accuracy of this information.

Table 4
Soil Vapor Extraction System
Operational Uptime Information

Atlantic Richfield Company Service Station #2035
1001 San Pablo Avenue, Albany, California

Date	Period Operation					Cumulative Operation				
	Meter (hours)	Total (days)	Uptime (days)	Downtime (days)	Uptime (%)	Total (days)	Uptime (days)	Downtime (days)	Uptime (%)	Total Operating Time (hours)
11/01/97						1425	335	1090	24%	6873
12/01/97	11484	30	14	16	47	1455	349	1106	24%	7211
01/27/98	11484	57	0	57	0	1512	349	1163	23%	7211
08/12/98	11484	197	0	197	0	1709	349	1360	20%	7211
09/02/98	11485	21	0	21	0	1730	349	1381	20%	7211
10/19/98	12280	47	33	14	70	1777	382	1395	22%	8006
11/10/98	12809	22	22	0	100	1799	404	1395	22%	8536
01/22/99	12809	73	0	73	0	1872	404	1468	22%	8536
02/11/99	12810	20	0	20	0	1892	404	1488	21%	8536
04/01/99	12810	49	0	49	0	1941	404	1537	21%	8536
06/10/99	12810	70	0	70	0	2011	404	1607	20%	8537
06/24/99	13146	14	14	0	100	2025	418	1607	21%	8873
08/17/99	13146	54	0	54	0	2079	418	1661	20%	8873
09/09/99	13147	23	0	23	0	2102	418	1684	20%	8873
09/21/99	13435	12	12	0	100	2114	430	1684	20%	9162
10/06/99	13450	15	1	14	4	2129	431	1698	20%	9177
10/20/99	13475	14	1	13	7	2143	432	1711	20%	9202
11/03/99	13812	14	14	0	100	2157	446	1711	21%	9538
11/17/99	14148	14	14	0	100	2171	460	1711	21%	9875
12/01/99	14391	14	10	4	72	2185	470	1715	22%	10118
12/16/99	14751	15	15	0	100	2200	485	1715	22%	10478
01/05/00	14751	20	0	20	0	2220	485	1735	22%	10478
01/19/00	15087	14	14	0	100	2234	499	1735	22%	10814
02/21/00	15087	33	0	33	0	2267	499	1768	22%	10814
03/01/00	15303	9	9	0	100	2276	508	1768	22%	11030
03/23/00	15831	22	22	0	100	2298	530	1768	23%	11557

Table 4
Soil Vapor Extraction System
Operational Uptime Information

Atlantic Richfield Company Service Station #2035
1001 San Pablo Avenue, Albany, California

Date	Period Operation					Cumulative Operation				
	Meter (hours)	Total (days)	Uptime (days)	Downtime (days)	Uptime (%)	Total (days)	Uptime (days)	Downtime (days)	Uptime (%)	Total Operating Time (hours)
10/17/00	15832	208	0	208	0	2506	530	1976	21%	11559
10/24/00	15998	7	7	0	99	2513	537	1976	21%	11725
11/13/00	16319	20	13	7	67	2533	551	1982	22%	12045
11/28/00	16319	15	0	15	0	2548	551	1997	22%	12046
12/20/00	16319	22	0	22	0	2570	551	2019	21%	12046
01/17/01	16324	28	0	28	1	2598	551	2047	21%	12050
02/14/01	16346	28	1	27	3	2626	552	2074	21%	12072
02/26/01	16458	12	5	7	39	2638	556	2082	21%	12185
03/13/01	16466	15	0	15	2	2653	557	2096	21%	12193
03/30/01	16872	17	17	0	99	2670	574	2096	21%	12599
04/19/01	17029	20	7	13	33	2690	580	2110	22%	12756
04/30/01	17292	11	11	0	99	2701	591	2110	22%	13018
05/14/01	17601	14	13	1	92	2715	604	2111	22%	13327
05/22/01	17793	8	8	0	100	2723	612	2111	22%	13520
06/05/01	18126	14	14	0	99	2737	626	2111	23%	13852
06/25/01	18305	20	7	13	37	2757	633	2124	23%	14032
07/06/01	18569	11	11	0	100	2768	644	2124	23%	14296
07/18/01	18856	12	12	0	100	2780	656	2124	24%	14583
07/31/01	19166	13	13	0	99	2793	669	2124	24%	14893
08/09/01	19388	9	9	0	103	2802	643	2159	23%	15115
08/23/01	19720	14	14	0	99	2816	656	2160	23%	15447
09/05/01	20029	13	13	0	99	2829	655	2174	23%	15756
09/17/01	20321	12	12	0	101	2841	668	2173	23%	16048
09/24/01	20420	7	4	3	59	2848	672	2176	24%	16146
10/01/01	20425	7	0	7	3	2855	672	2183	24%	16152

Table 4
Soil Vapor Extraction System
Operational Uptime Information

Atlantic Richfield Company Service Station #2035
1001 San Pablo Avenue, Albany, California

Date	Period Operation					Cumulative Operation				
	Meter (hours)	Total (days)	Uptime (days)	Downtime (days)	Uptime (%)	Total (days)	Uptime (days)	Downtime (days)	Uptime (%)	Total Operating Time (hours)
10/09/01	20621	8	8	0	102	2863	680	2183	24%	16347
10/15/01	20762	6	6	0	98	2869	686	2183	24%	16489
11/07/01	21320	23	23	0	101	2892	709	2183	25%	17047
11/21/01	21650	14	14	0	98	2906	723	2183	25%	17377
12/05/01	21986	14	14	0	100	2920	737	2183	25%	17713
12/27/01	22514	22	22	0	100	2942	759	2183	26%	18241
01/09/02	22516	13	0	13	1	2955	759	2196	26%	18242
01/21/02	22803	12	12	0	100	2967	771	2196	26%	18530
02/05/02	23063	15	11	4	72	2982	782	2200	26%	18789
07/01/03	23888	512	34	477	7	3494	816	2677	23%	19615
07/08/03	24056	7	7	0	99	3501	823	2677	24%	19782
07/22/03	24389	14	14	0	100	3514	837	2677	24%	20116
08/05/03	24721	14	14	0	100	3528	851	2677	24%	20447
09/09/03	25231	35	21	13	61	3563	872	2691	24%	20958
09/23/03	25554	14	13	1	96	3577	886	2691	25%	21280
10/24/03	26105	31	23	8	74	3608	909	2699	25%	21831
11/19/03	26278	26	7	19	28	3634	916	2718	25%	22005
11/26/03	26323	7	2	5	27	3641	918	2723	25%	22050
12/09/03	26636	13	13	0	100	3654	931	2723	25%	22362
12/22/03	26657	13	1	12	7	3667	932	2735	25%	22383
01/09/04	**26896**	**18**	**10**	**8**	**55**	**3685**	**942**	**2743**	**26%**	**22622**
01/30/04	**27405**	**21**	**21**	**0**	**101**	**3706**	**963**	**2743**	**26%**	**23131**
02/10/04	**27666**	**11**	**11**	**0**	**99**	**3717**	**974**	**2743**	**26%**	**23392**

Source: The data within this table collected prior to June 2002 was provided to URS by Atlantic Richfield Company and their previous consultants. URS has not verified the accuracy of this information.

Table 5
Soil Vapor Extraction System
Flow Rates and Analytical Results of Air Samples

Atlantic Richfield Company Service Station #2035
1001 San Pablo Avenue, Albany, California

Date	Sample Location	Vacuum (in H_2O)	Velocity /Actual Flow (fpm*/acfm)	Flowrate[1, 2, 3] (scfm)	Hydrocarbon Concentrations (ppmv)					
					TPHg	Benzene	Toluene	Ethylbenzene	Xylene	MTBE
12/01/97	Influent			221	160	0.6	ND<0.1	1.6	2.5	
	Effluent				8	ND<0.1	0.1	ND<0.1	0.3	
01/27/98	Influent	NA	NA	NA	NA	NA	NA	NA	NA	
	Effluent									
08/12/98	Influent	NA	NA	NA	NA	NA	NA	NA	NA	
	Effluent									
09/02/98	Influent	30.0	600	27	610	ND<1	ND<1	2	3	
	Effluent		1050	92	9	ND<0.1	ND<0.1	0.1	ND<0.2	
10/19/98	Influent	20.0	500	23	64	ND<0.1	0.7	ND<0.1	ND<0.2	
	Effluent		1200	106	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.2	
11/10/98	Influent	20.0	500	23	8	ND<0.1	0.1	ND<0.1	ND<0.2	
	Effluent		1200	106	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.2	
06/10/99	Influent	35.0	1500	67	100	0.5	3	ND<0.1	0.9	ND<1
	Effluent		975	75	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.2	ND<1
09/09/99	Influent	15.4	1900	90	ND<49	0.7	1.1	ND<0.1	ND<0.2	33
	Effluent		1200	92	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.2	ND<0.8
10/06/99	Influent	16.0	1825	86	240	1	2.9	ND<0.1	0.7	67
	Effluent		900	69	9	ND<0.1	0.1	0.1	ND<0.2	ND<0.8
12/01/99	Influent	11.0	1900	91	210	0.7	0.8	ND<0.2	0.2	61
	Effluent		1500	115	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.2	1.4
01/05/00	Influent	9.8	800	38	90	0.4	0.7	0.1	ND<0.2	33
	Effluent		1450	111	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.2	ND<0.8
03/01/00	Influent	9.8	2000	96	54	1.3	4.8	1.1	7.2	19
	Effluent		1500	115	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.2	ND<0.8
10/17/00	Influent	10.0	--	27	77	1.4	1.8	0.33	1.4	20
	Effluent		--	103	6.0	0.044	0.16	0.055	0.38	0.59

Table 5
Soil Vapor Extraction System
Flow Rates and Analytical Results of Air Samples

