



January 25, 2003

Mr. Scott Seery
Alameda Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Alameda County
JAN 29 2004
Environmental Health

**Re: Second Semi-Annual 2003 Groundwater Monitoring & Remediation System Operation & Maintenance Report
ARCO Service Station #2035
1001 San Pablo Avenue
Albany, California
URS Project #38486319**

Dear Mr. Seery:

On behalf of Atlantic Richfield Company (ARCO – a BP affiliated company), URS Corporation (URS) is submitting the *Second Semi-Annual 2003 Groundwater Monitoring and Remediation System Operation and Maintenance Report* for the ARCO Service Station #2035, which is located at 1001 San Pablo Avenue, Albany, California.

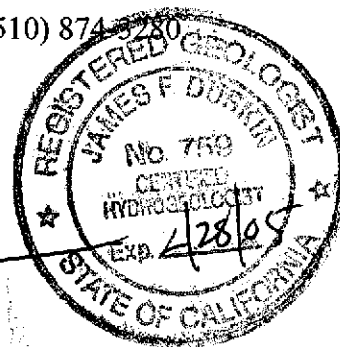
If you have any questions regarding this submission, please call me at (510) 874-2280

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

James F. Durkin, C.Hg.
Project Geologist



Enclosure: Second Semi-Annual 2003 Groundwater Monitoring and Remediation System Operation and Maintenance Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)
Barbara and James A. Lestrangle, 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

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(a BP affiliated company)

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January 25, 2003

Second Semi-Annual 2003 Groundwater Monitoring &
Remediation System Operation & Maintenance Report
ARCO Service Station #2035
1001 San Pablo Avenue
Albany, California
URS Project #38486319

Alameda County
JAN 29 2004
Environmental Health

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

Submitted by:

Paul Supple
Environmental Business Manager

R E P O R T

**SECOND SEMI-ANNUAL 2003
MONITORING AND
REMEDIATION SYSTEM
PERFORMANCE**

ARCO SERVICE STATION #2035
1001 SAN PABLO AVENUE
ALBANY, CALIFORNIA

Prepared for
Atlantic Richfield Company

January 25, 2003

URS

URS Corporation
500 12th Street, Suite 200
Oakland, California 94607

38486319

Date: January 25, 2003
 Period: 4Q03

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

Facility No.: 2035 Address: 1001 San Pablo Avenue, Albany, California
 ARCO Environmental Business Manager: Paul Supple
 Consulting Co./Contact Person: URS Corporation / Scott Robinson
 Consultant Project No.: 38486319
 Primary Agency/Regulatory ID No.: Alameda County Health Care Services Association
ACHCSA

WORK PERFORMED THIS PERIOD (FOURTH – 2003):

1. Performed fourth quarter 2003 monitoring event on November 13, 2003.
2. Prepared Second Semi-Annual 2003 Groundwater Monitoring and Remediation System Operation and Maintenance Report.
3. Performed O&M of SVE system and AS remediation system.
4. Wells re-surveyed to vertical NAV'88 Datum on October 15, 2003 (Attachment F).
5. Wells MW-1, MW-2, MW-5 and S-5 repaired on November 14, 2003 (Attachment H)
6. Performed SVE remediation system evaluation on November 14, 2003.

WORK PROPOSED FOR NEXT PERIOD (FIRST – 2004):

1. Submit Second Second Semi-Annual 2003 Groundwater Monitoring and Remediation System Operation and Maintenance Report.
2. Prepare and submit first quarter 2004 Quarterly Status Report.
3. Perform O&M of SVE system and AS remediation system.

Current Phase of Project:	<u>Remediation/GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>Annually (4th quarter): MW-5 and MW-6</u> <u>Semi-Annually (2nd /4th quarter): MW-1 through MW-4, RW-1, and S-5</u>
Frequency of Groundwater Monitoring:	<u>Semi-annual</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
Current Remediation Techniques:	<u>AS/SVE</u>
Approximate Depth to Groundwater:	<u>9.12 (S-5) to 13.11 (MW-6) feet</u>
Groundwater Gradient (direction):	<u>West (offsite Northwest)</u>
Groundwater Gradient (magnitude):	<u>0.015 (offsite 0.048) feet per foot</u>
Equipment Inventory:	<u>Therm Tech Model VAC-10 Thermal/Catalytic Oxidizer</u>
Operating Mode:	<u>Catalytic Oxidation</u>
BAAQMD Permit #:	<u>8694</u>
TPH Conc. End of Period (lab):	<u>ND<9.8 ppmv</u>
Benzene Conc. End of Period (lab):	<u>ND<0.31 ppmv</u>
SVE Flowrate End of Period:	<u>75 scfm</u>

Total HC Destroyed This Period:	0.0 pounds
Total HC Destroyed to Date:	3,967 pounds
Utility Usage This Period	
Electric (kWh):	9830
Gas (cu/ft):	9895
Operating Hours This Period (SVE):	2769
Operating Hours to Date (SVE):	22383 Hours
Percent Operational This Period (SVE):	62%
Unit Maintenance:	Currently optimizing SVE system performance
Number of Auto Shut Downs:	6
Destruction Efficiency Permit Requirement:	98.5% (POC >2,000 ppmv); 97% (POC >200 ppmv); 90% (POC <200 ppmv)
Percent TPH Conversion:	Not calculated due to non-detection
Average Stack Temperature:	652° F
Average SVE Source Flow:	52 scfm
Average SVE Process Flow:	78 scfm
Average Source Vacuum:	20 in of H ₂ O

DISCUSSION:

TPHg was detected above laboratory reporting limits in three of the eight wells sampled this quarter at concentrations from 53 µg/L (MW-3) to 31,000 µg/L (S-5). Benzene was detected above laboratory reporting limits in two wells at concentrations of 29 µg/L in RW-1 and 520 µg/L in S-5. MTBE was detected above laboratory reporting limits in six wells, at concentrations ranging from 0.79 µg/L in MW-5 to 44 µg/L in RW-1. Tert-butyl alcohol, tert-amyl methyl ether, ethyl tert butyl alcohol and di-isopropyl ether were not detected above laboratory reporting limits in any wells sampled.

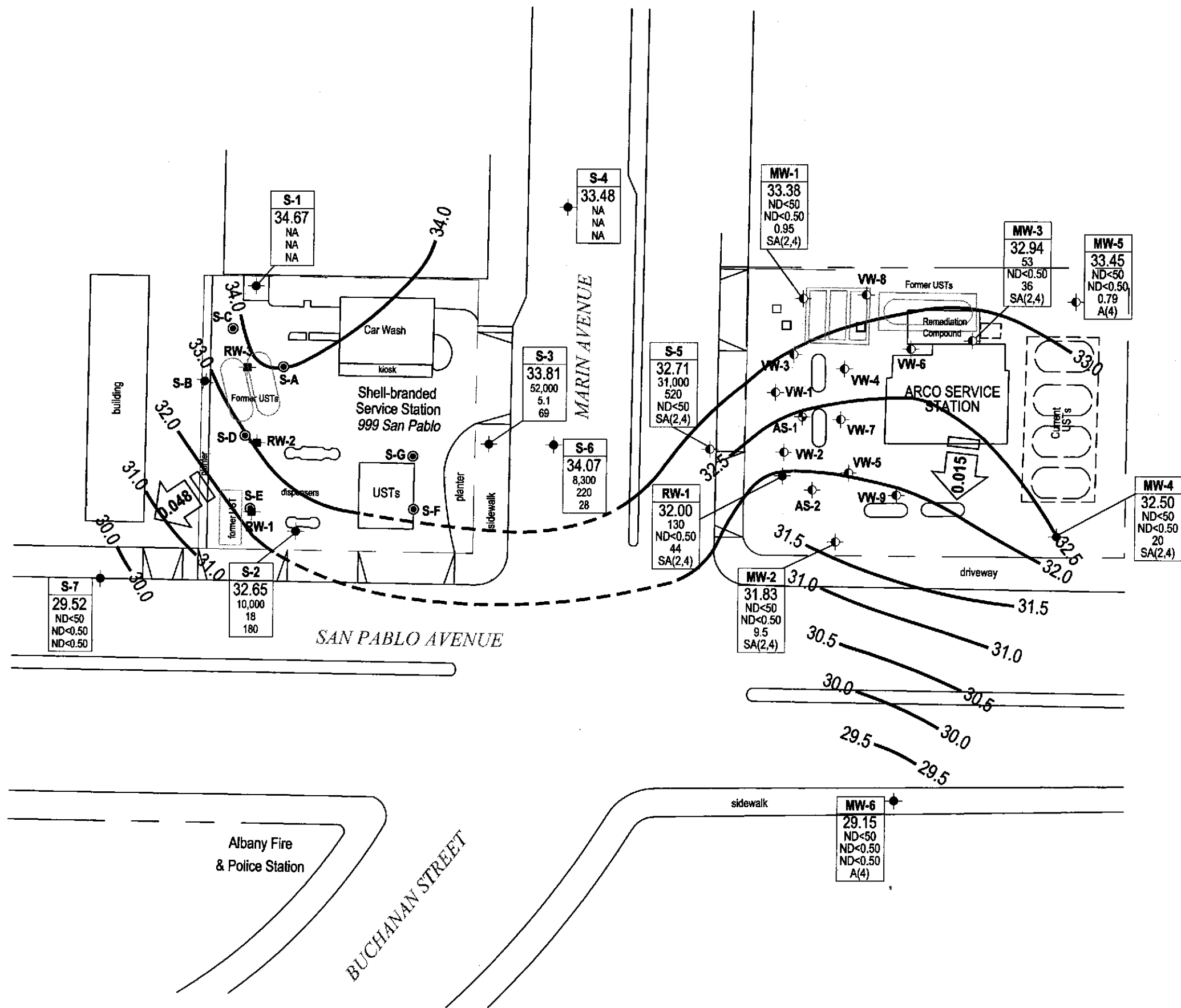
URS repaired and restored system on June 24, 2003. System has been operational since June 24, 2003 with several automatic shut downs due to system control faults. System has run approximately 3,594 hours since restart. Concentration of hydrocarbon influent has been minimal (maximum concentration of hydrocarbon was 0.27 µg/L of MTBE on October 24, 2003). URS performed a system evaluation on November 14, 2003 to optimize hydrocarbons entering the system. URS will continue to evaluate ways to optimize concentrations.

The sampling frequency of wells MW-5 and MW-6 was decreased from semi-annually to annually this quarter.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – November 13, 2003
- 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 Flow 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 – Geo-Z, Geo-XY Survey Data/ Survey Submittal Confirmations
- Attachment G – O&M Field Data Sheets

- **Attachemet H – Well Repair Field Data Sheets**



EXPLANATION

- ◆ (Arco) Monitoring well
- ◊ (Arco) Vapor extraction well
- ⊕ (Arco) Air sparge well

Well	Well designation
ELEV	Groundwater elevation (ft above MSL)
TPH-g	TPH-g, Benzene & MTBE concentrations in micrograms per liter (µg/L)
Benzene	
MTBE	
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

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.

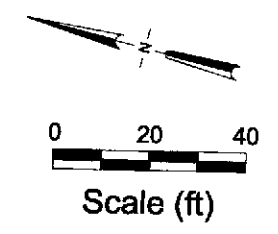


Table 1
Grounwater Elevation and Analytical Data
 ARCO Service Station #2035
 1001 San Pablo Avenue,
 Albany, CA

Well Number	Date Sampled		Well Elevation ^a (feet, MSL)	Top of Screen (feet, MSL)	Bottom of Casing (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)
MW-1	04/11/02	P	41.41			10.73	30.68	800	360	ND <5.0	ND <5.0	ND <5.0	ND <5.0	NA
	11/27/02	P				10.22	31.19	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.7	1.1
	06/03/03	P				9.14	32.27	1,700	430	ND <5.0	24	11	8.6	1.7
	11/13/03 ^c	P	43.55	28.55	13.45	10.17	33.38	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.95	2.3
MW-2	04/11/02	P	40.38			11.05	29.33	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	24	NA
	11/27/02	P				10.51	29.87	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	5.4	2.6
	06/03/03	P				9.78	30.60	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	23	1.7
	11/13/03 ^c	P	42.52	22.52	13.42	10.69	31.83	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.5	2.3
MW-3	04/11/02	P	41.44			11.05	30.39	250	9.4	ND <0.50	ND <0.50	ND <0.50	120	NA
	11/27/02	P				10.49	30.95	ND <100	ND <1.0	ND <1.0	ND <1.0	2.5	56	2.2
	06/03/03	P				9.44	32.00	130	ND <0.50	ND <0.50	ND <0.50	ND <0.50	47	4.1
	11/13/03 ^c	P	43.62	31.12	10.12	10.68	32.94	53	ND<0.50	ND<0.50	ND<0.50	ND<0.50	36	3.8
MW-4	04/11/02	NP	40.33			10.81	29.52	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	11	NA
	11/27/02	NP				10.09	30.24	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	6.5	1.8
	06/03/03	NP				8.62	31.71	ND <250	ND <2.5	ND <2.5	ND <2.5	ND <2.5	120	1.1
	11/13/03 ^c	NP	42.48	33.98	16.68	9.98	32.50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	20	1.3
MW-5	04/11/02	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
	11/27/02	NP				10.65	31.19	NS	NS	NS	NS	NS	NS	NA
	06/03/03	NP				8.92	32.92	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.8
	11/13/03 ^c	NP	44.03	35.53	18.93	10.58	33.45	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.79	1.4
MW-6	04/11/02	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
	11/27/02	NP				13.11	27.02	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.3
	06/03/03	NP				12.48	27.65	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.1
	11/13/03 ^c	NP	42.26	34.26	17.46	13.11	29.15	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.2