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

Date	Sample Location	Vacuum (in. H20)	Velocity /Actual Flow (fpm/acfm)	Flowrate[1,2] (scfm)	Hydrocarbon Concentrations (ppmv) TPHg	Benzene	Toluene	Ethylbenzene	Xylene	MTBE
02/26/01	Influent	60.0	180	153	50.4	0.850	3.84	0.390	2.02	11.6
	Effluent		180	153	ND<2.84	ND<0.0314	0.0769	ND<0.0230	0.754	0.132
04/19/01	Influent	45.0	124	110	180	2.0	2.6	0.25	2.0	ND<1.5
	Effluent		124	110	ND<10.0	ND<0.15	0.24	ND<0.15	0.79	ND<1.5
05/14/01	Influent	40.0	76	69	41.0	0.511	0.299	0.0357	0.293	0.492
	Effluent		76	69	ND<2.84	ND<0.0314	ND<0.0266	ND<0.0230	ND<0.0230	ND<0.111
06/05/01	Influent	45.0	108	96	6.6	ND<0.31	0.41	0.072	0.32	2.2
	Effluent		108	96	ND<2.4	ND<0.31	ND<0.027	ND<0.023	0.068	ND<0.14
08/09/01	Influent	40.0	98.5	89	4.3	0.034	0.19	ND<0.024	0.15	0.20
	Effluent		98.5	89	ND<2.8	ND<0.032	0.026	ND<0.024	0.13	ND<0.11
09/05/01	Influent	50.0	113	99	5.2	0.038	0.39	0.025	0.14	0.83
	Effluent		113	99	ND<2.8	ND<0.032	ND<0.026	ND<0.024	0.027	ND<0.11
10/01/01	Influent	40.0	218	197	31	0.23	0.56	0.077	0.30	2.1
	Effluent		218	197	ND<2.8	ND<0.032	0.071	ND<0.024	0.036	ND<0.11
11/07/01	Influent	48.0	221	195	6.4	ND<0.032	0.33	0.029	0.14	1.4
	Effluent		221	195	ND<2.8	ND<0.032	ND<0.026	ND<0.024	ND<0.024	ND<0.11
12/05/01	Influent	61.0	200	170	7.5	0.16	0.52	ND<0.024	0.11	
	Effluent		200	170	ND<2.8	ND<0.032	ND<0.026	ND<0.024	ND<0.024	
01/09/02	Influent	65.0	203	171	45	0.52	2.4	0.22	1.3	5.6
	Effluent		203	171	ND<2.8	ND<0.032	0.049	ND<0.024	0.052	ND<0.11
02/05/02	Influent	64.0	200	169	23	0.16	1.4	0.15	0.84	4.8
	Effluent		200	169	ND<2.8	ND<0.032	0.076	ND<0.024	0.059	ND<0.11
04/02/02	Influent	NA	NA	NA	45	0.38	1.00	0.18	1.50	20.00
	Effluent		NA	NA	ND<2.4	ND<0.031	ND<0.027	ND<0.023	0.05	ND<0.14
08/05/03	**Influent**	**25**	**1200**	**37**	**ND<2.4**	**ND<0.031**	**0.035**	**ND<0.023**	**0.040**	**ND<0.14**
	Effluent		**2200**	**60**	**ND<2.4**	**ND<0.031**	**ND<0.027**	**ND<0.023**	**0.087**	**ND<0.14**
09/23/03	**Influent**	**20**	**1400**	**43**	**ND<2.4**	**0.039**	**ND<0.027**	**ND<0.023**	**ND<0.047**	**ND<0.14**
	Effluent		**2250**	**95**	**ND<2.4**	**ND<0.031**	**ND<0.027**	**ND<0.023**	**ND<0.047**	**ND<0.14**

Table 5
Soil Vapor Extraction System
Flow Rates and Analytical Results of Air Samples

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

Date	Sample Location	Vacuum (in H_2O)	Velocity /Actual Flow (fpm*/acfm)	Flowrate[1,2,3] (scfm)	Hydrocarbon Concentrations (ppmv)					
					TPHg	Benzene	Toluene	Ethylbenzene	Xylene	MTBE
10/24/03	Influent	10	NA**	NA	13	0.23	0.045	ND<0.023	0.071	0.27
	Effluent		NA**	NA	ND<2.4	ND<0.031	ND<0.027	ND<0.023	0.048	ND<0.14
12/09/03	Influent	25	1700	75	ND<9.8	ND<0.31	ND<0.27	ND<0.23	ND<0.23	ND<0.14
	Effluent		2700	79	ND<9.8	ND<0.31	ND<0.27	ND<0.23	ND<0.23	ND<0.14
01/09/04	**Influent**	**20**	**1600**	**74**	**ND<9.8**	**ND<0.031**	**0.055**	**ND<0.045**	**0.11**	**ND<0.055**
	Effluent		**3600**	**74**	**ND<9.8**	**ND<0.031**	**0.028**	**ND<0.045**	**ND<0.068**	**ND<0.055**

[1] Influent Flow Rate previous to 10/17/00, cfm = (Velocity, fpm)(Influent Pipe Area, sq. ft.)(406.8 in.H20 - Vacuum, in.H20) / (406.8 in.H20)
where Influent Pipe Diameter = 3"
Effluent Flow Rate, cfm = (Velocity, fpm)(Effluent Pipe Area, sq.ft.)[(460° R + 77° F) / (460° R + Vapor Temp F)]

[2] Influent Flow Rate 10/17/00 to 4/2/02 cfm = (Actual flow, acfm)(406.8 in.H20 - Vacuum, in.H20) / (406.8 in.H20)

Effluent Flow Rate 10/17/00 to 4/2/02 scfm = (Actual flow, acfm)[(460° R + 77° F) / (460° R + Vapor Temp F)]

[3] Influent Flow Rate 08/05/03 to present, scfm = $128.8 * K * D^2 * \{[(14.7 \text{ in psi - Vacuum Pressure, psi}) * (\text{Pressure Differtial, in } H_2O))/ (460^\circ R + T^\circ F) * Ss]^{1/2}\}$

Effluent Flow Rate 10/17/00 to present, scfm = (Actual flow, acfm)[(460° R + 77° F) / (460° R + Vapor Temp F)]
when dilution valve is open. If dilution valve is closed, influent flow = effluent flow

Where: K = Flow Coefficient (0.645 for 3" Schedule 40 PVC Pipe)
T = Temperature at Blower (100 °F)
Ss = Specific Gravity of Gas at 60 oF (Estimated as air at 1 for low concentration of other constituents)

* Reported in feet per minute (ft/min) with exception of February 2001 through February 2002 that reported in cubic feet per minute (acfm)
** Gage broken, reading not taken.

ND< = Not detected at or above the specified laboratory reporting limit
NA = Not Analyzed/ Not Measured

Source: The data within this table collected prior to June 2002 was provided to URS by Atlantic Richfield Company and their previous consultants. URS has not verified the accuracy of this information.

Table 6
Soil Vapor Extraction System
Extraction Rates, Emission Rates, Destruction Efficiency, and Mass Removed

Atlantic Richfield Company Service Station #2035
1001 San Pablo Avenue, Albany, California

Date	Extraction Rate from Wellfield[1]		Emission Rate to Atmosphere[2]		Destruction Efficiency[3]		Period Removal[4]		Cumulative Removal	
	TPHg (lbs/day)	Benzene (lbs/day)	TPHg (lbs/day)	Benzene (lbs/day)	TPHg (%)	Benzene (%)	TPHg (lbs)	Benzene (lbs)	TPHg (lbs)	Benzene (lbs)
12/01/97	13.0	0.0381	0.651	ND<0.0064	95	NC	183.3	0.5	3022.6	250.5
09/02/98	6.11	0.0000	0.306	ND<0.0027	95	NC	0.1	0.0	3022.7	250.5
10/19/98	0.55	0.0000	ND<0.196	ND<0.0031	NC	NC	18.2	0.0	3040.8	250.5
11/10/98	0.07	0.0000	ND<0.196	ND<0.0031	NC	NC	1.5	0.0	3042.3	250.5
06/10/99	2.47	0.0097	ND<0.0138	ND<0.0021	NC	NC	0.1	0.0	3042.4	250.5
09/09/99	1.61	0.0180	ND<0.0169	ND<0.0026	NC	NC	22.6	0.3	3065.0	250.8
10/06/99	7.59	0.0247	0.229	ND<0.0020	97.00	NC	95.9	0.3	3160.9	251.1
12/01/99	7.00	0.0182	ND<0.212	ND<0.0033	NC	NC	274.4	0.7	3435.3	251.8
01/05/00	1.27	0.0044	ND<0.205	ND<0.0032	NC	NC	19.0	0.1	3454.3	251.9
03/01/00	1.90	0.0357	ND<0.212	ND<0.0033	NC	NC	43.7	0.8	3498.0	252.7
10/17/00	0.77	0.0110	ND<0.226	ND<0.0013	71	88	17.0	0.2	3515.0	252.9
02/26/01	2.84	0.0374	ND<0.160	ND<0.0014	NC	NC	74.1	1.0	3589.2	253.9
04/19/01	7.29	0.0633	ND<0.405	ND<0.0047	NC	NC	173.6	1.5	3762.8	255.4
05/14/01	1.03	0.0100	ND<0.0715	ND<0.0006	NC	NC	24.6	0.2	3787.4	255.7
06/25/01	0.23	ND<0.0085	ND<0.0847	ND<0.0085	NC	NC	6.8	0.3	3794.2	255.9
08/09/01	0.14	0.0009	ND<0.0914	ND<0.0008	NC	NC	6.3	0.0	3800.5	256.0
09/05/01	0.19	0.0011	ND<0.1020	ND<0.0009	NC	NC	5.1	0.0	3805.6	256.0
10/01/01	2.24	0.0130	ND<0.2022	ND<0.0018	NC	NC	36.9	0.2	3842.5	256.2
11/07/01	0.46	0.0018	ND<0.2005	ND<0.0018	NC	NC	17.1	0.1	3859.6	256.3
12/05/01	0.47	0.0078	ND<0.1749	ND<0.0016	NC	NC	13.0	0.2	3872.6	256.5
01/09/02	2.82	0.0255	ND<0.1755	ND<0.0016	NC	NC	62.2	0.6	3934.8	257.0
02/05/02	1.42	0.0077	ND<0.1734	ND<0.0015	NC	NC	32.5	0.2	3967.3	257.2
08/05/03	0.00	0.0000	ND<2.4	ND<0.031	NC	NC	0.0	0.0	3967.3	257.2
09/23/03	0.00	0.0005	ND<2.4	ND<0.031	NC	NC	0.0	0.3	3967.3	257.5
10/24/03	NC	NC	ND<2.4	ND<0.031	NC	NC	NC	NC	3967.3	257.5
12/09/03	0.00	0.0000	ND<2.5	ND<0.031	NC	NC	0.0	0.0	3967.3	257.5
01/09/04	**0.00**	**0.0000**	**ND<9.8**	**ND<0.031**	**NC**	**NC**	**0.0**	**0.0**	**3967.3**	**257.5**

Table 6
Soil Vapor Extraction System
Extraction Rates, Emission Rates, Destruction Efficiency, and Mass Removed

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

[1] Extraction Rate, lbs/day = (Influent Flow, cfm)(Influent conc., ppmv)(g/mole)(60 min/hr)(24 hr/day)(28.3 L/cf) / (10^6)(24.45 moles/L)(453.6 g/lb)
where TPHg = 100 g/mole and Benzene = 78.1 g/mole; Influent conc. = 0, if reported as non-detect

[2] Emission Rate, lbs/day = (Effluent Flow, cfm)(Effluent conc., ppmv)(g/mole)(60 min/hr)(24 hr/day)(28.3 L/cf) / (10^6)(24.45 moles/L)(453.6 g/lb)
where TPHg = 100 g/mole and Benzene = 78.1 g/mole; Effluent conc. = Method Reporting Limit, if reported as non-detect

[3] Destruction Efficiency, % = (Extraction Rate - Emission Rate)(100) / (Extraction Rate); NC = Not Calculated due to non-detection.

[4] Period Removal, lbs = (Extraction Rate)(Uptime)

NC = Not Calculated

ND< = Not detected at or above the specified laboratory reporting limit

Source: The data within this table collected prior to June 2002 was provided to URS by Atlantic Richfield Company and their previous consultants. URS has not verified the accuracy of this information.

ATTACHMENT A

FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

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

WELL GAUGING DATA

Project # 040512-AC2 Date 5/12/04 Client URS 2035

Site 1001 San Pablo Ave., Albany

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4					9.28	29.66		
MW-2	4					10.34	28.68		
MW-3	4					9.95	32.98		
MW-4	4					9.48	25.02		
MW-5	4					9.95	24.30		G.O.
MW-6	2					12.68	24.24		G.O.
RW-1	6					9.80	25.44		
S-5	3					9.95	24.30	↓	Tr.

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040512-PC2	Station # 2035
Sampler: PC	Date: 5/12/04
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 29.66	Depth to Water: 9.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / (Electric Submersible) / Extraction Pump / Other: ___

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ___

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

13 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 39 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1445	69.5	6.5	701	13	clear
1448	68.4	6.4	719	26	↓
1451	69.5	6.6	732	39	

Did well dewater? Yes (No) Gallons actually evacuated: 39

Sampling Time: 1500 Sampling Date: 5/12

Sample I.D.: MW-1 Laboratory: Pace Sequoia Other ___

Analyzed for: (TPH-G BTEX) MTBE TPH-D Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 2035	Station # 2035
Sampler: PC	Date: 5/12/04
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 28.68	Depth to Water: 10.34
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / (X) Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / (X) Disposable Bailer / Extraction Port / Other: ___

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

11.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 35.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or ~~µS~~)	Gals. Removed	Observations
1527	66.9	6.6	721	12	clear
1530	66.9	6.6	724	24	↓
1537	66.8	6.6	726	36	

Did well dewater? Yes (No) Gallons actually evacuated: 36

Sampling Time: 1540 Sampling Date: 5/12/04

Sample I.D.: MW-2 Laboratory: Pace ~~Segiora~~ Other ___

Analyzed for: ~~TPH-G~~ ~~BTEX~~ MTBE TPH-D Other: See COC

D.O. (if req'd):	Pre-purge:	mg/L	~~Post-purge~~:	2.2	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040512-PC2	Station # 2035
Sampler: PC	Date: 5/12/04
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 32.98	Depth to Water: 9.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

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

Sampling Method:
- Bailer
- Disposable Bailer
- Extraction Port
- Other: ___

Top of Screen: ___

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

15 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 45 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or ~~uS~~)	Gals. Removed	Observations
1508	65.6	6.8	608	15	cloudy
1512	64.9	6.9	601	30	"
1515	65.5	6.9	600	45	"

Did well dewater? Yes (No) Gallons actually evacuated: 45

Sampling Time: 1522 Sampling Date: 5/12/04

Sample I.D.: MW-3 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	4.2 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040512-PCE	Station # 2035
Sampler: PC	Date: 5/12/04
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 25.02	Depth to Water: 9.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / (Electric Submersible) / Extraction Pump / Other: ___

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ___

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

10 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 30 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or ~~µS~~)	Gals. Removed	Observations
1427	69.8	6.8	444	10	cloudy
1430	69.0	6.6	494	20	↓
1432	70.4	6.6	463	30	↓

Did well dewater? Yes (No) Gallons actually evacuated: 30

Sampling Time: 1440 Sampling Date: 5/12/04

Sample I.D.: MW-4 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.9	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040512-PC2	Station # 2035
Sampler: PC	Date: 5/12/04
Well I.D.: RW-1	Well Diameter: 2 3 4 6 8
Total Well Depth: 25.44	Depth to Water: 9.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

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

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Other: _____

Top of Screen: _____

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

23 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 69 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1549	68.0	6.7	659	23	odor
1554	68.6	6.9	701	46	↓
1558	68.6	6.9	684	69	↓

Did well dewater? Yes No Gallons actually evacuated: 69

Sampling Time: 1608 Sampling Date: 5/12/04

Sample I.D.: RW-1 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.9	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040512-PC2	Station # 2035
Sampler: PC	Date: 5/12/04
Well I.D.: S-5	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 15.64	Depth to Water: 9.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer (Disposable Bailer) Positive Air Displacement Electric Submersible Extraction Pump Other: ___

Sampling Method: Bailer (Disposable Bailer) Extraction Port Other: ___

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

2.3 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6.9 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1305	66.1	7.1	609	2.3	grey
1308	well dewatered @ 4 gal.				
1318	65.0	6.6	623	—	

Did well dewater? (Yes) No Gallons actually evacuated: 4

Sampling Time: 1318 Sampling Date: 5/12/04

Sample I.D.: S-5 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: see COC

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge:)	1.9	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

BP GEM OIL COMPANY TYPE **A** BILL OF LADING

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

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

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

2035
Station #

1001 San Pablo Ave., Albany
Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

235

added equip. rinse water 8

any other adjustments

TOTAL GALS. RECOVERED 243

loaded onto BTS vehicle # 2

BTS event # 040512-PC2

time 1300

date 5/12/04

signature

* *

REC'D AT

time

date

unloaded by signature

WELL GAUGING DATA

Project # 040506-MT1 Date 5-6-04 Client 2035

Site 1001 SAN PABLO AVE., ALBANY, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	
VW-1	4					9.65	15.80		
VW-2	4					9.65	15.14		
VW-3	4					DRY	6.85		
VW-4	4					8.60	15.72		
VW-5	4					7.98	13.92		
VW6	4					6.48	12.08		
VW-7	4					8.40	14.54		
VW-8	4					8.27	14.20		
VW-9	4					7.08	14.11		
RW-1	6					10.00	25.54		
~~AS-1(a)~~	~~2~~								
~~AS-2(a)~~	~~2~~								
AS-1(a)	2					10.12	30.40		
AS-1(b)	2					DRY	7.75		
AS-2(a)	2					10.00	31.20		
AS-2(b)	2					DRY	5.45		
		~~Sampled~~ Remove all	CAPS	waited		15 min.			