Table 1
Grounwater Elevation and Analytical Data
 ARCO Service Station #2035
 1001 San Pablo Avenue,
 Albany, CA

Well Number	Date Sampled		Well Elevation ^a (feet, MSL)	Top of Screen (feet, MSL)	Bottom of Casing (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)
RW-1	04/11/02	P	40.33			9.20	31.13	15,000	750	2,000	380	2,000	1,500	NA
DUP	04/11/02	--	--			--	--	24,000	840	2,300	500	2,800	970	NA
	11/27/02	P				10.31	30.02	ND <2,500	720	ND <25	ND <25	ND <25	ND <25	1.8
	06/03/03	P				9.54	30.79	470	78	0.97	4.3	9.0	48	1.4
	11/13/03 ^c	P	42.35	31.35	16.95	10.35	32.00	130	29	ND<0.50	ND<0.50	ND<0.50	44	1.3
S-5	04/11/02	P	--			10.17	--	30,000	390	1,400	410	7,400	ND <500	NA
	11/27/02	P				9.77	--	55,000	1,300	450	1,400	13,000	ND <50	4.3
	06/03/03	P				9.03	--	44,000	680	260	1,100	9,900	ND<25	1.9
	11/13/03 ^c	P	41.83			9.12	32.71	31,000	520	120	690	5,900	ND<50	1.4

- Note: First and third quarter not monitored or sampled
- BTEX = Benzene, toluene, ethyl benzene, and total xylenes analyzed using EPA Method 8260B
- TPH = Total petroleum hydrocarbons (Gasoline Range Organics C6-C10) analyzed using EPA Method 8260B
- MTBE =Methyl tertiary butyl ether analyzed using EPA Method 8260B.
- DO =Dissolved Oxygen
- µg/L = Micrograms per liter equivalent to parts per billion (ppb)
- mg/L = Milligrams per liter equivalent to parts per billion (ppb)
- P = Purge
- NP = Not Purge
- MSL = Mean sea level
- TOC = Top of casing
- ND < = 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 = Chromatogram Pattern: Unidentified Hydrocarbons C6-C10

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

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
Groundwater Flow Direction and Gradient
 ARCO Service Station #2035
 1001 San pablo Avenue
 Albany, CA

Date Measured	Average Flow Direction	Average Hydraulic Gradient
04-11-02	Southwest	0.012
11-27-02	West	0.021
06-03-03	West	0.024
11/13/2003^a	West (offsite Northwest)	0.015 (offsite 0.048^b)

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

b = Offsite location at 999 San Pablo surveyed according to California State Coordinate System, Zone III (NAD83)

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 3
Fuel Oxygenate Analytical Data**

ARCO Service Station #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-Dichloroethane (µg/L)	1,2 Dibromoethane (EDB) (µg/L)
MW-1	06/03/03	ND<1000	ND<200	8.6	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	11/13/03	ND<100	ND<20	0.95	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-2	06/03/03	ND<100	ND<20	23.0	ND<0.50	ND<0.50	ND<0.50	0.94	ND<0.50
	11/13/03	ND<100	ND<20	9.5	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-3	06/03/03	ND<100	ND<20	47	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	11/13/03	ND<100	ND<20	36	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-4	06/03/03	ND<500	ND<100	120	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	11/13/03	ND<100	ND<20	20	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-5	06/03/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	11/13/03	ND<100	ND<20	0.79	ND<0.50	ND<0.50	ND<0.50	NA	NA
MW-6	06/03/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	11/13/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
RW-1	06/03/03	ND<100	22	48	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	11/13/03	ND<100	ND<20	44	ND<0.50	ND<0.50	ND<0.50	NA	NA
S-5	06/03/03	ND<5,000	ND<1,000	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25
	11/13/03	ND<10,000	ND<2,000	ND<50	ND<50	ND<50	ND<50	NA	NA

Note = All fuel oxygenate compounds analyzed using EPA Method 8260B
TBA = tert-Butyl alcohol
MTBE = Methyl tert-butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert butyl ether
TAME = tert-Amyl methyl ether
µg/L = micrograms per liter
ND< = Not Detected at or above laboratory reporting limits
NA = Not Analyzed

**Table 4
Soil Vapor Extraction System
Operational Uptime Information**

ARCO 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**

ARCO 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**

ARCO 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	28	28	0	100	3528	851	2677	24%	20447
09/09/03	25231	49	35	13	72	3563	872	2691	24%	20958
09/23/03	25554	49	35	14	71	3577	886	2691	25%	21280
10/24/03	26105	45	36	9	81	3608	909	2699	25%	21831
11/19/03	26278	26	7	19	28	3634	916	2718	25%	22005
11/26/03	26323	33	9	24	28	3641	918	2723	25%	22050
12/09/03	26636	46	22	24	48	3654	931	2723	25%	22362
12/22/03	26657	33	16	17	48	3667	932	2735	25%	22383

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

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

Date	Sample Location	Vacuum (in H ₂ O)	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. H2O)	Velocity		Flowrate ^{1,2} (scfm)	Hydrocarbon Concentrations (ppmv)				
			/Actual Flow (fpm/acfm)	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 ₂ O)	Velocity		Hydrocarbon Concentrations (ppmv)					
			/Actual Flow (fpm*/acfm)	Flowrate ^{1,2,3} (scfm)	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

¹ Influent Flow Rate previous to 10/17/00, cfm = (Velocity, fpm)(Influent Pipe Area, sq. ft.)(406.8 in.H2O - Vacuum, in.H2O) / (406.8 in.H2O)
 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)]
 where Effluent (after blower) Pipe Diameter = 4"

⁴ Influent Flow Rate 10/17/00 to 4/2/02 cfm = (Actual flow, acfm)(406.8 in.H2O - Vacuum, in.H2O) / (406.8 in.H2O)

Effluent Flow Rate 10/17/00 to 4/2/02 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

³ Influent Flow Rate 08/05/03 to present, scfm = 128.8 * K * D² * {[(14.7 in psi - Vacuum Pressure, psi) * (Pressure Differtial, in H₂O)] / (460° R + T° 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)
 D = Internal Diameter (3.042 inches 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

ARCO 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<0.032	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) / (10⁶)(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) / (10⁶)(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 TeflonTM 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 # 031113-MDI Date 11/13/03 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 <u>or TOC</u>	
MW-1	4					10.17	29.64	}	
MW-2	4					10.69	28.73		
MW-3	4					10.68	32.94		
MW-4	4					9.98	25.05		Np 8.5'
MW-5	4					10.58	24.29		Np 8.5'
MW-6	2					13.11	24.21		Np 8.0'
RW-1	6					10.35	25.49		
S-5	3					9.12	15.68		

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>031113-MD1</u>	Station # <u>Arco 2035</u>
Sampler: <u>John DeJong</u>	Date: <u>11/13/03</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>29.69</u>	Depth to Water: <u>10.17</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer
 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.

<u>12.7</u>	x	<u>3</u>	=	<u>38.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1004	68.4	6.5	649	13	<u>Clear, No odor</u>
1006	67.6	6.4	677	26	
1009	67.3	6.5	688	38.5	

Did well dewater? Yes No Gallons actually evacuated: 38.5

Sampling Time: 1015 Sampling Date: 11/13/03

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXYG, Ethanol All by 8260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 2.3 mg/L

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>03113-MD1</u>	Station # <u>Arco 2035</u>
Sampler: <u>John DeJong</u>	Date: <u>11/13/03</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>28.73</u>	Depth to Water: <u>10.69</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer
 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.

<u>11.7</u>	x	<u>3</u>	=	<u>35.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1027</u>	<u>66.8</u>	<u>6.6</u>	<u>740</u>	<u>12</u>	<u>clear, No odor</u>
<u>1029</u>	<u>67.2</u>	<u>6.6</u>	<u>745</u>	<u>24</u>	
<u>1032</u>	<u>67.1</u>	<u>6.5</u>	<u>745</u>	<u>35.5</u>	

Did well dewater? Yes No
 Gallons actually evacuated: 35.5

Sampling Time: 1040 Sampling Date: 11/13/03

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXYG, Ethanol All by 8260

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>031113-MD1</u>	Station # <u>Arco 2035</u>
Sampler: <u>John DeJong</u>	Date: <u>11/13/03</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>32.94</u>	Depth to Water: <u>10.68</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>Ysi</u> HACH

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

Purge Method: Bailer
 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.

<u>14.5</u>	X	<u>3</u>	=	<u>43.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1049</u>	<u>65.2</u>	<u>6.7</u>	<u>621</u>	<u>15</u>	<u>cloudy, tan, slight fuel odor</u>
<u>1052</u>	<u>65.6</u>	<u>6.8</u>	<u>614</u>	<u>30</u>	
<u>1055</u>	<u>65.7</u>	<u>6.8</u>	<u>611</u>	<u>44</u>	

Did well dewater? Yes No Gallons actually evacuated: 44

Sampling Time: 100 Sampling Date: 11/13/03

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXYs, Ethanol All by 8260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 3.8 mg/L

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>03113-MD1</u>	Station # <u>Arco 2035</u>
Sampler: <u>John DeJong</u>	Date: <u>11/13/03</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>25.05</u>	Depth to Water: <u>9.98</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: ~~Bailer~~
~~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.

<u>No purge</u>	<u>8.5' 3</u>	= _____ Gals.
1 Case Volume (Gals.)	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>940</u>	<u>68.2</u>	<u>6.2</u>	<u>429</u>	<u>—</u>	<u>clear, No odor</u>

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: 940 Sampling Date: 11/13/03

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXYG, Ethanol All by 8260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 1.3 mg/L

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>03113-MD1</u>	Station # <u>Arco 2035</u>
Sampler: <u>John DeJong</u>	Date: <u>11/13/03</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>24.29</u>	Depth to Water: <u>10.58</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method:

- Bailer
- 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.

<u>No purge @ 8.5'</u>	<u>8.5'</u>	<u>8.5'</u>
1 Case Volume (Gals.)	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>8:50</u>	<u>64.7</u>	<u>5.7</u>	<u>682</u>	—	<u>clear, No odor</u>

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: 8:50 Sampling Date: 11/13/03

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXYG, Ethanol, Alky 8250

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	<u>1.4</u>	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>G3113-MD1</u>	Station # <u>Arco 2035</u>
Sampler: <u>John DeJong</u>	Date: <u>11/13/03</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>24.21</u>	Depth to Water: <u>13.11</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer
 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.

<u>NP @ 80'</u> 1 Case Volume (Gals.)	X	<u>3</u> Specified Volumes	=	_____ Gals. Calculated Volume
--	---	-------------------------------	---	----------------------------------

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1205</u>	<u>66.3</u>	<u>6.8</u>	<u>679</u>	—	<u>clear, No odor</u>

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: 12 10 Sampling Date: 11/13/03

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

Analyzed for: TPH-G TEX MTBE TPH-D Other: OXYG, Ethanol All by 8260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 1.2 mg/L

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>03113-MD1</u>	Station # <u>Arco 2035</u>
Sampler: <u>John DeJong</u>	Date: <u>11/13/03</u>
Well I.D.: <u>RW-1</u>	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: <u>25.49</u>	Depth to Water: <u>10.35</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

Sampling Method: Bailer
Disposable Bailer
 Extraction Port
 Other: _____

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

<u>22.3</u>	x	<u>3</u>	=	<u>66.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>#1126</u>	<u>69.1</u>	<u>6.7</u>	<u>732</u>	<u>23</u>	<u>very strong fuel odor</u>
<u>1131</u>	<u>68.4</u>	<u>6.7</u>	<u>742</u>	<u>46</u>	
<u>1136</u>	<u>68.1</u>	<u>6.6</u>	<u>753</u>	<u>67</u>	

Did well dewater? Yes No Gallons actually evacuated: 67

Sampling Time: 1145 Sampling Date: 11/13/03

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXYG, Ethanol All by 8260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 1.3 mg/L

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>G3113-MD1</u>	Station # <u>Arco 2035</u>
Sampler: <u>John DeJong</u>	Date: <u>11/13/03</u>
Well I.D.: <u>S-5</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: <u>15.68</u>	Depth to Water: <u>9.12</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer
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.