WELL GAUGING DATA

Project # 040405-DW-2 Date 4-5-04 Client Arco 2035

Site 1001 San Pablo Ave Albany

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
VW-1	4					9.10	15.80		
VW-2	4					9.53	15.15		
VW-3	4					Dry	6.88		
VW-4	4					8.67	15.76		
VW-5	4					5.89	13.95		
VW-6	4					5.43	12.10		
VW-7	4					7.10	14.55		
VW-8	4					7.42	14.20		
VW-9	4					6.27	14.10		
RW-1	6					9.52	25.55		
AS-1(a)	2					9.78	~~7.70~~ 30.45		
AS-2(a)	2					9.77	31.25		
AS-1(b)	2					Dry	7.70		
AS-2(b)	2					Dry	5.45		
		Removed caps prior to gauging. Allowed wells for stabilization							

WELL GAUGING DATA

Project # 040607-PC2 Date 6/2/04 Client VRS 2035

Site 1001 San Pablo Ave. Albany ~~Richmond~~

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
VU-1	4					9.70	15.84		
VU-2	4					9.86	15.15		
VW-3	4					Dry	6.88		
VU-4	4					9.00	15.66		
VU-5	4					7.61	13.95		
VW-6	4					7.07	12.02		
VW-7	4					9.32	14.55		
VW-8	4					8.69	14.10		
VU-9	4					9.99	14.25		
RW-1	6					9.92	25.48		
AS-1a	2					10.30	30.39		
AS-2a	2					10.22	31.30		
AS-1b	2					Dry	7.55		
AS-2b	2					Dry	5.49		
		* All caps removed 15 min. prior to gauging							

ATTACHMENT B

LABORATORY PROCEDURES, CERTIFIED ANALYTICAL REPORTS, AND CHAIN-OF-CUSTODY RECORDS

LABORATORY PROCEDURES

Laboratory Procedures

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

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

28 May, 2004

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

RE: ARCO #2035, Albany, CA
Work Order: MNE0361

Enclosed are the results of analyses for samples received by the laboratory on 05/13/04 16:43. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

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URS Corporation [Arco]	Project: ARCO #2035, Albany, CA	MNE0361
1333 Broadway, Suite 800	Project Number: INTRIM-50231	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	05/28/04 16:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNE0361-01	Water	05/12/04 15:00	05/13/04 16:43
MW-2	MNE0361-02	Water	05/12/04 15:40	05/13/04 16:43
MW-3	MNE0361-03	Water	05/12/04 15:22	05/13/04 16:43
MW-4	MNE0361-04	Water	05/12/04 14:40	05/13/04 16:43
RW-1	MNE0361-05	Water	05/12/04 16:08	05/13/04 16:43
S-5	MNE0361-06	Water	05/12/04 13:18	05/13/04 16:43
TB-2035-5122004	MNE0361-07	Water	05/12/04 13:50	05/13/04 16:43

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 intact custody seals.

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.

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URS Corporation [Arco]	Project: ARCO #2035, Albany, CA	MNE0361
1333 Broadway, Suite 800	Project Number: INTRIM-50231	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	05/28/04 16:25

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MNE0361-01) Water Sampled: 05/12/04 15:00 Received: 05/13/04 16:43									
Ethanol	ND	100	ug/l	1	4E22001	05/22/04	05/22/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**3.0**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	**7.2**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**120**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*78-129*		"	"	"	"	
MW-2 (MNE0361-02) Water Sampled: 05/12/04 15:40 Received: 05/13/04 16:43									
Ethanol	ND	500	ug/l	5	4E22001	05/22/04	05/22/04	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	**27**	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project: ARCO #2035, Albany, CA	MNE0361
1333 Broadway, Suite 800	Project Number: INTRIM-50231	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	05/28/04 16:25

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MNE0361-03) Water Sampled: 05/12/04 15:22 Received: 05/13/04 16:43									
Ethanol	ND	100	ug/l	1	4E22001	05/22/04	05/22/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**39**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**65**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*78-129*		"	"	"	"	
MW-4 (MNE0361-04) Water Sampled: 05/12/04 14:40 Received: 05/13/04 16:43									
Ethanol	ND	500	ug/l	5	4E22001	05/22/04	05/22/04	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	**79**	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*78-129*		"	"	"	"	

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.

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URS Corporation [Arco]	Project: ARCO #2035, Albany, CA	MNE0361
1333 Broadway, Suite 800	Project Number: INTRIM-50231	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	05/28/04 16:25

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-1 (MNE0361-05) Water Sampled: 05/12/04 16:08 Received: 05/13/04 16:43									
Ethanol	ND	500	ug/l	5	4E22001	05/22/04	05/22/04	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Benzene	**66**	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*120 %*	*78-129*		"	"	"	"	
S-5 (MNE0361-06) Water Sampled: 05/12/04 13:18 Received: 05/13/04 16:43									
Ethanol	ND	10000	ug/l	100	4E22001	05/22/04	05/22/04	EPA 8260B	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
Benzene	**760**	50	"	"	"	"	"	"	
Toluene	**79**	50	"	"	"	"	"	"	
Ethylbenzene	**910**	50	"	"	"	"	"	"	
Xylenes (total)	**5000**	50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**28000**	5000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*122 %*	*78-129*		"	"	"	"	

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.

Sequoia Analytical

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URS Corporation [Arco]	Project: ARCO #2035, Albany, CA	MNE0361
1333 Broadway, Suite 800	Project Number: INTRIM-50231	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	05/28/04 16:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4E22001 - EPA 5030B P/T										
Blank (4E22001-BLK1)				Prepared & Analyzed: 05/22/04						
Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*5.74*		"	*5.00*		*115*	*78-129*			
Laboratory Control Sample (4E22001-BS1)				Prepared & Analyzed: 05/22/04						
Ethanol	181	100	ug/l	200		90.5	31-186			
tert-Butyl alcohol	45.9	20	"	50.0		91.8	0-206			
Methyl tert-butyl ether	9.18	0.50	"	10.0		91.8	63-137			
Di-isopropyl ether	8.27	0.50	"	10.0		82.7	76-130			
Ethyl tert-butyl ether	9.96	0.50	"	10.0		99.6	61-141			
tert-Amyl methyl ether	9.28	0.50	"	10.0		92.8	56-140			
1,2-Dichloroethane	11.2	0.50	"	10.0		112	77-136			
1,2-Dibromoethane (EDB)	9.88	0.50	"	10.0		98.8	77-132			
Benzene	9.19	0.50	"	10.0		91.9	78-124			
Toluene	9.21	0.50	"	10.0		92.1	78-129			
Ethylbenzene	9.52	0.50	"	10.0		95.2	84-117			
Xylenes (total)	28.3	0.50	"	30.0		94.3	83-125			
Surrogate: 1,2-Dichloroethane-d4	*5.23*		"	*5.00*		*105*	*78-129*			

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URS Corporation [Arco]	Project: ARCO #2035, Albany, CA	MNE0361
1333 Broadway, Suite 800	Project Number: INTRIM-50231	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	05/28/04 16:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4E22001 - EPA 5030B P/T										
Laboratory Control Sample (4E22001-BS2)				Prepared & Analyzed: 05/22/04						
Methyl tert-butyl ether	7.93	0.50	ug/l	9.92		79.9	63-137			
Benzene	5.23	0.50	"	6.40		81.7	78-124			
Toluene	31.8	0.50	"	29.7		107	78-129			
Ethylbenzene	7.58	0.50	"	6.96		109	84-117			
Xylenes (total)	38.1	0.50	"	33.7		113	83-125			
Gasoline Range Organics (C4-C12)	429	50	"	440		97.5	70-124			
Surrogate: 1,2-Dichloroethane-d4	*5.76*		"	*5.00*		*115*	*78-129*			
Laboratory Control Sample Dup (4E22001-BSD1)				Prepared & Analyzed: 05/22/04						
Ethanol	185	100	ug/l	200		92.5	31-186	2.19	37	
tert-Butyl alcohol	42.6	20	"	50.0		85.2	0-206	7.46	22	
Methyl tert-butyl ether	9.38	0.50	"	10.0		93.8	63-137	2.16	13	
Di-isopropyl ether	8.48	0.50	"	10.0		84.8	76-130	2.51	9	
Ethyl tert-butyl ether	10.4	0.50	"	10.0		104	61-141	4.32	9	
tert-Amyl methyl ether	9.42	0.50	"	10.0		94.2	56-140	1.50	12	
1,2-Dichloroethane	11.9	0.50	"	10.0		119	77-136	6.06	13	
1,2-Dibromoethane (EDB)	9.73	0.50	"	10.0		97.3	77-132	1.53	9	
Benzene	9.33	0.50	"	10.0		93.3	78-124	1.51	12	
Toluene	9.48	0.50	"	10.0		94.8	78-129	2.89	10	
Ethylbenzene	9.75	0.50	"	10.0		97.5	84-117	2.39	10	
Xylenes (total)	29.1	0.50	"	30.0		97.0	83-125	2.79	11	
Surrogate: 1,2-Dichloroethane-d4	*5.98*		"	*5.00*		*120*	*78-129*			
Laboratory Control Sample Dup (4E22001-BSD2)				Prepared & Analyzed: 05/22/04						
Methyl tert-butyl ether	8.29	0.50	ug/l	9.92		83.6	63-137	4.44	13	
Benzene	5.05	0.50	"	6.40		78.9	78-124	3.50	12	
Toluene	30.0	0.50	"	29.7		101	78-129	5.83	10	
Ethylbenzene	7.23	0.50	"	6.96		104	84-117	4.73	10	
Xylenes (total)	36.4	0.50	"	33.7		108	83-125	4.56	11	
Gasoline Range Organics (C4-C12)	391	50	"	440		88.9	70-124	9.27	20	
Surrogate: 1,2-Dichloroethane-d4	*5.46*		"	*5.00*		*109*	*78-129*			

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URS Corporation [Arco]	Project: ARCO #2035, Albany, CA	MNE0361
1333 Broadway, Suite 800	Project Number: INTRIM-50231	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	05/28/04 16:25

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Chain of Custody Record MW-0361

bp

Project Name 2035 GWM
BP BU/GEM CO Portfolio Retail
BP Laboratory Contract Number: Atlantic Richfield Company
Date: 5/12/04 Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: 1240 Temp: 75°F
Off- site Time: 1415 Temp: 75°F
Sky Conditions: clear
Meteorological Events: none
Wind Speed: Direction:

Send To:	BP/GEM Facility No.: ARCO 2035	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 1001 SAN PABLO AVE, ALBANY, CA	Address: 1333 Broadway, Suite 800
Lab Address: 885 Jarvis Dr.	Site ID No. ARCO 2035	Oakland, CA 94612
Morgan Hill, CA 95037	Site Lat/Long:	e-mail EDD: donna.cosper@URSCorp.com
	California Global ID #: T0600100081	Consultant/Contractor Project No.: 35-00002035.01 00427
Lab PM Lisa Race	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-893-3600/510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address: P.O. Box 6549	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: 1 Send EDF Reports	Moraga, CA 94570	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.:	Tele/Fax: 925-299-8891/925-299-8872	BP/GEM Work Release No: INTRIM -50231