<u>2.4</u>	x	<u>3</u>	=	<u>7.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1221	66.4	6.6	511	2.4	cloudy, gas odor
				2.8	DTW = 13.61
1230	68.3	6.5	290	—	Shock DTW = 13.61

Did well dewater? Yes No Gallons actually evacuated: 2.8

Sampling Time: 1230 Sampling Date: 11/13/03

Sample I.D.: S-5 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxy, Ethanol All by 8260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 1.4 mg/L

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

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 Group Environmental Management 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

2 December, 2003

Scott Robinson
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland, CA 94607

RE: ARCO #2035, Albany, CA
Work Order: MMK0613

Enclosed are the results of analyses for samples received by the laboratory on 11/14/03 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen
Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: INTRIM-50231
Project Manager: Scott Robinson

MMK0613
Reported:
12/02/03 13:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MMK0613-01	Water	11/13/03 10:15	11/14/03 12:00
MW-2	MMK0613-02	Water	11/13/03 10:40	11/14/03 12:00
MW-3	MMK0613-03	Water	11/13/03 11:00	11/14/03 12:00
MW-4	MMK0613-04	Water	11/13/03 09:40	11/14/03 12:00
MW-5	MMK0613-05	Water	11/13/03 08:50	11/14/03 12:00
MW-6	MMK0613-06	Water	11/13/03 12:10	11/14/03 12:00
RW-1	MMK0613-07	Water	11/13/03 11:45	11/14/03 12:00
S-5	MMK0613-08	Water	11/13/03 12:30	11/14/03 12:00

There were no custody seals that were received with this project.

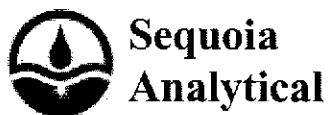
URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: ARCO #2035, Albany, CA
 Project Number: INTRIM-50231
 Project Manager: Scott Robinson

 MMK0613
 Reported:
 12/02/03 13:44

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-1 (MMK0613-01) Water Sampled: 11/13/03 10:15 Received: 11/14/03 12:00										
Ethanol	ND	100		ug/l	1	3K25005	11/25/03	11/25/03	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	
Methyl tert-butyl ether	0.95	0.50		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50		"	"	"	"	"	"	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics	ND	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>			101 %		78-129	"	"	"	"	
MW-2 (MMK0613-02) Water Sampled: 11/13/03 10:40 Received: 11/14/03 12:00										
Ethanol	ND	100		ug/l	1	3K25005	11/25/03	11/26/03	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	
Methyl tert-butyl ether	9.5	0.50		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50		"	"	"	"	"	"	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics	ND	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>			104 %		78-129	"	"	"	"	



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 Morgan Hill, CA 95037
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URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

Project: ARCO #2035, Albany, CA
 Project Number: INTRIM-50231
 Project Manager: Scott Robinson

MMK0613
 Reported:
 12/02/03 13:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMK0613-03) Water Sampled: 11/13/03 11:00 Received: 11/14/03 12:00									
Ethanol	ND	100	ug/l	1	3K25005	11/25/03	11/26/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	36	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	53	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>108 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
MW-4 (MMK0613-04) Water Sampled: 11/13/03 09:40 Received: 11/14/03 12:00									
Ethanol	ND	100	ug/l	1	3K25005	11/25/03	11/26/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	20	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>105 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	



URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: INTRIM-50231
Project Manager: Scott Robinson

MMK0613
Reported:
12/02/03 13:44

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-5 (MMK0613-05) Water Sampled: 11/13/03 08:50 Received: 11/14/03 12:00										
Ethanol	ND	100		ug/l	1	3K25005	11/25/03	11/26/03	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	
Methyl tert-butyl ether	0.79	0.50		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50		"	"	"	"	"	"	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics	ND	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>			102 %		78-129	"	"	"	"	
MW-6 (MMK0613-06) Water Sampled: 11/13/03 12:10 Received: 11/14/03 12:00										
Ethanol	ND	100		ug/l	1	3K25005	11/25/03	11/26/03	EPA 8260B	
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		"	"	"	"	"	"	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics	ND	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>			99.6 %		78-129	"	"	"	"	

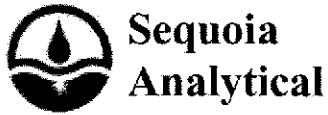
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: INTRIM-50231
Project Manager: Scott Robinson

MMK0613
Reported:
12/02/03 13:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-1 (MMK0613-07) Water Sampled: 11/13/03 11:45 Received: 11/14/03 12:00									
Ethanol	ND	100	ug/l	1	3K26005	11/26/03	11/26/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	44	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Benzene	29	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	130	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	78-129	"	"	"	"	"	
S-5 (MMK0613-08) Water Sampled: 11/13/03 12:30 Received: 11/14/03 12:00									
Ethanol	ND	10000	ug/l	100	3K25005	11/25/03	11/26/03	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	"	"	"	"	"	"	
Benzene	520	50	"	"	"	"	"	"	
Toluene	120	50	"	"	"	"	"	"	
Ethylbenzene	690	50	"	"	"	"	"	"	
Xylenes (total)	5900	50	"	"	"	"	"	"	
Gasoline Range Organics	31000	5000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	78-129	"	"	"	"	"	



885 Jarvis Drive
 Morgan Hill, CA 95037
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URS Corporation [Arco] 500 12th Street, Suite 200 Oakland CA, 94607	Project: ARCO #2035, Albany, CA Project Number: INTRIM-50231 Project Manager: Scott Robinson	MMK0613 Reported: 12/02/03 13:44
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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
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Batch 3K25005 - EPA 5030B P/T

Blank (3K25005-BLK1)

Prepared & Analyzed: 11/25/03

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	ND	50	"							

Surrogate: 1,2-Dichloroethane-d4 5.33 " 5.00 107 78-129

Laboratory Control Sample (3K25005-BS1)

Prepared & Analyzed: 11/25/03

Ethanol	174	100	ug/l	200		87.0	31-186			
tert-Butyl alcohol	37.9	20	"	50.0		75.8	0-206			
Methyl tert-butyl ether	9.25	0.50	"	10.0		92.5	63-137			
Di-isopropyl ether	10.1	0.50	"	10.0		101	76-130			
Ethyl tert-butyl ether	9.75	0.50	"	10.0		97.5	61-141			
tert-Amyl methyl ether	9.51	0.50	"	10.0		95.1	56-140			
1,2-Dichloroethane	10.0	0.50	"	10.0		100	77-136			
1,2-Dibromoethane (EDB)	8.93	0.50	"	10.0		89.3	77-132			
Benzene	10.5	0.50	"	10.0		105	78-124			
Toluene	9.47	0.50	"	10.0		94.7	78-129			
Ethylbenzene	9.25	0.50	"	10.0		92.5	84-117			
Xylenes (total)	27.1	0.50	"	30.0		90.3	83-125			

Surrogate: 1,2-Dichloroethane-d4 5.14 " 5.00 103 78-129

URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: ARCO #2035, Albany, CA
 Project Number: INTRIM-50231
 Project Manager: Scott Robinson

 MMK0613
 Reported:
 12/02/03 13:44

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
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Batch 3K25005 - EPA 5030B P/T
Laboratory Control Sample (3K25005-BS2)

Prepared & Analyzed: 11/25/03

Methyl tert-butyl ether	8.06	0.50	ug/l	9.92		81.2	63-137			
Benzene	5.40	0.50	"	6.40		84.4	78-124			
Toluene	28.9	0.50	"	29.7		97.3	78-129			
Ethylbenzene	6.81	0.50	"	6.96		97.8	84-117			
Xylenes (total)	33.8	0.50	"	33.7		100	83-125			
Gasoline Range Organics	402	50	"	440		91.4	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.22		"	5.00		104	78-129			

Laboratory Control Sample Dup (3K25005-BSD1)

Prepared & Analyzed: 11/25/03

Ethanol	199	100	ug/l	200		99.5	31-186	13.4	37	
tert-Butyl alcohol	44.6	20	"	50.0		89.2	0-206	16.2	22	
Methyl tert-butyl ether	9.71	0.50	"	10.0		97.1	63-137	4.85	13	
Di-isopropyl ether	9.72	0.50	"	10.0		97.2	76-130	3.83	9	
Ethyl tert-butyl ether	9.73	0.50	"	10.0		97.3	61-141	0.205	9	
tert-Amyl methyl ether	9.68	0.50	"	10.0		96.8	56-140	1.77	12	
1,2-Dichloroethane	10.2	0.50	"	10.0		102	77-136	1.98	13	
1,2-Dibromoethane (EDB)	9.21	0.50	"	10.0		92.1	77-132	3.09	9	
Benzene	10.1	0.50	"	10.0		101	78-124	3.88	12	
Toluene	9.15	0.50	"	10.0		91.5	78-129	3.44	10	
Ethylbenzene	9.10	0.50	"	10.0		91.0	84-117	1.63	10	
Xylenes (total)	26.9	0.50	"	30.0		89.7	83-125	0.741	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.12		"	5.00		102	78-129			

Laboratory Control Sample Dup (3K25005-BSD2)

Prepared & Analyzed: 11/25/03

Methyl tert-butyl ether	8.38	0.50	ug/l	9.92		84.5	63-137	3.89	13	
Benzene	5.63	0.50	"	6.40		88.0	78-124	4.17	12	
Toluene	30.1	0.50	"	29.7		101	78-129	4.07	10	
Ethylbenzene	7.32	0.50	"	6.96		105	84-117	7.22	10	
Xylenes (total)	34.4	0.50	"	33.7		102	83-125	1.76	11	
Gasoline Range Organics	412	50	"	440		93.6	70-113	2.46	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.09		"	5.00		102	78-129			

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: ARCO #2035, Albany, CA
 Project Number: INTRIM-50231
 Project Manager: Scott Robinson

 MMK0613
 Reported:
 12/02/03 13:44

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
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Batch 3K26005 - EPA 5030B P/T
Blank (3K26005-BLK1)

Prepared & Analyzed: 11/26/03

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	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.31		"	5.00		106	78-129			

Laboratory Control Sample (3K26005-BS1)

Prepared & Analyzed: 11/26/03

Ethanol	189	100	ug/l	200		94.5	31-186			
tert-Butyl alcohol	38.9	20	"	50.0		77.8	0-206			
Methyl tert-butyl ether	9.15	0.50	"	10.0		91.5	63-137			
Di-isopropyl ether	9.56	0.50	"	10.0		95.6	76-130			
Ethyl tert-butyl ether	9.49	0.50	"	10.0		94.9	61-141			
tert-Amyl methyl ether	9.40	0.50	"	10.0		94.0	56-140			
1,2-Dichloroethane	9.78	0.50	"	10.0		97.8	77-136			
1,2-Dibromoethane (EDB)	8.97	0.50	"	10.0		89.7	77-132			
Benzene	10.0	0.50	"	10.0		100	78-124			
Toluene	9.27	0.50	"	10.0		92.7	78-129			
Ethylbenzene	9.13	0.50	"	10.0		91.3	84-117			
Xylenes (total)	26.8	0.50	"	30.0		89.3	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.12		"	5.00		102	78-129			

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: ARCO #2035, Albany, CA
 Project Number: INTRIM-50231
 Project Manager: Scott Robinson

 MMK0613
 Reported:
 12/02/03 13:44

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
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Batch 3K26005 - EPA 5030B P/T
Laboratory Control Sample (3K26005-BS2)

Prepared & Analyzed: 11/26/03

Methyl tert-butyl ether	8.20	0.50	ug/l	9.92		82.7	63-137			
Benzene	5.66	0.50	"	6.40		88.4	78-124			
Toluene	30.3	0.50	"	29.7		102	78-129			
Ethylbenzene	7.13	0.50	"	6.96		102	84-117			
Xylenes (total)	34.3	0.50	"	33.7		102	83-125			
Gasoline Range Organics	422	50	"	440		95.9	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.15</i>		<i>"</i>	<i>5.00</i>		<i>103</i>	<i>78-129</i>			

Laboratory Control Sample Dup (3K26005-BSD1)

Prepared: 11/26/03 Analyzed: 11/27/03

Ethanol	194	100	ug/l	200		97.0	31-186	2.61	37	
tert-Butyl alcohol	38.3	20	"	50.0		76.6	0-206	1.55	22	
Methyl tert-butyl ether	9.56	0.50	"	10.0		95.6	63-137	4.38	13	
Di-isopropyl ether	9.74	0.50	"	10.0		97.4	76-130	1.87	9	
Ethyl tert-butyl ether	9.82	0.50	"	10.0		98.2	61-141	3.42	9	
tert-Amyl methyl ether	9.81	0.50	"	10.0		98.1	56-140	4.27	12	
1,2-Dichloroethane	10.2	0.50	"	10.0		102	77-136	4.20	13	
1,2-Dibromoethane (EDB)	9.18	0.50	"	10.0		91.8	77-132	2.31	9	
Benzene	10.4	0.50	"	10.0		104	78-124	3.92	12	
Toluene	9.57	0.50	"	10.0		95.7	78-129	3.18	10	
Ethylbenzene	9.38	0.50	"	10.0		93.8	84-117	2.70	10	
Xylenes (total)	28.0	0.50	"	30.0		93.3	83-125	4.38	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.23</i>		<i>"</i>	<i>5.00</i>		<i>105</i>	<i>78-129</i>			

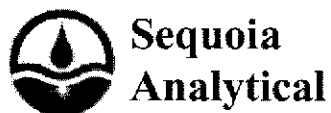
Laboratory Control Sample Dup (3K26005-BSD2)

Prepared: 11/26/03 Analyzed: 11/27/03

Methyl tert-butyl ether	8.29	0.50	ug/l	9.92		83.6	63-137	1.09	13	
Benzene	5.89	0.50	"	6.40		92.0	78-124	3.98	12	
Toluene	30.3	0.50	"	29.7		102	78-129	0.00	10	
Ethylbenzene	7.47	0.50	"	6.96		107	84-117	4.66	10	
Xylenes (total)	35.6	0.50	"	33.7		106	83-125	3.72	11	
Gasoline Range Organics	409	50	"	440		93.0	70-113	3.13	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.01</i>		<i>"</i>	<i>5.00</i>		<i>100</i>	<i>78-129</i>			

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco] 500 12th Street, Suite 200 Oakland CA, 94607	Project: ARCO #2035, Albany, CA Project Number: INTRIM-50231 Project Manager: Scott Robinson	MMK0613 Reported: 12/02/03 13:44
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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
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Batch 3K26005 - EPA 5030B P/T

Matrix Spike (3K26005-MS1)	Source: MMK0795-03			Prepared: 11/26/03		Analyzed: 11/27/03				
Methyl tert-butyl ether	15700	250	ug/l	4960	12000	74.6	63-137			
Benzene	2810	250	"	3200	ND	87.8	78-124			
Toluene	15300	250	"	14800	35	103	78-129			
Ethylbenzene	3600	250	"	3480	ND	103	84-117			
Xylenes (total)	17500	250	"	16800	ND	104	83-125			
Gasoline Range Organics	227000	25000	"	220000	16000	95.9	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.13</i>		<i>"</i>	<i>5.00</i>		<i>103</i>	<i>78-129</i>			
Matrix Spike Dup (3K26005-MSD1)	Source: MMK0795-03			Prepared: 11/26/03		Analyzed: 11/27/03				
Methyl tert-butyl ether	15800	250	ug/l	4960	12000	76.6	63-137	0.635	13	
Benzene	2760	250	"	3200	ND	86.2	78-124	1.80	12	
Toluene	14800	250	"	14800	35	99.8	78-129	3.32	10	
Ethylbenzene	3560	250	"	3480	ND	102	84-117	1.12	10	
Xylenes (total)	17100	250	"	16800	ND	102	83-125	2.31	11	
Gasoline Range Organics	217000	25000	"	220000	16000	91.4	70-113	4.50	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.32</i>		<i>"</i>	<i>5.00</i>		<i>106</i>	<i>78-129</i>			



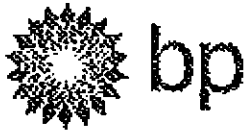
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: INTRIM-50231
Project Manager: Scott Robinson

MMK0613
Reported:
12/02/03 13:44

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



Chain of Custody Record

mmk0613

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

Date: 11/13/03

On-site Time: 8:30 Temp: 60
 Off-site Time: 1:30 Temp: 65
 Sky Conditions: partly cloudy
 Meteorological Events:
 Wind Speed: Direction:

Send To:	BP/GEM Facility No.: <u>ARCO 2035</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>1001 SAN PABLO AVE, ALBANY, CA</u>	Address: <u>500 12th St., Ste. 200</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 2035</u>	<u>Oakland, CA 94609-4014</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.eosper@URSCorp.com</u>
Lab PM <u>Theresa Allen</u>	California Global ID #: <u>T0600100081</u>	Consultant/Contractor Project No.: <u>15-00002035.01 00427</u>
Tele/Fax: <u>408-776-9600 / 408-782-0308</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3260</u>
Report Type & QC Level: <u>1 Send EIM Reports</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/GEM Account No.:	<u>Morega, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
Lab Bottle Order No.:	Tele/Fax: <u>925-289-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM-50231</u>

Item No.	Sample Description	Time	Matrix			Laboratory No.	No. of containers	Preservatives			Requested Analysis							Sample Point Lab/Long and Comments					
			Soil/Solid	Water/Liquid	Sediment			Air	Unreserved	H ₂ O ₂	HNO ₃	HCl	TPH-C/BTEX (8015/8021/8026)	TPH-D (8015)	MTBE (8021)	MTBB (8260)	MTBE, TAME, ETBE (8015/8021/8026)		1,2-DCA & EDB (8260)	Trihalomethanes (8260)			
1	✓ MW-1	1015		✓		<u>mmk0613-01</u>	3							✓									
2	✓ MW-2	1040		✓		<u>-02</u>	3							✓									
3	✓ MW-3	1100		✓		<u>-03</u>	3							✓									
4	✓ MW-4	940		✓		<u>-04</u>	3							✓									
5	✓ MW-5	855		✓		<u>-05</u>	3							✓									
6	✓ MW-6	1210		✓		<u>-06</u>	3							✓									
7	✓ RW-1	1146		✓		<u>-07</u>	3							✓									
8	✓ S-5	1230		✓		<u>-08</u>	3							✓									
9																							
10																							

Sampler's Name: <u>Jonathan DeLong</u>	Relinquished By / Affiliation: <u>Chris Mack</u>	Date: <u>11/14</u>	Time: <u>11:30</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/14</u>	Time: <u>12:00</u>
Sampler's Company: <u>Blanz Tech Services</u>						
Event Date:						
Method:						
Tracking No.:						

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

Temperature Blank Yes No Cooler Temperature on Receipt Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
 REC. BY (PRINT): TL
 WORKORDER: MMR0613

DATE REC'D AT LAB: 11/14/03
 TIME REC'D AT LAB: 1670
 DATE LOGGED IN: 11-19-03

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 / <input checked="" type="radio"/> Absent Intact / Broken*	01		MW-1	3) Veno	HU	L	11/13/03	32110220
2. Chain-of-Custody	Present / <input checked="" type="radio"/> Absent*	02		MW-2					
3. Traffic Reports or Packing List:	Present / <input checked="" type="radio"/> Absent*	03		MW-3					
4. Airbill:	Airbill / Sticker Present / <input checked="" type="radio"/> Absent*	04		MW-4					
5. Airbill #:		05		MW-5					
6. Sample Labels:	Present / <input checked="" type="radio"/> Absent	06		MW-6					
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody	07		RW-1					
8. Sample Condition:	Intact / Broken* / Leaking*	08		S-5					
9. Does information on chain-of-custody, traffic reports and sample labels agree?	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
10. Sample received within hold time:	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
11. Adequate sample volume received?	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
12. Proper Preservatives used:	<input checked="" type="radio"/> Yes / <input type="radio"/> No*								
13. Temp Rec. at Lab: Is temp 4 +/- 2°C? <small>(Acceptance range for samples requiring thermal pres.)</small> Option (if any): METALS / OFF ON ICE Problem COC	<u>5°C</u> <input checked="" type="radio"/> Yes / <input type="radio"/> No**								

11/15/03 TL

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



**Sequoia
Analytical**

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Morgan Hill, CA 95037
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18 August, 2003

Scott Robinson
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland, CA 94607

RE: ARCO #2035, Albany, CA
Work Order: MMH0135

Enclosed are the results of analyses for samples received by the laboratory on 08/05/03 13:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen
Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: N/P
Project Manager: Scott Robinson

MMH0135
Reported:
08/18/03 09:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INF	MMH0135-01	Air	08/05/03 07:40	08/05/03 13:25
EFF	MMH0135-02	Air	08/05/03 07:33	08/05/03 13:25

There were no custody seals that were received with this project.

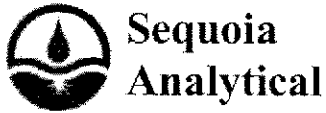
URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: ARCO #2035, Albany, CA
 Project Number: N/P
 Project Manager: Scott Robinson

 MMH0135
 Reported:
 08/18/03 09:42

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX by EPA 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
INF (MMH0135-01) Air Sampled: 08/05/03 07:40 Received: 08/05/03 13:25										
Gasoline Range Organics (C6-C10)	ND	2.4		ppmv	1	3H06008	08/06/03	08/06/03	8015Bm/8021B	
Benzene	ND	0.031		"	"	"	"	"	"	
Toluene	0.035	0.027		"	"	"	"	"	"	
Ethylbenzene	ND	0.023		"	"	"	"	"	"	
Xylenes (total)	0.040	0.023		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.14		"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		79.9 %		56-134		"	"	"	"	
EFF (MMH0135-02) Air Sampled: 08/05/03 07:33 Received: 08/05/03 13:25										
Gasoline Range Organics (C6-C10)	ND	2.4		ppmv	1	3H06008	08/06/03	08/06/03	8015Bm/8021B	
Benzene	ND	0.031		"	"	"	"	"	"	
Toluene	ND	0.027		"	"	"	"	"	"	
Ethylbenzene	ND	0.023		"	"	"	"	"	"	
Xylenes (total)	0.087	0.023		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.14		"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		79.9 %		56-134		"	"	"	"	



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URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

Project: ARCO #2035, Albany, CA
 Project Number: N/P
 Project Manager: Scott Robinson

MMH0135
 Reported:
 08/18/03 09:42

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Batch 3H06008 - EPA 5030B [P/T]

Blank (3H06008-BLK1)

Prepared & Analyzed: 08/06/03

Gasoline Range Organics (C6-C10)	ND	2.4	ppmv							
Benzene	ND	0.031	"							
Toluene	ND	0.027	"							
Ethylbenzene	ND	0.023	"							
Xylenes (total)	ND	0.023	"							
Methyl tert-butyl ether	ND	0.14	"							

Surrogate: *a,a,a*-Trifluorotoluene 1.21 " 1.34 90.3 56-134

Laboratory Control Sample (3H06008-BS1)

Prepared & Analyzed: 08/06/03

Benzene	0.588	0.031	ppmv	0.627	93.8	62-125				
Toluene	0.498	0.027	"	0.532	93.6	68-121				
Ethylbenzene	0.436	0.023	"	0.462	94.4	75-125				
Xylenes (total)	1.24	0.023	"	1.38	89.9	76-121				

Surrogate: *a,a,a*-Trifluorotoluene 1.30 " 1.34 97.0 56-134

Laboratory Control Sample (3H06008-BS2)

Prepared & Analyzed: 08/06/03

Gasoline Range Organics (C6-C10)	13.1	2.4	ppmv	14.2	92.3	65-142				
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Surrogate: *a,a,a*-Trifluorotoluene 1.20 " 1.34 89.6 56-134

Laboratory Control Sample Dup (3H06008-BSD1)

Prepared & Analyzed: 08/06/03

Benzene	0.528	0.031	ppmv	0.627	84.2	62-125	10.8	31		
Toluene	0.454	0.027	"	0.532	85.3	68-121	9.24	29		
Ethylbenzene	0.400	0.023	"	0.462	86.6	75-125	8.61	32		
Xylenes (total)	1.20	0.023	"	1.38	87.0	76-121	3.28	29		

Surrogate: *a,a,a*-Trifluorotoluene 1.22 " 1.34 91.0 56-134

Laboratory Control Sample Dup (3H06008-BSD2)

Prepared & Analyzed: 08/06/03

Gasoline Range Organics (C6-C10)	14.6	2.4	ppmv	14.2	103	65-142	10.8	50		
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Surrogate: *a,a,a*-Trifluorotoluene 1.34 " 1.34 100 56-134

Sequoia Analytical - Morgan Hill

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.

URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: N/P
Project Manager: Scott Robinson

MMH0135
Reported:
08/18/03 09:42

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



Chain of Custody Record

Project Name: Station 2035 - 1001 San Pablo Ave, Albany, CA
 Business Unit: Atlantic Richfield Company/Northern CA Portfolio
 BP Laboratory Contract Number: 4 6 1 0 0 0

Date: 080503

Requested Due Date: (mm/dd/yy - 2 weeks from sampling date) **MMH 0135**

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: Station 2035	Consultant: URS Oakland
Lab Name: Sequoia Analytical	BP/GEM Facility Address: 1001 San Pablo Ave, Albany, CA	Address: 500 12th Street, #200
Lab Address: 885 Jarvis Drive	Site ID No. Station 2035	Oakland, CA 94607
Morgan Hill, CA 95037	California Global ID #: T0660100081	e-mail EDD: Scott_Robinson@URSCorp.com
	BP/GEM PM Contact: Paul Supple	Consultant Project No.: J5-00002035.01
Lab PM: Latonya Pelt	Address: P.O. Box 6549, Moraga, CA 94570	Consultant Tele/Fax: 510-874-3280/510-874-3268
Tele/Fax: 408-782-8154/408-782-6308	Tele/Fax: 925-299-8891/925-299-8872	Consultant PM: Scott Robinson
Report Type & QC Level: Normal		Invoice to: Atlantic Richfield Company
BP/GEM Account No.:		BP/GEM Work Release No:

Item No.	Field Point ID	Sample ID	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis			Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-g (8015)	BTEX (8021)	MTBE (8021)	
1	INFL	INFL	0740				X	01	1					X	X	X	Report in ppmv
2	IRFL	IRFL	0733				X	02	1					X	X	X	Report in ppmv
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler's Name: <i>M. Gomes</i>	Relinquished By / Affiliation: <i>M. Gomes URS</i>	Date: <i>080503</i>	Time: <i>1305</i>	Accepted By / Affiliation: <i>AM</i>	Date: <i>08/03</i>	Time: <i>1225</i>
Sampler's Company: URS Oakland						
Shipment Date: <i>080503</i>						
Shipment Method: Hand Deliver						
Shipment Tracking No:						

Special Instructions: G/BTEX/M stands for TPH-g/BTEX/MTBE by JPA Method 8021

Custody Seals in Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt °F/C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: DD
 REC. BY (PRINT): AD
 WORKORDER: MMH0135

DATE REC'D AT LAB: 8/5/03
 TIME REC'D AT LAB: 1330
 DATE LOGGED IN: 8-5-03

Drinking water for regulatory purposes: YES/NO YES NO
 Wastewater for regulatory purposes: YES/NO 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		fnfl	1 bag	—	Air	8/5/03	AD 8/5/03
	02		FFI	"	—	↓	↓	
2. Chain-of-Custody Present / Absent*								
3. Traffic Reports or Packing List: Present / Absent								
4. Airbill: Airbill / Sticker Present / Absent								
5. Airbill #:								
6. Sample Labels: Present / Absent								
7. Sample IDs: Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: Intact / Broken* / Leaking*								
9. Does information on custody reports, traffic reports and sample labels agree? Yes / No*								
10. Sample received within hold time: Yes / No*								
11. Proper Preservatives used: Yes / No*								
12. Temp Rec. at Lab: Is temp 4 +/- 2°C? Yes / No**								

(Acceptance range for samples requiring thermal pres.)
 **Exception (if any): Metals / DFF (Direct From Field) or Problem COC

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



2 October, 2003

Scott Robinson
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland, CA 94607

RE: ARCO #2035, Albany, CA
Work Order: MMI0630

Enclosed are the results of analyses for samples received by the laboratory on 09/23/03 15:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen
Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: INTRIM-50231
Project Manager: Scott Robinson

MMI0630
Reported:
10/02/03 09:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFF	MMI0630-01	Air	09/23/03 13:29	09/23/03 15:50
INF	MMI0630-02	Air	09/23/03 13:35	09/23/03 15:50

There were no custody seals that were received with this project.



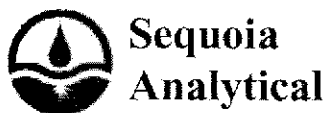
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: INTRIM-50231
Project Manager: Scott Robinson

MMI0630
Reported:
10/02/03 09:10

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B, BTEX by EPA 8021B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
EFF (MMI0630-01) Air Sampled: 09/23/03 13:29 Received: 09/23/03 15:50										
Gasoline Range Organics (C6-C10)	ND	2.4		ppmv	1	3126035	09/26/03	09/26/03	8015Bm/8021B	
Benzene	ND	0.031		"	"	"	"	"	"	
Toluene	ND	0.027		"	"	"	"	"	"	O-09
Ethylbenzene	ND	0.023		"	"	"	"	"	"	O-09
Xylenes (total)	ND	0.047		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.14		"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.3 %		56-134		"	"	"	"	
INF (MMI0630-02) Air Sampled: 09/23/03 13:35 Received: 09/23/03 15:50										
Gasoline Range Organics (C6-C10)	ND	2.4		ppmv	1	3126035	09/26/03	09/26/03	8015Bm/8021B	
Benzene	0.039	0.031		"	"	"	"	"	"	
Toluene	ND	0.027		"	"	"	"	"	"	O-09
Ethylbenzene	ND	0.023		"	"	"	"	"	"	O-09
Xylenes (total)	ND	0.047		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.14		"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		106 %		56-134		"	"	"	"	

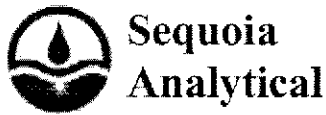


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URS Corporation [Arco] 500 12th Street, Suite 200 Oakland CA, 94607	Project: ARCO #2035, Albany, CA Project Number: INTRIM-50231 Project Manager: Scott Robinson	MMI0630 Reported: 10/02/03 09:10
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Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B, BTEXM by EPA 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFF (MMI0630-01) Air Sampled: 09/23/03 13:29 Received: 09/23/03 15:50									
Gasoline Range Organics (C6-C10)	ND	10	mg/m ³ Air	1	3126035	09/26/03	09/26/03	8015Bm/8021B	
Benzene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.10	"	"	"	"	"	"	O-09
Ethylbenzene	ND	0.10	"	"	"	"	"	"	O-09
Xylenes (total)	ND	0.20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.2 %	56-134		"	"	"	"	
INF (MMI0630-02) Air Sampled: 09/23/03 13:35 Received: 09/23/03 15:50									
Gasoline Range Organics (C6-C10)	ND	10	mg/m ³ Air	1	3126035	09/26/03	09/26/03	8015Bm/8021B	
Benzene	0.12	0.10	"	"	"	"	"	"	
Toluene	ND	0.10	"	"	"	"	"	"	O-09
Ethylbenzene	ND	0.10	"	"	"	"	"	"	O-09
Xylenes (total)	ND	0.20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		106 %	56-134		"	"	"	"	



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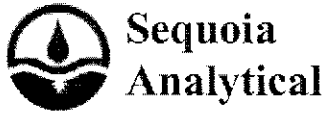
URS Corporation [Arco] 500 12th Street, Suite 200 Oakland CA, 94607	Project: ARCO #2035, Albany, CA Project Number: INTRIM-50231 Project Manager: Scott Robinson	MMI0630 Reported: 10/02/03 09:10
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Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B, BTEX by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3I26035 - EPA 5030B [P/T]

Blank (3I26035-BLK1)										
										Prepared & Analyzed: 09/26/03
Gasoline Range Organics (C6-C10)	ND	2.4	ppmv							
Benzene	ND	0.031	"							
Toluene	ND	0.027	"							
Ethylbenzene	ND	0.023	"							
Xylenes (total)	ND	0.047	"							
Methyl tert-butyl ether	ND	0.14	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	1.33		"	1.34		99.3	56-134			
Laboratory Control Sample (3I26035-BS1)										
										Prepared & Analyzed: 09/26/03
Benzene	0.671	0.031	ppmv	0.627		107	62-125			
Toluene	0.580	0.027	"	0.532		109	68-121			
Ethylbenzene	0.476	0.023	"	0.462		103	75-125			
Xylenes (total)	1.31	0.047	"	1.38		94.9	76-121			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	1.36		"	1.34		101	56-134			
Laboratory Control Sample (3I26035-BS2)										
										Prepared & Analyzed: 09/26/03
Gasoline Range Organics (C6-C10)	14.4	2.4	ppmv	14.2		101	65-142			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	1.45		"	1.34		108	56-134			
Laboratory Control Sample Dup (3I26035-BSD1)										
										Prepared & Analyzed: 09/26/03
Benzene	0.678	0.031	ppmv	0.627		108	62-125	1.04	31	
Toluene	0.591	0.027	"	0.532		111	68-121	1.88	29	O-09
Ethylbenzene	0.490	0.023	"	0.462		106	75-125	2.90	32	O-09
Xylenes (total)	1.36	0.047	"	1.38		98.6	76-121	3.75	29	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	1.39		"	1.34		104	56-134			
Laboratory Control Sample Dup (3I26035-BSD2)										
										Prepared & Analyzed: 09/26/03
Gasoline Range Organics (C6-C10)	11.9	2.4	ppmv	14.2		83.8	65-142	19.0	50	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	1.35		"	1.34		101	56-134			



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URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: INTRIM-50231
Project Manager: Scott Robinson

MMI0630
Reported:
10/02/03 09:10

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3I26035 - EPA 5030B [P/T]

Blank (3I26035-BLK1)

Prepared & Analyzed: 09/26/03

Gasoline Range Organics (C6-C10)	ND	10	mg/m ³ Air							
Benzene	ND	0.10	"							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
Xylenes (total)	ND	0.20	"							
Methyl tert-butyl ether	ND	0.50	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	7.95		"	8.00		99.4	56-134			

Laboratory Control Sample (3I26035-BS1)

Prepared & Analyzed: 09/26/03

Benzene	2.14	0.10	mg/m ³ Air	2.00		107	62-125			
Toluene	2.18	0.10	"	2.00		109	68-121			
Ethylbenzene	2.06	0.10	"	2.00		103	75-125			
Xylenes (total)	5.69	0.20	"	6.00		94.8	76-121			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.12		"	8.00		102	56-134			

Laboratory Control Sample (3I26035-BS2)

Prepared & Analyzed: 09/26/03

Gasoline Range Organics (C6-C10)	50.9	10	mg/m ³ Air	50.0		102	65-142			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.65		"	8.00		108	56-134			

Laboratory Control Sample Dup (3I26035-BSD1)

Prepared & Analyzed: 09/26/03

Benzene	2.16	0.10	mg/m ³ Air	2.00		108	62-125	0.930	31	
Toluene	2.22	0.10	"	2.00		111	68-121	1.82	29	O-09
Ethylbenzene	2.13	0.10	"	2.00		106	75-125	3.34	32	O-09
Xylenes (total)	5.90	0.20	"	6.00		98.3	76-121	3.62	29	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.30		"	8.00		104	56-134			

Laboratory Control Sample Dup (3I26035-BSD2)

Prepared & Analyzed: 09/26/03

Gasoline Range Organics (C6-C10)	41.9	10	mg/m ³ Air	50.0		83.8	65-142	19.4	50	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.07		"	8.00		101	56-134			

Sequoia Analytical - Morgan Hill

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.



URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: INTRIM-50231
Project Manager: Scott Robinson

MMI0630
Reported:
10/02/03 09:10

Notes and Definitions

- O-09 The result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.
- 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



Chain of Custody Record

Project Name Station 2035 - 1001 San Pablo Ave, Albany, CA
 Business Unit Atlantic Richfield Company/Northern CA Portfolio
 BP Laboratory Contract Number: 4 6 1 0 0 0

Date: 092303

Requested Due Date:
 (mm/dd/yy - 2 weeks from sampling date)

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: Station 2035	Consultant: URS Oakland
Lab Name: Sequoia Analytical	BP/GEM Facility Address: 1001 San Pablo Ave, Albany, CA	Address: 500 12th Street, #200
Lab Address: 885 Jarvis Drive Morgan Hill, CA 95037	Site ID No. Station 2035	Oakland, CA 94607
	California Global ID #: T0600100081	e-mail EDD: Scott.Robinson@URSCorp.com
	BP/GEM PM Contact: Paul Supple	Consultant Project No.: J5-00002035.01
Lab PM: Latonya Pelt	Address: P.O. Box 6549, Moraga, CA 94570	Consultant Tele/Fax: 510-874-3280/510-874-3268
Tele/Fax: 408-782-8154/408-782-6308	Tele/Fax: 925-299-8891/925-299-8872	Consultant PM: Scott Robinson
Report Type & QC Level: Normal		Invoice to: Atlantic Richfield Company
BP/GEM Account No.:		BP/GEM Work Release No:

Item No.	Field Point ID	Sample ID	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis				Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	GB/TECOM 8021	BTX/TPH	EPA 8240	BTX/MIBZ		TPH/8015M
1	EPP	EPP	1329				X	MMI0630	1	X									
2	EPP INF	INF	1335				X	02	1	X									
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>M GOWNS</u>	Relinquished By: <u>Michael Jones URS</u>	Date: <u>09/23/03</u>	Time: <u>1550</u>	Accepted By: <u>Latonya Pelt</u>	Date: <u>9/23/03</u>	Time: <u>1550</u>
Sampler's Company: URS Oakland						
Shipment Date: <u>092303</u>						
Shipment Method: Hand Deliver						
Shipment Tracking No.:						

Special Instructions: GB/TEX/M stands for TPH-p/BTEX/M/IBZ by EPA Method 8021

Custody Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt N/A ^OFIC Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
 REC. BY (PRINT): PL
 WORKORDER: MM10630

DATE REC'D AT LAB: 9/23/03
 TIME REC'D AT LAB: 1550
 DATE LOGGED IN: 9/23/03

Drinking water for
 regulatory purposes: YES/NO NO
 Wastewater for
 regulatory purposes: YES/NO 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		511	(1) Airbag	-	A	9/23/03	
2. Chain-of-Custody Present / Absent*	02		114	L	L	L	L	
3. Traffic Reports or Packing List: Present / Absent*								
4. Airbill: Airbill / Sticker Present / Absent								
5. Airbill #:								
6. Sample Labels: Present / Absent								
7. Sample IDs: Traced / Not Listed on Chain-of-Custody								
8. Sample Condition: Intact / Broken* / Leaking*								
9. Does information on custody reports, traffic reports and sample labels agree? Yes / No*								
10. Sample received within hold time: Yes / No*								
11. Proper Preservatives used: Yes / No*								
12. Temp Rec. at Lab: Is temp $\pm 1-2^{\circ}\text{C}$? Yes / No** <small>(Acceptance range for samples requiring thermal pres.)</small>								
**Exception (if any): Metals / DFP (Direct from Field) or Problem COC								