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: GRO / BTEX 8015/8260	Requested Analysis: DRO w/SGC (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE (8260)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Requested Analysis: Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-1	1500		X			01	3				X	X				X	X	X	
2	MW-2	1540		X			02	3				X	X				X	X	X	
3	MW-3	1522		X			03	3				X	X				X	X	X	
4	MW-4	1440		X			04	3				X	X				X	X	X	
5	MW-1	1608		X			05	3				X	X				X	X	X	
6	S-6	1318		X			06	3				X	X				X	X	X	
7	TB-2035512004	1350					07	2				X	X							on hold
8																				
9																				
10																				

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: P. Lavish						
Sampler's Company: Blaine Tech	[illegible]	5/13/04	1046	[illegible]	5/13/04	10:10
Shipment Date:	[illegible]	5/13/04	1243	[illegible]	5/13/04	16:43
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Ice Chest Present Yes X No Temperature Blank Yes X No Cooler Temperature on Receipt 3.6 °F/C Trip Blank Yes X No

White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

BP COC Rev. 1 2/5/02

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: CRS
REC. BY (PRINT): Audrey Tuttle
WORKORDER: MJE0361

DATE REC'D AT LAB: 5/13/04
TIME REC'D AT LAB: 16:43
DATE LOGGED IN: 5-14-04

DRINKING WATER for regulatory purposes: YES / (NO)
WASTE WATER for regulatory purposes: YES / (NO)

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	(Present) / Absent ~~Intact~~ / Broken*	01		MW-1	3 VOA	HCL	Liquid	~~5/13/04~~ 5/12/04	Water Lot# 4071030
2. Chain-of-Custody	(Present) / Absent*	02		MW-2				5/12/04	4071030
3. Traffic Reports or Packing List:	Present / (Absent)	03		MW-3					4071030
		04		MW-4					4071030
4. Airbill:	Airbill / Sticker	05		MW-1					4071030
	Present / (Absent)	06		S-5					4071030
5. Airbill #:		07		TB-2035 5/12/2004	2 VOA				4071030
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. Temp Rec. at Lab: 3.6 °C Is temp 4 +/-2°C?	(Yes) / No**								

(Acceptance range for samples requiring thermal pres.)

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

5/13/04

HCL

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

ATTACHMENT C

HISTORICAL GROUNDWATER 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 1	--	--	--	--	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 1	**--**	**--**	**--**	**--**	**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-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-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	1.18	31.5	--	--	--
MW-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 (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)
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 (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)
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
µg/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: 07-02-04

Well Designation	Water Sample Field Date	TPHG LUFT Method	Benzene EPA 8020	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	TRPH EPA 418.1	TPHD LUFT Method
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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											
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	--	--	--	--	--	--	--

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

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

Date: 07-02-04

Well Designation	Water Sample Field Date	TPHG LUFT Method	Benzene EPA 8020	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	TRPH EPA 418.1	TPHD LUFT Method
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	36000	7400	3700	580	3400	<300	--	--	--	--	--	--

TPHG: total petroleum hydrocarbons as gasoline, California DHS LUFT Method
µg/L: micrograms per liter
EPA: United Statest Environmental Protection Agency
MTBE: Methyl-tert-butyl ether
SM: standard method
TRPH: total recoverable petroleum hydrocarbons
TPHD: total petroleum hydrocarbons as diesel, California DHS LUFT Method
-- : not analyzed
*: For previous historical 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).

ATTACHMENT D

JOINT MONITORING DATA

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)	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	42.73	8.24	34.49	NA	NA
S-1	08/23/1991	2,900	27	<2.5	75	18	NA	NA	42.73	8.37	34.36	NA	NA
S-1	11/07/1991	2,900	8	2.5	46	26	NA	NA	42.73	8.30	34.43	NA	NA
S-1	01/28/1992	2,000	11	<2.5	60	20	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	42.73	7.95	34.78	NA	NA
S-1	08/26/1992	2,000	9.4	<2.5	130	<2.5	NA	NA	42.73	8.24	34.49	NA	NA
S-1	10/28/1992	1,300	27	3.2	72	13	NA	NA	42.73	8.52	34.21	NA	NA
S-1	01/19/1993	1,500	13	3	29	31	NA	NA	42.73	6.54	36.19	NA	NA
S-1	04/29/1993	2,000	15	<2.5	82	<65	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	42.73	8.09	34.64	NA	NA
S-1	10/21/1993	1,200	34	25	15	9.5	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	42.73	8.25	34.48	NA	NA
S-1	04/13/1994	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	42.73	8.22	34.51	NA	NA
S-1	10/10/1994	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	42.73	6.88	35.85	NA	NA
S-1	04/21/1995	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	42.73	7.90	34.83	NA	4
S-1	10/31/1995	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	42.73	8.24	34.49	NA	7.4
S-1	04/25/1996	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	42.73	7.92	34.81	NA	2.7
S-1	12/10/1996	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	42.73	7.95	34.78	NA	3
S-1	05/22/1997	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	42.73	7.86	34.87	NA	3
S-1	11/03/1997	NA	NA	NA	NA	NA	NA	NA	42.73	8.35	34.38	NA	1.1

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-1	02/20/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	42.73	6.09	36.64	NA	2.9
S-1	05/18/1998	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	42.73	8.20	34.53	NA	1.9
S-1	11/06/1998	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	42.73	7.47	35.26	NA	1.5
S-1	05/28/1999	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	42.73	7.95	34.78	NA	1.4
S-1	11/16/1999	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	42.73	7.26	35.47	NA	1.4
S-1	05/09/2000	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	42.73	8.12	34.61	NA	1.4
S-1	11/15/2000	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	42.73	8.08	34.65	NA	1.1
S-1	05/31/2001	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	42.73	8.40	34.33	NA	1.3
S-1	12/31/2001	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	42.73	7.60	35.13	NA	2.2
S-1	06/04/2002	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	42.57	7.84	34.73	NA	0.9
S-1	11/27/2002	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	42.57	7.56	35.01	NA	1.5
S-1	06/03/2003	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	42.57	7.95	34.62	NA	1.3
S-1	11/13/2003	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	42.57	7.37	35.20	NA	1.2
S-1	**05/12/2004**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**42.57**	**8.05**	**34.52**	**NA**	**1.1**
S-2	05/13/1991	23,000	3,900	230	1,100	3,200	NA	NA	40.73	8.50	32.23	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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-2	08/23/1991	23,000	4,400	260	1,900	2,400	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	40.73	8.61	32.12	NA	NA
S-2	01/28/1992	22,000	1,600	70	420	1,700	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	40.73	8.10	32.63	NA	NA
S-2	08/26/1992	42,000	5,000	160	1,100	3,500	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	40.73	8.64	32.09	NA	NA
S-2	01/19/1993	20,000	2,300	370	660	1,300	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	40.73	7.70	33.03	NA	NA
S-2	07/22/1993	22,000	3,000	120	1,000	1,600	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	40.73	8.38	32.35	NA	NA
S-2	10/21/1993	14,000	2,800	74	870	1,100	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	40.73	8.58	32.15	NA	NA
S-2	01/04/1994	21,000	2,100	67	990	770	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	40.73	7.70	33.03	NA	NA
S-2	04/13/1994	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	40.73	7.86	32.87	NA	NA
S-2	10/10/1994	NA	NA	NA	NA	NA	NA	NA	40.73	8.12	32.61	NA	NA
S-2	01/26/1995	21,000	790	12	290	570	NA	NA	40.73	6.38	34.35	NA	5.5
S-2	04/21/1995	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	40.73	7.82	32.91	NA	4
S-2	10/31/1995	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	40.73	8.13	32.60	NA	7.2
S-2	04/25/1996	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	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	40.73	8.10	32.63	NA	2.2
S-2	12/10/1996	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	40.73	8.15	32.58	NA	4
S-2	05/22/1997	NA	NA	NA	NA	NA	NA	NA	40.73	8.79	31.94	NA	1.1

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S-2	08/22/1997	23,000	1,300	65	740	290	4,500	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	40.73	8.05	32.68	NA	3.2
S-2	11/03/1997	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	40.73	6.34	34.39	NA	0.4
S-2	05/18/1998	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	40.73	7.73	33.00	NA	1.9
S-2	11/06/1998	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	40.73	7.24	33.49	NA	1.4
S-2	05/28/1999	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	40.73	8.61	32.12	NA	1.2
S-2	11/16/1999	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	40.73	7.57	33.16	NA	1.2
S-2	05/09/2000	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	40.73	8.07	32.66	NA	1.1
S-2	11/15/2000	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	40.73	6.39	34.34	NA	1.4
S-2	05/31/2001	NA	NA	NA	NA	NA	NA	NA	40.73	7.21	33.52	NA	1.5
S-2	08/15/2001	15,000	67	4.1	220	33	NA	440	40.73	8.27	32.46	NA	0.6
S-2	12/31/2001	NA	NA	NA	NA	NA	NA	270	40.73	6.07	34.66	NA	0.2
S-2	02/06/2002	15,000	53	2.8	120	31	NA	220	40.73	7.98	32.75	NA	1.8
S-2	06/04/2002	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	40.63	7.67	32.96	NA	0.9
S-2	11/27/2002	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	40.63	7.29	33.34	NA	15.6
S-2	06/03/2003	17,000	<25	<25	130	<50	NA	290	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	40.63	8.18	32.45	NA	16.2
S-2	11/13/2003	10,000	18	<10	47	21	NA	180	40.63	7.98	32.65	NA	19.5
S-2	02/04/2004	5,700	54	<10	54	<20	NA	270	40.63	7.21	33.42	NA	>15

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S-2	**05/12/2004**	**8,200**	**18**	**<10**	**<10**	**<20**	**NA**	**250**	**40.63**	**8.07**	**32.56**	**NA**	**3.1**
S-3	05/13/1991	3,300	30	3.6	26	13	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	41.46	8.14	33.32	NA	NA
S-3	11/07/1991	4,000	20	3.9	5	4.9	NA	NA	41.46	7.91	33.55	NA	NA
S-3	01/28/1992	2,100	21	7.6	6.7	15	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	41.46	7.53	33.93	NA	NA
S-3	05/06/1992	6,600	38	51	45	65	NA	NA	41.46	7.55	33.91	NA	NA
S-3	08/26/1992	5,800	18	12	29	60	NA	NA	41.46	7.53	33.93	NA	NA
S-3	10/28/1992	3,000	55	11	16	32	NA	NA	41.46	7.95	33.51	NA	NA
S-3	01/19/1993	3,100	<5	5.1	11	16	NA	NA	41.46	6.12	35.34	NA	NA
S-3	04/29/1993	3,000	31	22	<5	14	NA	NA	41.46	7.27	34.19	NA	NA
S-3	07/22/1993	2,600	3.1	43	23	53	NA	NA	41.46	7.62	33.84	NA	NA
S-3	10/21/1993	2,500	73	14	16	32	NA	NA	41.46	7.81	33.65	NA	NA
S-3	01/04/1994	4,800	13	21	<12.5	33	NA	NA	41.46	7.49	33.97	NA	NA
S-3	04/13/1994	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	41.46	7.66	33.80	NA	NA
S-3	10/10/1994	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	41.46	6.50	34.96	NA	NA
S-3 (D)	01/26/1995	2,200	9.9	15	14	22	NA	NA	41.46	6.50	34.96	NA	NA
S-3	04/21/1995	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	41.46	7.28	34.18	NA	4
S-3	10/31/1995	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	41.46	7.48	33.98	NA	6.1
S-3	04/25/1996	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	41.46	7.04	34.42	NA	2.1
S-3	12/10/1996	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	41.46	7.44	34.02	NA	3

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S-3 (D)	02/20/1997	3,000	69	<5.0	14	12	70	NA	41.46	7.44	34.02	NA	3
S-3	05/22/1997	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	41.46	6.81	34.65	NA	2.9
S-3	11/03/1997	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	41.46	6.55	34.91	NA	0.8
S-3 (D)	02/20/1998	3,100	8.6	7.8	12	16	57	NA	41.46	6.55	34.91	NA	0.8
S-3	05/18/1998	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	41.46	6.98	34.48	NA	2.2
S-3	11/06/1998	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	41.46	6.93	34.53	NA	2.0
S-3	05/28/1999	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	41.46	9.05	32.41	NA	1.9
S-3	11/16/1999	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	41.46	6.59	34.87	NA	1.9
S-3	05/09/2000	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	41.46	6.82	34.64	NA	1.8
S-3	11/15/2000	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	41.46	6.57	34.89	NA	1.1
S-3	05/31/2001	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	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	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	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	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	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	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	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	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	41.37	7.67	33.70	NA	>20

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S-3	11/13/2003	5,200	5.1	2.4	<1.0	5.6	NA	69	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	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**	**41.37**	**7.94**	**33.43**	**NA**	**4.0**
S-4	05/13/1991	<50	<0.5	<0.5	<0.5	<0.5	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	41.10	8.32	32.78	NA	NA
S-4	11/07/1991	260	<0.5	<0.5	<0.5	<0.5	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	41.10	7.40	33.70	NA	NA
S-4	05/06/1992	54	<0.5	<0.5	<0.5	<0.5	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	41.10	8.13	32.97	NA	NA
S-4	10/28/1992	<50	<0.5	<0.5	<0.5	<0.5	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	41.10	5.86	35.24	NA	NA
S-4	04/29/1993	<50	<0.5	<0.5	<0.5	<0.5	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	41.10	7.02	34.08	NA	NA
S-4	07/22/1993	<50	<0.5	<0.5	<0.5	<0.5	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	41.10	8.53	32.57	NA	NA
S-4	01/04/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	41.10	7.92	33.18	NA	NA
S-4	04/13/1994	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	41.10	7.82	33.28	NA	NA
S-4	10/10/1994	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	41.10	5.73	35.37	NA	NA
S-4	04/21/1995	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	41.10	7.80	33.30	NA	NA
S-4	10/31/1995	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	41.10	8.26	32.84	NA	2.8
S-4	04/25/1996	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	41.10	8.18	32.92	NA	3.8
S-4	12/10/1996	NA	NA	NA	NA	NA	NA	NA	41.10	7.04	34.06	NA	3.9

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S-4	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	6.7	NA	41.10	7.07	34.03	NA	5
S-4	05/22/1997	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	41.10	7.69	33.41	NA	3.7
S-4	11/03/1997	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	41.10	5.57	35.53	NA	1.8
S-4	05/18/1998	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	41.10	7.77	33.33	NA	4.0
S-4	11/06/1998	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	41.10	6.51	34.59	NA	3.6
S-4	05/28/1999	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	41.10	9.13	31.97	NA	1.9
S-4	11/16/1999	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	41.10	7.19	33.91	NA	1.9
S-4	05/09/2000	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	41.10	7.83	33.27	NA	1.9
S-4	11/15/2000	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	41.10	6.20	34.90	NA	1.6
S-4	05/31/2001	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	41.10	7.90	33.20	NA	0.6
S-4	12/31/2001	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	41.10	7.29	33.81	NA	0.2
S-4	06/04/2002	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	41.04	7.39	33.65	NA	0.8
S-4	11/27/2002	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	41.04	8.45	32.59	NA	NA
S-4	06/03/2003	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	41.04	7.36	33.68	NA	NA
S-4	11/13/2003	NA	NA	NA	NA	NA	NA	NA	41.04	7.56	33.48	NA	NA

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S-4	02/04/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	41.04	6.47	34.57	NA	NA
S-4	**05/12/2004**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**41.04**	**7.10**	**33.94**	**NA**	**NA**
S-5	05/13/1991	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	39.99	15.14	29.25	5.50	NA
S-5	11/07/1991	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	39.99	14.05	29.86	4.90	NA
S-5	05/06/1992	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	39.99	14.26	28.77	3.80	NA
S-5	10/28/1992	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	39.99	12.36	30.80	3.96	NA
S-5	04/29/1993	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	39.99	9.55	31.16	0.90	NA
S-5	10/21/1993	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	39.99	11.69	29.82	1.90	NA
S-5	04/13/1994	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	39.99	12.01	29.41	1.79	NA
S-5	10/10/1994	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	39.99	8.42	32.95	1.72	NA
S-5	04/21/1995	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	39.99	11.42	30.07	1.87	NA
S-5	10/31/1995	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	39.99	12.05	28.04	0.13	NA
S-5	04/25/1996	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	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	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	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	39.99	8.93	31.06	NA	5

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S-5	05/22/1997	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	39.99	10.24	29.77	0.02	NA
S-5	11/03/1997	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	39.99	7.81	32.20	0.03	NA
S-5	05/18/1998	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	39.99	10.13	29.86	NA	NA
S-6	05/13/1991	13,000	600	140	210	310	NA	NA	40.12	7.82	32.30	NA	NA
S-6	08/23/1991	9,800	480	80	120	150	NA	NA	40.12	9.58	30.54	NA	NA
S-6	11/07/1991	6,200	240	23	25	27	NA	NA	40.12	10.86	29.26	NA	NA
S-6	01/28/1992	5,600	250	15	41	36	NA	NA	40.12	8.97	31.15	NA	NA
S-6	05/06/1992	7,100	330	29	110	210	NA	NA	40.12	8.27	31.85	NA	NA
S-6	08/26/1992	13,000	240	<50	56	780	NA	NA	40.12	9.57	31.55	NA	NA
S-6	10/28/1992	10,000	470	210	67	170	NA	NA	40.12	8.90	32.22	NA	NA
S-6	01/19/1993	4,800	100	26	27	45	NA	NA	40.12	4.84	35.28	NA	NA
S-6	04/29/1993	7,000	430	20	<12.5	42	NA	NA	40.12	5.61	34.51	NA	NA
S-6	07/22/1993	5,800	260	120	65	150	NA	NA	40.12	6.56	33.56	NA	NA
S-6	10/21/1993	5,500	270	69	120	140	NA	NA	40.12	8.73	31.39	NA	NA
S-6	01/04/1994	7,100	180	58	63	62	NA	NA	40.12	7.14	32.98	NA	NA
S-6	04/13/1994	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	40.12	6.85	33.27	NA	NA
S-6 (D)	07/25/1994	7,200	170	32	31	34	NA	NA	40.12	6.85	33.27	NA	NA
S-6	10/10/1994	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	40.12	4.89	35.23	NA	NA
S-6	04/21/1995	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	40.12	5.30	34.82	NA	3
S-6 (D)	07/28/1995	6,100	230	20	38	59	NA	NA	40.12	5.30	34.82	NA	3
S-6	10/31/1995	NA	NA	NA	NA	NA	NA	NA	40.12	4.98	35.14	NA	NA