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



13 November, 2003

Scott Robinson
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland, CA 94607

RE: ARCO #2035, Albany, CA
Work Order: MMJ0862

Enclosed are the results of analyses for samples received by the laboratory on 10/24/03 18:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley For Theresa Allen
Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: INTRIM-50231
Project Manager: Scott Robinson

MMJ0862
Reported:
11/13/03 09:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INFL	MMJ0862-01	Air	10/24/03 09:37	10/24/03 18:50
EFFL	MMJ0862-02	Air	10/24/03 09:22	10/24/03 18:50



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

URS Corporation [Arco] 500 12th Street, Suite 200 Oakland CA, 94607	Project: ARCO #2035, Albany, CA Project Number: INTRIM-50231 Project Manager: Scott Robinson	MMJ0862 Reported: 11/13/03 09:06
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Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
INFL (MMJ0862-01) Air Sampled: 10/24/03 09:37 Received: 10/24/03 18:50										
Gasoline Range Organics	13	2.4		ppmv	1	3J27002	10/27/03	10/27/03	EPA 8015B/8021B	
Benzene	0.23	0.031		"	"	"	"	"	"	
Toluene	0.045	0.027		"	"	"	"	"	"	
Ethylbenzene	ND	0.023		"	"	"	"	"	"	
Xylenes (total)	0.071	0.047		"	"	"	"	"	"	
Methyl tert-butyl ether	0.27	0.14		"	"	"	"	"	"	O-09
Surrogate: a,a,a-Trifluorotoluene		108 %		56-134		"	"	"	"	
EFFL (MMJ0862-02) Air Sampled: 10/24/03 09:22 Received: 10/24/03 18:50										
Gasoline Range Organics	ND	2.4		ppmv	1	3J27002	10/27/03	10/27/03	EPA 8015B/8021B	
Benzene	ND	0.031		"	"	"	"	"	"	
Toluene	ND	0.027		"	"	"	"	"	"	
Ethylbenzene	ND	0.023		"	"	"	"	"	"	
Xylenes (total)	0.048	0.047		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.14		"	"	"	"	"	"	O-09
Surrogate: a,a,a-Trifluorotoluene		95.5 %		56-134		"	"	"	"	

URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: ARCO #2035, Albany, CA
 Project Number: INTRIM-50231
 Project Manager: Scott Robinson

 MMJ0862
 Reported:
 11/13/03 09:06

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J27002 - EPA 5030B [P/T]
Blank (3J27002-BLK1)

Prepared & Analyzed: 10/27/03

Gasoline Range Organics	ND	2.4	ppmv							
Benzene	ND	0.031	"							
Toluene	ND	0.027	"							
Ethylbenzene	ND	0.023	"							
Xylenes (total)	ND	0.047	"							
Methyl tert-butyl ether	ND	0.14	"							O-09

<i>Surrogate: a,a,a-Trifluorotoluene</i>	1.29		"	1.34		96.3	56-134			
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Laboratory Control Sample (3J27002-BS1)

Prepared & Analyzed: 10/27/03

Benzene	0.686	0.031	ppmv	0.627		109	62-125			
Toluene	0.584	0.027	"	0.532		110	68-121			
Ethylbenzene	0.470	0.023	"	0.462		102	75-125			
Xylenes (total)	1.43	0.047	"	1.38		104	76-121			

<i>Surrogate: a,a,a-Trifluorotoluene</i>	1.29		"	1.34		96.3	56-134			
--	------	--	---	------	--	------	--------	--	--	--

Laboratory Control Sample (3J27002-BS2)

Prepared & Analyzed: 10/27/03

Gasoline Range Organics	12.9	2.4	ppmv	14.2		90.8	65-142			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	1.46		"	1.34		109	56-134			

Laboratory Control Sample Dup (3J27002-BSD1)

Prepared & Analyzed: 10/27/03

Benzene	0.674	0.031	ppmv	0.627		107	62-125	1.76	31	
Toluene	0.580	0.027	"	0.532		109	68-121	0.687	29	
Ethylbenzene	0.471	0.023	"	0.462		102	75-125	0.213	32	
Xylenes (total)	1.44	0.047	"	1.38		104	76-121	0.697	29	

<i>Surrogate: a,a,a-Trifluorotoluene</i>	1.31		"	1.34		97.8	56-134			
--	------	--	---	------	--	------	--------	--	--	--

Laboratory Control Sample Dup (3J27002-BSD2)

Prepared & Analyzed: 10/27/03

Gasoline Range Organics	13.6	2.4	ppmv	14.2		95.8	65-142	5.28	50	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	1.44		"	1.34		107	56-134			



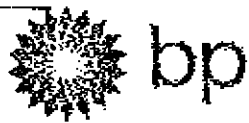
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #2035, Albany, CA
Project Number: INTRIM-50231
Project Manager: Scott Robinson

MMJ0862
Reported:
11/13/03 09:06

Notes and Definitions

- O-09 The result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.
- 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



Chain of Custody Record

Project Name ARCO #2035 air sampling (Environmental/Remediation)
 Business Unit Retail
 BP Laboratory Contract Number: Atlantic Richfield Company
 Requested Due Date:
14 days from sampling date

Date: 10/24/03

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: <u>Station 2035</u>	Consultant: <u>URS Oakland</u>
Lab Name: <u>Sequoia Analytical</u>	BP/GEM Facility Address: <u>1001 San Pablo Ave, Albany, CA</u>	Address: <u>500 12th Street, Suite 200</u>
Lab Address: <u>885 Jarvis Drive</u> <u>Morgan Hill, CA 95037</u>	Site ID No. <u>Station 2035</u>	<u>Oakland, CA 94607</u>
	California Global ID #: <u>T0600100081</u>	e-mail BDI: <u>No BDI</u>
	BP/GEM PM Contact: <u>Paul Supple</u>	Consultant Project No.: <u>38486319.0L041</u>
Lab PM: <u>Theresa Allen</u>	Address: <u>P.O. Box 6549, Morgan, CA 94570</u>	Consultant Tele/Fax: <u>510-874-3280/510-874-3268</u>
Tele/Fax: <u>408-776-9600/408-762-6305</u>	Tele/Fax: <u>925-299-8891/925-299-8872</u>	Consultant PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>Level 1</u>		Invoice to: <u>Atlantic Richfield Company</u>
BP/GEM Account No.:		BP/GEM Work Release No.:

Item No.	Field Point ID	Sample ID	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments		
				Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-g (8015)	BTX-g (8021)	MTBE-g (8021)						
1	INFL	INFL	0937				X	<u>MMTD862</u> <u>V07</u>	1					X	X	X						Report in ppmv
2	EFPL	EFPL	0922				X	<u>02</u>	1					X	X	X						Report in ppmv
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Sampler's Name: <u>Joe Gonzales</u>	Relinquished By / Affiliation: <u>Joe Gonzales / URS</u>	Date: <u>10/23</u>	Time: <u>10:30</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>10/24</u>	Time: <u>18:50</u>
Sampler's Company: <u>URS Oakland</u>						
Shipment Date:						
Shipment Method: <u>Hand Deliver</u>						
Shipment Tracking No.:						

Special Instructions: G/BTEX/M stands for TPH-g/BTEX/MTBE by EPA Method 8021

Custody Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
 REC. BY (PRINT) TL
 WORKORDER: MMJ0862

DATE REC'D AT LAB: 10/24/03
 TIME REC'D AT LAB: 1850
 DATE LOGGED IN: 10/24/03

Drinking water for
 regulatory purposes: YES / NO
 Wastewater 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 / <input checked="" type="checkbox"/> Absent Intact / Broken*	01 02		inf eff	2) 1cdarkby - L	L	A L	10/24/03 L	
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*								
3. Traffic Reports or Packing List:								
4. Airbill: Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent								
5. Airbill #:								
6. Sample Labels: <input checked="" type="checkbox"/> Present / Absent								
7. Sample IDs: <input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: <input checked="" type="checkbox"/> Intact / Broken* / Leaking*								
9. Does information on custody reports, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / No*								
10. Sample received within hold time: <input checked="" type="checkbox"/> Yes / No*								
11. Proper Preservatives used: <input checked="" type="checkbox"/> Yes / No*								
12. Temp Rec. at Lab: Is temp 4 +/- 2°C? <input checked="" type="checkbox"/> Yes / No** <small>(Acceptance range for samples requiring thermal pres.)</small>								

10/24/03 TL

**Exception (if any): Metals / DFF (Direct From Field)
 or Problem COC

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

URS-Oakland, CA

December 09, 2003

500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn.: Scott Robinson

Project#: 38486319.0L041

Project: BP/GEM Facility No.: Station 2035

Site: 1001 San Pablo Ave., Albany, CA

Attached is our report for your samples received on 12/09/2003 13:40

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

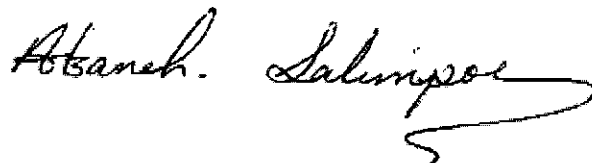
The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after 01/23/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: asalimpour@stl-inc.com

Sincerely,



Afsaneh Salimpour
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

URS-Oakland, CA

December 09, 2003

500 12th Street, Suite 200
Oakland, CA 94607-4014

Attn.: Scott Robinson

Project#: 38486319.0L041

Project: BP/GEM Facility No.: Station 2035

Site: 1001 San Pablo Ave., Albany, CA

Case Narrative

General and Sample Comments

We (STL San Francisco) received 2 Air samples , on Tuesday, December 09, 2003
1:40 PM.

Analysis Coments and Flags by QC Batch

Gas/BTEX/MTBE by 8260B	Air	QC Batch#: 200312101D64
------------------------	-----	-------------------------

INFL 2003-12-0284-001

Compound Flag(s)

dl Analyte reporting limit represents Method Detection Limit (MDL).

EFFL 2003-12-0284-002

Compound Flag(s)

dl Analyte reporting limit represents Method Detection Limit (MDL).

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX/MTBE by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

Oakland, CA 94607-4014

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486319.0L041

BP/GEM Facility No.: Station 2035

Received: 12/09/2003 13:40

Site: 1001 San Pablo Ave., Albany, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INFL	12/09/2003 12:22	Air	1
EFFL	12/09/2003 12:19	Air	2

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

12/22/2003 12:44

Gas/BTEX/MTBE by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

Oakland, CA 94607-4014

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486319.0L041

BP/GEM Facility No.: Station 2035

Received: 12/09/2003 13:40

Site: 1001 San Pablo Ave., Albany, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: INFL	Lab ID: 2003-12-0284 - 1
Sampled: 12/09/2003 12:22	Extracted: 12/10/2003 13:58
Matrix: Air	QC Batch#: 2003/12/10-1D.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	9.8	ppmv	1.00	12/10/2003 13:58	dl
Benzene	ND	0.31	ppmv	1.00	12/10/2003 13:58	
Toluene	ND	0.26	ppmv	1.00	12/10/2003 13:58	
Ethylbenzene	ND	0.23	ppmv	1.00	12/10/2003 13:58	
Total xylenes	ND	0.23	ppmv	1.00	12/10/2003 13:58	
Methyl tert-butyl ether (MTBE)	ND	0.14	ppmv	1.00	12/10/2003 13:58	
Surrogate(s)						
1,2-Dichloroethane-d4	93.3	76-130	%	1.00	12/10/2003 13:58	
Toluene-d8	92.4	78-115	%	1.00	12/10/2003 13:58	

Gas/BTEX/MTBE by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

500 12th Street, Suite 200
Oakland, CA 94607-4014
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486319.0L041
BP/GEM Facility No.: Station 2035

Received: 12/09/2003 13:40

Site: 1001 San Pablo Ave., Albany, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFFL	Lab ID:	2003-12-0284 - 2
Sampled:	12/09/2003 12:19	Extracted:	12/10/2003 13:36
Matrix:	Air	QC Batch#:	2003/12/10-1D.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	9.8	ppmv	1.00	12/10/2003 13:36	dl
Benzene	ND	0.31	ppmv	1.00	12/10/2003 13:36	
Toluene	ND	0.26	ppmv	1.00	12/10/2003 13:36	
Ethylbenzene	ND	0.23	ppmv	1.00	12/10/2003 13:36	
Total xylenes	ND	0.23	ppmv	1.00	12/10/2003 13:36	
Methyl tert-butyl ether (MTBE)	ND	0.14	ppmv	1.00	12/10/2003 13:36	
Surrogate(s)						
1,2-Dichloroethane-d4	94.4	76-130	%	1.00	12/10/2003 13:36	
Toluene-d8	94.1	78-115	%	1.00	12/10/2003 13:36	