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S-6	01/10/1996	6,800	170	87	35	105	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	40.12	5.67	34.45	NA	2.2
S-6	04/25/1996	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	40.12	5.40	34.72	NA	1.4
S-6	12/10/1996	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	40.12	5.70	34.42	NA	2
S-6	05/22/1997	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	40.12	5.71	34.41	NA	2.8
S-6	11/03/1997	NA	NA	NA	NA	NA	NA	NA	40.12	6.15	33.97	NA	1.4
S-6	02/20/1998	4,100	150	<10	<10	15	55	NA	40.12	5.25	34.87	NA	0.4
S-6	05/18/1998	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	40.12	6.04	34.08	NA	1.5
S-6 (D) b	08/20/1998	8,400	270	30	19	31	130	NA	40.12	6.04	34.08	NA	1.5
S-6	11/06/1998	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	40.12	5.84	34.28	NA	1.7
S-6	05/28/1999	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	40.12	8.29	31.83	NA	2.7
S-6	11/16/1999	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	40.12	5.33	34.79	NA	2.6
S-6	05/09/2000	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	40.12	5.84	34.28	NA	2.7
S-6	11/15/2000	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	40.12	5.50	34.62	NA	1.3
S-6	05/31/2001	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	40.12	6.04	34.08	NA	0.4
S-6	12/31/2001	6,900	120	12	6.6	24	NA	44	40.12	5.52	34.60	NA	0.4
S-6	02/06/2002	4,300	110	7.3	4.8	18	NA	39	40.12	6.34	33.78	NA	0.5
S-6	06/04/2002	4,300	140	8.4	4.9	22	NA	26	40.12	6.19	33.93	NA	0.4

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S-6	07/25/2002	3,900	140	9.0	5.5	23	NA	31	39.92	6.05	33.87	NA	0.7
S-6	11/27/2002	5,200	160	9.6	4.9	24	NA	26	39.92	6.26	33.66	NA	NA
S-6	01/30/2003	4,700	200	9.6	5.5	25	NA	30	39.92	5.73	34.19	NA	NA
S-6	06/03/2003	3,900	160	10	<10	25	NA	30	39.92	5.52	34.40	NA	NA
S-6	08/08/2003	2,900	150	8.8	3.6	18	NA	18	39.92	6.14	33.78	NA	NA
S-6	11/13/2003	8,300	220	19	11	35	NA	28	39.92	5.85	34.07	NA	NA
S-6	02/04/2004	7,400	310	17	10	31	NA	30	39.92	5.51	34.41	NA	NA
S-6	**05/12/2004**	**4,000**	**230**	**10**	**5.5**	**24**	**NA**	**21**	**39.92**	**6.10**	**33.82**	**NA**	**NA**
S-7	05/13/1991	<50	<0.5	<0.5	<0.5	<0.5	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	40.10	11.16	28.94	NA	NA
S-7	11/07/1991	<50	<0.5	<0.5	<0.5	<0.5	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	40.10	10.72	29.38	NA	NA
S-7	05/06/1992	<50	<0.5	<0.5	<0.5	<0.5	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	40.10	11.13	28.97	NA	NA
S-7	10/28/1992	<50	<0.5	<0.5	<0.5	<0.5	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	40.10	8.68	31.42	NA	NA
S-7	04/29/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	9.90	30.20	NA	NA
S-7	07/22/1993	Well inaccessible		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	40.10	11.10	29.00	NA	NA
S-7	01/04/1994	<50	<0.5	<0.5	<0.5	<0.5	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	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	40.10	10.20	29.90	NA	NA
S-7	07/25/1994	<50	<0.5	<0.5	<0.5	<0.5	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	40.10	10.64	29.46	NA	NA
S-7	01/26/1995	<50	<0.5	<0.5	<0.5	<0.5	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	40.10	8.51	31.59	NA	NA
S-7	07/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	10.20	29.90	NA	3

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S-7	10/31/1995	<50	<0.5	<0.5	<0.5	<0.5	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	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	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	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	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	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	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	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	40.10	11.29	28.81	NA	2.6
S-7	02/20/1998	350	23	13	14	42	3.8	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	40.10	10.29	29.81	NA	4.4
S-7	08/20/1998	Well inaccessible		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	40.10	11.19	28.91	NA	5.2
S-7	02/16/1999	Well inaccessible		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	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	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	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	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	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	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	40.10	10.53	29.57	NA	4.6
S-7	02/14/2001	Well inaccessible		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	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	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	40.10	9.14	30.96	NA	3.0
S-7	02/06/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	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	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	39.91	10.37	29.54	NA	1.1

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S-7	11/27/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	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	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	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	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	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	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**	**39.91**	**10.20**	**29.71**	**NA**	**NA**
S-8	**05/10/2004**	**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**	**40.52**	**10.95**	**29.57**	**NA**	**NA**
S-9	**05/10/2004**	**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**	**39.72**	**10.42**	**29.30**	**NA**	**NA**

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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
TOC = Top of Casing Elevation
TOB = Top of Wellbox Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
DO = Dissolved Oxygen
ug/L = Parts per billion
MSL = Mean sea level
ft. = Feet
ppm = Parts per million
<n = Below detection limit
D = Duplicate sample
NA = Not applicable

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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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)

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.

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.

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).

ATTACHMENT E

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

06/30/04

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #2035, Albany, CA
Work Order Number:	MNE0361
Global ID:	T0600100081
Lab Report Number:	MNE0361052820041625

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MNE03610528200 41625	MW-1	MNE036101	W	CS	8260FA	SW5030B	05/12/04	05/22/04	05/22/04	4E22001	1
MNE03610528200 41625	MW-2	MNE036102	W	CS	8260FA	SW5030B	05/12/04	05/22/04	05/22/04	4E22001	1
MNE03610528200 41625	MW-3	MNE036103	W	CS	8260FA	SW5030B	05/12/04	05/22/04	05/22/04	4E22001	1
MNE03610528200 41625	MW-4	MNE036104	W	CS	8260FA	SW5030B	05/12/04	05/22/04	05/22/04	4E22001	1
MNE03610528200 41625	RW-1	MNE036105	W	CS	8260FA	SW5030B	05/12/04	05/22/04	05/22/04	4E22001	1
MNE03610528200 41625	S-5	MNE036106	W	CS	8260FA	SW5030B	05/12/04	05/22/04	05/22/04	4E22001	1
		4E22001BSD1	WQ	BD1	8260FA	SW5030B	/ /	05/22/04	05/22/04	4E22001	1
		4E22001BSD2	WQ	BD2	8260FA	SW5030B	/ /	05/22/04	05/22/04	4E22001	1
		4E22001BS1	WQ	BS1	8260FA	SW5030B	/ /	05/22/04	05/22/04	4E22001	1
		4E22001BS2	WQ	BS2	8260FA	SW5030B	/ /	05/22/04	05/22/04	4E22001	1
		4E22001BLK1	WQ	LB1	8260FA	SW5030B	/ /	05/22/04	05/22/04	4E22001	1

EDFSAMP: Error Summary Log

06/30/04

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
There are no errors in this data file					

EDFTEST: Error Summary Log

06/30/04

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					/ /	0

EDFRES: Error Summary Log

06/30/04

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MNE036101	CS	W	8260FA	PR	05/22/04	1	BZ
Warning: extra parameter	MNE036101	CS	W	8260FA	PR	05/22/04	1	BZME
Warning: extra parameter	MNE036101	CS	W	8260FA	PR	05/22/04	1	DCA12D4
Warning: extra parameter	MNE036101	CS	W	8260FA	PR	05/22/04	1	EBZ
Warning: extra parameter	MNE036101	CS	W	8260FA	PR	05/22/04	1	GROC4C12
Warning: extra parameter	MNE036101	CS	W	8260FA	PR	05/22/04	1	XYLENES
Warning: extra parameter	MNE036102	CS	W	8260FA	PR	05/22/04	1	BZ
Warning: extra parameter	MNE036102	CS	W	8260FA	PR	05/22/04	1	BZME
Warning: extra parameter	MNE036102	CS	W	8260FA	PR	05/22/04	1	DCA12D4
Warning: extra parameter	MNE036102	CS	W	8260FA	PR	05/22/04	1	EBZ
Warning: extra parameter	MNE036102	CS	W	8260FA	PR	05/22/04	1	GROC4C12
Warning: extra parameter	MNE036102	CS	W	8260FA	PR	05/22/04	1	XYLENES
Warning: extra parameter	MNE036103	CS	W	8260FA	PR	05/22/04	1	BZ
Warning: extra parameter	MNE036103	CS	W	8260FA	PR	05/22/04	1	BZME
Warning: extra parameter	MNE036103	CS	W	8260FA	PR	05/22/04	1	DCA12D4
Warning: extra parameter	MNE036103	CS	W	8260FA	PR	05/22/04	1	EBZ
Warning: extra parameter	MNE036103	CS	W	8260FA	PR	05/22/04	1	GROC4C12
Warning: extra parameter	MNE036103	CS	W	8260FA	PR	05/22/04	1	XYLENES
Warning: extra parameter	MNE036104	CS	W	8260FA	PR	05/22/04	1	BZ
Warning: extra parameter	MNE036104	CS	W	8260FA	PR	05/22/04	1	BZME
Warning: extra parameter	MNE036104	CS	W	8260FA	PR	05/22/04	1	DCA12D4
Warning: extra parameter	MNE036104	CS	W	8260FA	PR	05/22/04	1	EBZ
Warning: extra parameter	MNE036104	CS	W	8260FA	PR	05/22/04	1	GROC4C12
Warning: extra parameter	MNE036104	CS	W	8260FA	PR	05/22/04	1	XYLENES
Warning: extra parameter	MNE036105	CS	W	8260FA	PR	05/22/04	1	BZ

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MNE036105	CS	W	8260FA	PR	05/22/04	1	BZME
Warning: extra parameter	MNE036105	CS	W	8260FA	PR	05/22/04	1	DCA12D4
Warning: extra parameter	MNE036105	CS	W	8260FA	PR	05/22/04	1	EBZ
Warning: extra parameter	MNE036105	CS	W	8260FA	PR	05/22/04	1	GROC4C12
Warning: extra parameter	MNE036105	CS	W	8260FA	PR	05/22/04	1	XYLENES
Warning: extra parameter	MNE036106	CS	W	8260FA	PR	05/22/04	1	BZ
Warning: extra parameter	MNE036106	CS	W	8260FA	PR	05/22/04	1	BZME
Warning: extra parameter	MNE036106	CS	W	8260FA	PR	05/22/04	1	DCA12D4
Warning: extra parameter	MNE036106	CS	W	8260FA	PR	05/22/04	1	EBZ
Warning: extra parameter	MNE036106	CS	W	8260FA	PR	05/22/04	1	GROC4C12
Warning: extra parameter	MNE036106	CS	W	8260FA	PR	05/22/04	1	XYLENES
Warning: extra parameter	4E22001BLK1	LB1	WQ	8260FA	PR	05/22/04	1	BZ
Warning: extra parameter	4E22001BLK1	LB1	WQ	8260FA	PR	05/22/04	1	BZME
Warning: extra parameter	4E22001BLK1	LB1	WQ	8260FA	PR	05/22/04	1	DCA12D4
Warning: extra parameter	4E22001BLK1	LB1	WQ	8260FA	PR	05/22/04	1	EBZ
Warning: extra parameter	4E22001BLK1	LB1	WQ	8260FA	PR	05/22/04	1	GROC4C12
Warning: extra parameter	4E22001BLK1	LB1	WQ	8260FA	PR	05/22/04	1	XYLENES
Warning: extra parameter	4E22001BS1	BS1	WQ	8260FA	PR	05/22/04	1	BZ
Warning: extra parameter	4E22001BS1	BS1	WQ	8260FA	PR	05/22/04	1	BZME
Warning: extra parameter	4E22001BS1	BS1	WQ	8260FA	PR	05/22/04	1	DCA12D4
Warning: extra parameter	4E22001BS1	BS1	WQ	8260FA	PR	05/22/04	1	EBZ
Warning: extra parameter	4E22001BS1	BS1	WQ	8260FA	PR	05/22/04	1	XYLENES
Warning: extra parameter	4E22001BS2	BS2	WQ	8260FA	PR	05/22/04	1	BZ
Warning: extra parameter	4E22001BS2	BS2	WQ	8260FA	PR	05/22/04	1	BZME
Warning: extra parameter	4E22001BS2	BS2	WQ	8260FA	PR	05/22/04	1	DCA12D4
Warning: extra parameter	4E22001BS2	BS2	WQ	8260FA	PR	05/22/04	1	EBZ
Warning: extra parameter	4E22001BS2	BS2	WQ	8260FA	PR	05/22/04	1	GROC4C12
Warning: extra parameter	4E22001BS2	BS2	WQ	8260FA	PR	05/22/04	1	XYLENES
Warning: extra parameter	4E22001BSD1	BD1	WQ	8260FA	PR	05/22/04	1	BZ

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4E22001BSD1	BD1	WQ	8260FA	PR	05/22/04	1	BZME
Warning: extra parameter	4E22001BSD1	BD1	WQ	8260FA	PR	05/22/04	1	DCA12D4
Warning: extra parameter	4E22001BSD1	BD1	WQ	8260FA	PR	05/22/04	1	EBZ
Warning: extra parameter	4E22001BSD1	BD1	WQ	8260FA	PR	05/22/04	1	XYLENES
Warning: extra parameter	4E22001BSD2	BD2	WQ	8260FA	PR	05/22/04	1	BZ
Warning: extra parameter	4E22001BSD2	BD2	WQ	8260FA	PR	05/22/04	1	BZME
Warning: extra parameter	4E22001BSD2	BD2	WQ	8260FA	PR	05/22/04	1	DCA12D4
Warning: extra parameter	4E22001BSD2	BD2	WQ	8260FA	PR	05/22/04	1	EBZ
Warning: extra parameter	4E22001BSD2	BD2	WQ	8260FA	PR	05/22/04	1	GROC4C12
Warning: extra parameter	4E22001BSD2	BD2	WQ	8260FA	PR	05/22/04	1	XYLENES

EDFQC: Error Summary Log

06/30/04

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

06/30/04

Error type	Clrevdate	Anmcode	Exmcode	Parlabel	Clcode
There are no errors in this data file	/ /				

AB2886 Electronic Delivery

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been succcessfully uploaded!

Confirmation Number: 4577704727
Date/Time of Submittal: 6/30/2004 1:55:28 PM
Facility Global ID: T0600100081
Facility Name: ARCO # 02035
Submittal Title: 2nd Qtr 2004 Monitoring Report #2035
Submittal Type: GW Monitoring Report

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

AB2886 Electronic Delivery

Main Menu | View/Add Facilities | Upload EDD | Check EDD

UPLOADING A GEO_WELL FILE

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

Submittal Title:	**2nd Qtr 2004 Geowell for #2035**
Submittal Date/Time:	**6/30/2004 1:56:10 PM**
Confirmation Number:	**7288345158**

Back to Main Menu

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

ATTACHMENT F

O&M FIELD DATA SHEETS

ARCO # 2035

1001 San Pablo Ave., Albany, CA

O&M FIELD DATA FORM

REMARKS: Thermtech in operation

SAMPLED [ ] NOT SAMPLED [ ]

Scheduled Site Visit [X] Unscheduled Site Visit [ ]

	24 Hour
Arrival Time	1115
System Status	ON
Shutdown Time	
Restart Time	
Depart Time	1157

SYSTEM PARAMETERS

Temperatures (deg F)		Pressures		
Control Setpoint	650	Total Press (in. WC)	1	
Control Temp.	651	Total Flow (ft/min)	1400	
Catalyst Setpoint	1250	Dilution Air (ft/min)	1200	
Catalyst Temp	657	Vacuum (in. WC)	35	
Well Field Influent	60	Well Manifold(~~ft/min~~)	10	CFM

UTILITIES

Electric Meter (kwh)	12623
Nat Gas (cu/ft)	0484
Total Hours	27404.55

AIR MONITORING

FID (ppm)	w/carbon	w/o carbon	DIFFERENCE
INFLUENT	15	25	10
EFFLUENT	ND	ND	ND

Lab samples taken for analysis to: Sequoia Labs

WELL FIELD

SVE WELL ID	Well Diameter	Screen Interval	DTW (feet)	TD (feet)	Valve Position (% open)	Vacuum (in. of H_2O)	Velocity (ft/min)	FID (ppm)	

Field Notes:

Special Instructions:

DESTRUCTION CALCULATION; (EFF) DIVIDED BY (INF) EQUALS (X) (1-X) TIMES 100 EQUALS (TOTAL DESTRUCTION)
(please use this formula only)

PERMIT DETAILS (For Arco sites only)

CONCENTRATION / INF	ALLOWABLE DESTRUCTION
2000 PPM OR GREATER	98.50%
200-1999 PPM	97.00%
LESS THAN 200 PPM	90.00%

Operator H Gomes Date: 01/30/04

K 2/16/04

Field Report

Field Office: Oakland, CA	Date: 021004
	Job No.:
	Project: 2035
Prepared By: Mike Gomes	Location:
To:	Weather: / Temp.
	Client: BP
	Contractor: URS
Attn:	Stacy Ball is here as traffic control
Page ___ of ___	

0810 - arrived on site to take DTW readings. System is operating.

Did DTW readings.

0857 - Shut down ThermTech unit and secured valving.

0907 - Left site for next job.

Electric - 73606 Control Temp 650°F

GAS - 0717 CAT Temp 658°F

Total hours - 27665.63 Well Field 74°F

Total press - 1" WC

Total Flow - 1400

Dilution air - 1700

Vac - 30" WC

Well Manifold Vac - 825" WC

Well ID	DTW	Time
AS-1		
AS-2		
MW-1		
MW-2	10.00	0737
MW-3		
MW-4	~~5.40~~ 5.68	~~0757~~ 0748
MW-5	CAR	
RW-1	~~0778~~ 8.78	0725
VW-1	5.52	0716
VW-2	8.85	0721
VW-3	6.25	0714
VW-4	5.10	0705
VW-5	3.32	0727
VW-6	3.81	0758
VW-7	5.09	0707
VW-8	6.69	0755
VW-9	6.02	0730

Filter Field Report Blanchard.doc

KV 2/13/04

ARCO # 2035

1001 San Pablo Ave., Albany, CA

O&M FIELD DATA FORM

REMARKS:

SAMPLED [X] NOT SAMPLED [ ]

Scheduled Site Visit [ ] Unscheduled Site Visit [ ]

	24 Hour
Arrival Time	0540
System Status	OFF
Shutdown Time	
Restart Time	0545
Depart Time	0700

SYSTEM PARAMETERS

Temperatures (deg F)		Pressures		
Control Setpoint	650	Total Press (in. WC)	2	
Control Temp.	652	Total Flow (ft/min)	1600	
Catalyst Setpoint	1250	Dilution Air (ft/min)	2000	
Catalyst Temp	663	Vacuum (in. WC)	20	
Well Field Influent	59 °F	Well Manifold(ft/min)	1000	15" WC

UTILITIES

Electric Meter (kwh)	10715
Nat Gas (cu/ft)	0029
Total Hours	26895.50

AIR MONITORING

FID (ppm)	w/carbon	w/o carbon	DIFFERENCE
INFLUENT			
EFFLUENT			

Lab samples taken for analysis to: Sequoia Labs

WELL FIELD

SVE WELL ID	Well Diameter	Screen Interval	DTW (feet)	TD (feet)	Valve Position (% open)	Vacuum (in. of H_2O)	Velocity (ft/min)	FID (ppm)	

Field Notes: System was down. Found no original sign of any problem. Did system restart. Grabbed samples.

Special Instructions:

DESTRUCTION CALCULATION; (EFF) DIVIDED BY (INF) EQUALS (X) (1-X) TIMES 100 EQUALS (TOTAL DESTRUCTION)
(please use this formula only)

PERMIT DETAILS (For Arco sites only)

CONCENTRATION / INF	ALLOWABLE DESTRUCTION
2000 PPM OR GREATER	98.50%
200-1999 PPM	97.00%
LESS THAN 200 PPM	90.00%

Operator M Gomes Date: 010904

K 1/9/04