Gas/BTEX/MTBE by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

Oakland, CA 94607-4014

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486319.0L041

BP/GEM Facility No.: Station 2035

Received: 12/09/2003 13:40

Site: 1001 San Pablo Ave., Albany, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/12/10-1D.64-051

Water

Test(s): 8260B

QC Batch # 2003/12/10-1D.64

Date Extracted: 12/10/2003 10:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/10/2003 10:51	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	12/10/2003 10:51	
Benzene	ND	0.5	ug/L	12/10/2003 10:51	
Toluene	ND	0.5	ug/L	12/10/2003 10:51	
Ethylbenzene	ND	0.5	ug/L	12/10/2003 10:51	
Total xylenes	ND	1.0	ug/L	12/10/2003 10:51	
Surrogates(s)					
1,2-Dichloroethane-d4	90.4	76-114	%	12/10/2003 10:51	
Toluene-d8	92.2	88-110	%	12/10/2003 10:51	

Gas/BTEX/MTBE by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

Oakland, CA 94607-4014

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486319.0L041

BP/GEM Facility No.: Station 2035

Received: 12/09/2003 13:40

Site: 1001 San Pablo Ave., Albany, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2003/12/10-1D.64

LCS 2003/12/10-1D.64-007

Extracted: 12/10/2003

Analyzed: 12/10/2003 10:07

LCSD 2003/12/10-1D.64-029

Extracted: 12/10/2003

Analyzed: 12/10/2003 10:29

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.0	23.2	25	88.0	92.8	5.3	65-165	20		
Benzene	23.2	23.5	25	92.8	94.0	1.3	69-129	20		
Toluene	23.9	24.4	25	95.6	97.6	2.1	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	464	465	500	92.8	93.0		76-114			
Toluene-d8	468	472	500	93.6	94.4		88-110			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

12/22/2003 12:44

Gas/BTEX/MTBE by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

500 12th Street, Suite 200

Oakland, CA 94607-4014

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486319.0L041

BP/GEM Facility No.: Station 2035

Received: 12/09/2003 13:40

Site: 1001 San Pablo Ave., Albany, CA

Legend and Notes

Result Flag

dl

Analyte reporting limit represents Method Detection Limit (MDL).

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 12 - 0284

Checklist completed by: (initials) DSH Date: 12 / 09 /03

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples

Yes _____ No _____ Not Present

Chain of custody present?

Yes No _____

Chain of custody signed when relinquished and received?

Yes No _____

Chain of custody agrees with sample labels?

Yes No _____

Samples in proper container/bottle?

Yes No _____

Sample containers intact?

Yes No _____

Sufficient sample volume for indicated test?

Yes No _____

All samples received within holding time?

Yes No _____

Container/Temp Blank temperature in compliance ($4^{\circ}\text{C} \pm 2$)?

Temp: 17.0°C Yes No _____

Water - VOA vials have zero headspace?

Ice Present? Yes _____ No

No VOA vials submitted Yes _____ No _____

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O)

Water - pH acceptable upon receipt? Yes No air samples

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc -Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____ / _____ /03

Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):



Chain of Custody Record

80975

Project Name ARCO #2035 air sampling (Environmental/Remediation)
Business Unit Atlantic Richfield Company - Retail

BP Laboratory Contract Number:

Date: 120903

Requested Due Date: 2003-12-0284
 14 days from sampling date

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: Station 2035	Consultant: URS Oakland
Lab Name: STL-SF (Pleasanton)	BP/GEM Facility Address: 1001 San Pablo Ave, Albany, CA	Address: 500 12th Street, Suite 200
Lab Address: 1220 Quarry Lane	Site ID No. Station 2035	Oakland, CA 94607
Pleasanton, CA 94566	California Global ID #: NA	e-mail EDD: No EDF
	BP/GEM PM Contact: Paul Supple	Consultant Project No.: 38486319.0L041
Lab PM: Afsaneh Salimpour	Address: P.O. Box 6549, Moraga, CA 94570	Consultant Tele/Fax: 510-874-3280/510-874-3268
Tele/Fax: 925.484.1919/925.484.1096	Tele/Fax: 925-299-8891/925-299-8872	Consultant PM: Scott Robinson
Report Type & QC Level: Level 1		Invoice to: BP/GEM
BP/GEM Account No.: Atlantic Richfield Company		BP/GEM Work Release No:

Item No.	Field Point ID	Sample ID	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments			
				Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-g (8260)	BTEX (8260)	MTBE (8260)							
1	INFL	INFL	1222				X		1					X	X	X							17.0C
2	EFFL	EFFL	1219				X		1					X	X	X							Report in ppmv & mg/m3
3																							Report in ppmv & mg/m3
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Sampler's Name: M Grooms	Relinquished By / Affiliation: Michael Brown	Date: 120903	Time: 1340	Accepted By / Affiliation: [Signature]	Date: 12-9-03	Time: 13:40
Shipment Date: 120903						
Shipment Method: Courier						
Shipment Tracking No.:						

Special Instructions: TPH-g, BTEX and MTBE by EPA Method 8260B

Custody Seals In Place Yes ___ No x Temperature Blank Yes ___ No x Cooler Temperature on Receipt ___ °F/C Trip Blank Yes ___ No x

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 ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	MTBE 8021B* ($\mu\text{g/L}$)	MTBE 8240/8260 ($\mu\text{g/L}$)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
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 ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	MTBE 8021B* ($\mu\text{g/L}$)	MTBE 8240/8260 ($\mu\text{g/L}$)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)	
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 Xylencs (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 ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	MTBE 8021B* ($\mu\text{g/L}$)	MTBE 8240/8260 ($\mu\text{g/L}$)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)	
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 (fcct)	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 ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	MTBE 8021B* ($\mu\text{g/L}$)	MTBE 8240/8260 ($\mu\text{g/L}$)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
S-5	--	--	--	--	05-30-97	310,000	3,000	11,000	4,000	34,000	<2,500	--	--	--
S-5	--	10.00	--	--	10-02-97	70,000	1,800	7,800	1,400	20,000	<120	--	0.25	NP

TOC: top of casing

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

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

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

MTBE: Methyl tert-butyl ether

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

mg/L: milligrams per liter

--: not analyzed or not applicable

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

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

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

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

DUP: duplicate sample

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

ARCO Service Station 2035

1001 San Pablo Avenue, Albany, California

Date: 12-22-03

Well Designation	Water Sample Field Date	TPHC	Benzene	Toluene	Ethylbenzene	Total Xylenes	MIBE	MIBE	Oil and Grease	Oil and Grease	Oil and Grease	TRPH	TPHD
		LUFT Method	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8240	SM 5520B&F	SM 5520C	SM 5520F	EPA 418.1	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											

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

ARCO Service Station 2035

1001 San Pablo Avenue, Albany, California

Date: 12-22-03

Well Designation	Water Sample Field Date	TPHC	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	MTBE	Oil and Grease	Oil and Grease	Oil and Grease	TRPH	TPHD
		LUFT Method	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8240	SM 5520B&F	SM 5520C	SM 5520F	EPA 418.1	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	01-31-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-5	04-25-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-5	07-28-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-5	11-14-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-5	03-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-5	05-23-91	Not sampled: not scheduled for chemical analysis											
MW-5	08-21-91	Not sampled: not scheduled for chemical analysis											
MW-5	11-08-91	Not sampled: not scheduled for chemical analysis											
MW-5	02-26-92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	--	--	--
MW-5	04-21-92	Not sampled: not scheduled for chemical analysis											
MW-6	01-31-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-6	04-25-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-6	07-28-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-6	11-14-90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-6	03-23-91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-6	05-23-91	Not sampled: not scheduled for chemical analysis											
MW-6	08-21-91	Not sampled: not scheduled for chemical analysis											
MW-6	11-08-91	Not sampled: not scheduled for chemical analysis											
MW-6	02-26-92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	--	--	--
MW-6	04-21-92	Not sampled: not scheduled for chemical analysis											
RW-1	01-31-90	Not sampled: well connected to the remediation system											
RW-1	04-25-90	Not sampled: well contained floating product											
RW-1	07-28-90	Not sampled: well contained floating product											
RW-1	11-14-90	Not sampled: well contained floating product											
RW-1	03-23-91	11000	560	660	150	1700	--	--	--	--	--	--	--
RW-1	05-23-91	Not sampled: well contained floating product											
RW-1	08-21-91	Not sampled: well contained floating product											
RW-1	11-08-91	1600	79	46	13	240	--	--	--	--	--	--	--
RW-1	02-26-92	210	44	7.5	2.5	24	29	--	--	--	--	--	--
RW-1	04-21-92	36000	7400	3700	580	3400	<300	--	--	--	--	--	--

TPHC: total petroleum hydrocarbons as gasoline, California DHS LUFT Method
µg/L: micrograms per liter

EPA: United States Environmental Protection Agency

MTBE: Methyl-tert-butyl ether

SM: standard method

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 1990 Groundwater Monitoring Program Results and Remediation Performance Evaluation Report, ARCO Service Station 2035, Albany, California*, (LML/UV, March 23, 1996).

ATTACHMENT D

JOINT MONITORING DATA

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December 8, 2003

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Fourth Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
999 San Pablo Avenue
Albany, CA

Monitoring performed on November 13, 2003

Groundwater Monitoring Report **031113-MD-2**

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

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

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

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

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/jt

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

cc: Ana Friel
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P.O. Box 259
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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
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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-2	05/13/1991	23,000	3,900	230	1,100	3,200	NA	NA	40.73	8.50	32.23	NA	NA
S-2	08/23/1991	23,000	4,400	260	1,900	2,400	NA	NA	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

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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
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

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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-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

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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
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

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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
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-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

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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
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

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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
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

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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
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

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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
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

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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
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-7	05/13/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	40.10	10.56	29.54	NA	NA

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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
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

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-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
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

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)
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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

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, California.

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

12/22/03

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:	MMK0613
Global ID:	T0600100081
Lab Report Number:	MMK0613120220031344

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MMK06131202200	MW-1 31344	MMK061301	W	CS	8260TPH	SW5030B	11/13/03	11/25/03	11/25/03	3K25005	1
MMK06131202200	MW-2 31344	MMK061302	W	CS	8260TPH	SW5030B	11/13/03	11/25/03	11/26/03	3K25005	1
MMK06131202200	MW-3 31344	MMK061303	W	CS	8260TPH	SW5030B	11/13/03	11/25/03	11/26/03	3K25005	1
MMK06131202200	MW-4 31344	MMK061304	W	CS	8260TPH	SW5030B	11/13/03	11/25/03	11/26/03	3K25005	1
MMK06131202200	MW-5 31344	MMK061305	W	CS	8260TPH	SW5030B	11/13/03	11/25/03	11/26/03	3K25005	1
MMK06131202200	MW-6 31344	MMK061306	W	CS	8260TPH	SW5030B	11/13/03	11/25/03	11/26/03	3K25005	1
MMK06131202200	RW-1 31344	MMK061307	W	CS	8260TPH	SW5030B	11/13/03	11/26/03	11/26/03	3K26005	1
MMK06131202200	S-5 31344	MMK061308	W	CS	8260TPH	SW5030B	11/13/03	11/25/03	11/26/03	3K25005	1
		MMK079503	W	NC	8260TPH	SW5030B	//	11/26/03	11/27/03	3K26005	1
		3K25005BSD1	WQ	BD1	8260TPH	SW5030B	//	11/25/03	11/25/03	3K25005	1
		3K25005BSD2	WQ	BD2	8260TPH	SW5030B	//	11/25/03	11/25/03	3K25005	1
		3K25005BS1	WQ	BS1	8260TPH	SW5030B	//	11/25/03	11/25/03	3K25005	1
		3K25005BS2	WQ	BS2	8260TPH	SW5030B	//	11/25/03	11/25/03	3K25005	1
		3K25005BLK1	WQ	LB1	8260TPH	SW5030B	//	11/25/03	11/25/03	3K25005	1
		3K26005BSD1	WQ	BD1	8260TPH	SW5030B	//	11/26/03	11/27/03	3K26005	1
		3K26005BSD2	WQ	BD2	8260TPH	SW5030B	//	11/26/03	11/27/03	3K26005	1
		3K26005BS1	WQ	BS1	8260TPH	SW5030B	//	11/26/03	11/26/03	3K26005	1
		3K26005BS2	WQ	BS2	8260TPH	SW5030B	//	11/26/03	11/26/03	3K26005	1
		3K26005BLK1	WQ	LB1	8260TPH	SW5030B	//	11/26/03	11/26/03	3K26005	1
		3K26005MS1	W	MS1	8260TPH	SW5030B	//	11/26/03	11/27/03	3K26005	1
		3K26005MSD1	W	SD1	8260TPH	SW5030B	//	11/26/03	11/27/03	3K26005	1

EDFSAMP: Error Summary Log

12/22/03

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

EDFTEST: Error Summary Log

12/22/03

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

EDFRES: Error Summary Log

12/22/03

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

EDFQC: Error Summary Log

12/22/03

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

EDFCL: Error Summary Log

12/22/03

Error type	Clevdate	Anmcode	Exmcode	Parlabel	Ccode
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 successfully uploaded!

Confirmation Number: 5041579365

Date/Time of Submittal: 12/22/2003 3:37:21 PM

Facility Global ID: T0600100081

Facility Name: ARCO # 02035

Submittal Title: Second Semi-Annual 2003 GW Monitoring Report for ARCO #2035

Submittal Type: GW Monitoring Report

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).

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UPLOADING A GEO_WELL FILE

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

**Submittal Title: Second Semi-Annual 2003 Geowell Submittal for ARCO
 #2035**

Submittal Date/Time: 12/22/2003 3:39:18 PM

**Confirmation
Number: 1869633316**

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ATTACHMENT F

**GEO-Z, GEO-XY SURVEY DATA/
SURVEY DATA SUBMITTAL CONFIRMATIONS**

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Submittal Report For ARCO # 02035:

page 1 of 1

<u>Title</u>	<u>Type</u>	<u>Submitted</u>	<u>Submittal Status</u>	<u>Confirmation #</u>	
Fourth Quarter Groundwater Monitoring Report for Site #2035	GWM_R	1/9/2003	RECEIVED: 12/16/2003 4:33:47 PM	2476530313	
Fourth Quarter Groundwater Monitoring Report for Site #2035	GEO_WELL	1/9/2003	AWAITING APPROVAL	1914814591	Delete Submittal
Site 2035 1001 San Pablo Ave - Quarterly Monitoring	GEO_WELL	7/1/2003	DELETED: 7/1/2003 5:03:31 PM	3374073624	
First Quarter 2003 Groundwater Monitoring Report.	GWM_R	7/28/2003	DELETED: 7/28/2003 12:48:03 PM	5858360290	
Second Quarter 2003 Groundwater Monitoring Report. Site 2035	GEO_WELL	7/28/2003	AWAITING APPROVAL	4035450577	Delete Submittal
GEO_MAP	GEO_MAP	12/4/2003	AWAITING APPROVAL	2025227189	Delete Submittal
Geo XY Site #2035	GEO_XY	12/15/2003	AWAITING APPROVAL	1514912247	Delete Submittal
Geo Z Site #2035	GEO_Z	12/15/2003	AWAITING APPROVAL	5722950577	Delete Submittal
Second Semi-Annual 2003 GW Monitoring Report for ARCO #2035	GWM_R	12/22/2003	AWAITING APPROVAL	5041579365	Delete Submittal
Second Semi-Annual 2003 Geowell Submittal for ARCO #2035	GEO_WELL	12/22/2003	AWAITING APPROVAL	1869633316	Delete Submittal

T0600100081	MW-2	MW	10/15/2003	37.8865370	-122.2975558	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	MW-4	MW	10/15/2003	37.8863294	-122.2974873	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	VW-4	MW	10/15/2003	37.8865747	-122.2973411	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	VW-7	MW	10/15/2003	37.8865647	-122.2974042	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	VW-5	MW	10/15/2003	37.8865427	-122.2974671	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	VW-9	MW	10/15/2003	37.8864909	-122.2974787	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	AS-2	MW	10/15/2003	37.8865736	-122.2975000	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	RW-1	MW	10/15/2003	37.8866056	-122.2974964	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	VW-2	MW	10/15/2003	37.8866062	-122.2974700	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	AS-1	MW	10/15/2003	37.8866028	-122.2974140	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	VW-1	MW	10/15/2003	37.8866356	-122.2973931	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	VW-3	MW	10/15/2003	37.8866280	-122.2973406	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	MW-B	MW	10/15/2003	37.8866432	-122.2973077	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	MW-1	MW	10/15/2003	37.8866335	-122.2972693	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	VW-8	MW	10/15/2003	37.8865732	-122.2972438	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	MW-A	MW	10/15/2003	37.8865702	-122.2972849	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	S-5	MW	10/15/2003	37.8866840	-122.2974842	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	MW-6	MW	10/15/2003	37.8864115	-122.2978529	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	VW-6	MW	10/15/2003	37.8865162	-122.2972951	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	MW-3	MW	10/15/2003	37.8864594	-122.2972646	CGPS
NAD83 0.02	URS	T48	0.0000000			
T0600100081	MW-5	MW	10/15/2003	37.8863697	-122.2971832	CGPS
NAD83 0.02	URS	T48	0.0000000			

T0600100081 4" PVC	MW-2	10/15/2003	42.55	CGPS	88	0.02	URS	-0.31
T0600100081 4" PVC	MW-4	10/15/2003	42.48	CGPS	88	0.02	URS	-0.64
T0600100081 4" PVC	VW-4	10/15/2003	43.07	CGPS	88	0.02	URS	-0.61
T0600100081 4" PVC	VW-7	10/15/2003	43.09	CGPS	88	0.02	URS	-0.51
T0600100081 4" PVC	VW-5	10/15/2003	43.01	CGPS	88	0.02	URS	-0.52
T0600100081 4" PVC	VW-9	10/15/2003	42.79	CGPS	88	0.02	URS	-0.69
T0600100081 2" PVC	AS-2	10/15/2003	42.72	CGPS	88	0.02	URS	-0.44
T0600100081 10" PVC	RW-1	10/15/2003	42.35	CGPS	88	0.02	URS	-0.72
T0600100081 4" PVC	VW-2	10/15/2003	42.57	CGPS	88	0.02	URS	-0.60
T0600100081 2" PVC	AS-1	10/15/2003	43.12	CGPS	88	0.02	URS	-0.31
T0600100081 4" PVC	VW-1	10/15/2003	42.66	CGPS	88	0.02	URS	-0.67
T0600100081 4" PVC	VW-3	10/15/2003	43.11	CGPS	88	0.02	URS	-0.51
T0600100081 4" PVC	MW-B	10/15/2003	42.72	CGPS	88	0.02	URS	-1.07
T0600100081 4" PVC	MW-1	10/15/2003	43.55	CGPS	88	0.02	URS	-0.40
T0600100081 4" PVC	VW-8	10/15/2003	43.72	CGPS	88	0.02	URS	-0.52
T0600100081 4" PVC	MW-A	10/15/2003	43.33	CGPS	88	0.02	URS	-0.73
T0600100081 3" PVC	S-5	10/15/2003	41.83	CGPS	88	0.02	URS	-0.47
T0600100081 2" PVC	MW-6	10/15/2003	42.26	CGPS	88	0.02	URS	-0.52
T0600100081 4" PVC	VW-6	10/15/2003	43.69	CGPS	88	0.02	URS	-0.48
T0600100081 4" PVC	MW-3	10/15/2003	43.62	CGPS	88	0.02	URS	-0.57
T0600100081 4" PVC	MW-5	10/15/2003	44.03	CGPS	88	0.02	URS	-0.63

ATTACHMENT G

O&M FIELD DATA SHEETS

ARCO # 2035

1001 San Pablo Ave., Albany, CA

O&M FIELD DATA FORM

REMARKS: *Worked on ThermTech to get it in operating condition. Magnahelic gauges were not reading properly and did not take readings. ThermTech was operating w/o well field manifold on line. See Field Report for details pertaining to repairs made.*

SAMPLED NOT SAMPLED
 Scheduled Site Visit Unscheduled Site Visit

24 Hour		SYSTEM PARAMETERS			
Arrival Time	0650	Temperatures (deg F)		Pressures	
System Status	Down	Control Setpoint	650	Total Press (in. WC)	
Shutdown Time		Control Temp.	648	Total Flow (ft/min)	N/A
Restart Time		Catalyst Setpoint	1250	Dilution Air (ft/min)	
Depart Time	1420	Catalyst Temp	635	Vacuum (in. WC)	A
		Well Field Influent	N/A	Well Manifold(ft/min)	

UTILITIES		AIR MONITORING			
Electric Meter (kwh)		PID (ppm)	INFLUENT	EFFLUENT	NOTES
Nat Gas (cu/ft)		-with carbon filter			
Total Hours		without carbon filter			
		DIFFERENCE			

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 ₂ O)	Velocity (ft/min)	PID (ppm)	FID (ppm)

Field Notes: *System operating w/o well field influent going to unit.*

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: 06/24/03

ARCO # 2035

1001 San Pablo Ave., Albany, CA

O&M FIELD DATA FORM

REMARKS: *arrived on site. System down. Had control fault bits on. Not sure what the cause was.*

SAMPLED NOT SAMPLED
 Scheduled Site Visit Unscheduled Site Visit

		SYSTEM PARAMETERS			
		Temperatures (deg F)		Pressures	
Arrival Time	12:24	Control Setpoint	650	Total Press (in. WC)	1 4"
System Status	OFF	Control Temp.	648	Total Flow (ft/min)	1350 4"
Shutdown Time	-	Catalyst Setpoint	1250	Dilution Air (ft/min)	1500 3"
Restart Time	12:35	Catalyst Temp	663	Vacuum (in. WC)	25 4"
Depart Time		Well Field Influent	78	Well Manifold(ft/min)	

UTILITIES		AIR MONITORING			
Electric Meter (kwh)	00277	PID (ppm)	INFLUENT	EFFLUENT	NOTES
Nat Gas (cu/ft)	25762.5	with carbon filter	75	3	
Total Hours	23888.30	without carbon filter			
		DIFFERENCE			

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 ₂ O)	Velocity (ft/min)	PID (ppm)	FID (ppm)
VW-1	4	5'-17							
VW-2	4	5'-17							
VW-3	4	4.5'-9.5							
VW-4	4	5'-17							
VW-5	4	4.5'-14.5							
VW-6	4	5'-12.5							
VW-7	4	5'-15							
VW-8	4	5'-15							
VW-9	4	4'-26							
RW-1	6	4'-26							
AS-1(vent)	2	5'-15							
AS-2(vent)	2	5'-15							

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 *M. Gomes*

Date: *07/01/03*

ARCO # 2035

O&M FIELD DATA FORM

REMARKS: *PID is not reading samples correctly. Need to call field rep about it.*

SAMPLED NOT SAMPLED
 Scheduled Site Visit / X] Unscheduled Site Visit]

24 Hour		SYSTEM PARAMETERS			
Arrival Time	<i>1350</i>	Temperatures (deg F)		Pressures	
System Status	<i>ON</i>	Control Setpoint	<i>650</i>	Total Press (in. WC)	
Shutdown Time		Control Temp.	<i>648</i>	Total flow (ft/min)	
Restart Time		Catalyst Setpoint	<i>1250</i>	Dilution Air (in. WC)	
Depart Time		Catalyst Temp	<i>656</i>	Vacuum (in. WC)	

UTILITIES		AIR MONITORING			
Electric Meter (kwh)	<i>00807</i>	PID (ppm)			
Nat Gas (cu/ft)	<i>7715210</i>	Effluent			
Total Hours	<i>24055.72</i>	Influent	<i>195</i>	<i>incorrect readings</i>	

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 ₂ O)	Velocity (ft/min)	PID (ppm)	FID (ppm)

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: *07 08 03*

ARCO # 2035

1001 San Pablo Ave., Albany, CA

O&M FIELD DATA FORM

REMARKS:

SAMPLED [] NOT SAMPLED [X]
Scheduled Site Visit [X] Unscheduled Site Visit []

SYSTEM PARAMETERS table with columns for Arrival Time, System Status, Shutdown Time, Restart Time, Depart Time, Temperatures (deg F), Pressures, Control Setpoint, Control Temp., Catalyst Setpoint, Catalyst Temp., Well Field Influent, Well Manifold(ft/min)

UTILITIES and AIR MONITORING tables. Utilities includes Electric Meter (kwh), Nat Gas (cu/ft), Total Hours. Air Monitoring includes PID (ppm), INFLUENT, EFFLUENT, NOTES, DIFFERENCE.

Lab samples taken for analysis to: Sequoia Labs

WELL FIELD table with columns: SVE WELL ID, Well Diameter, Screen Interval, DTW (feet), TD (feet), Valve Position (% open), Vacuum (in. of H2O), Velocity (ft/min), PID (ppm), FID (ppm)

Field Notes:

Special Instructions: DESTRUCTION CALCULATION; (EFF) DIVIDED BY (INF) EQUALS (X) (1-X) TIMES 100 EQUALS (TOTAL DESTRUCTION)
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: 072203

ARCO # 2035

O&M FIELD DATA FORM

REMARKS:

SAMPLED [] NOT SAMPLED []
 Scheduled Site Visit [] Unscheduled Site Visit []

24 Hour		SYSTEM PARAMETERS			
Arrival Time	0618	Temperatures (deg F)		Pressures	
System Status	ON	Control Setpoint	650	Total Press (in. WC)	1
Shutdown Time	0650	Control Temp.	651	Total flow (ft/min)	1200 / 0.09 in. WC
Restart Time	0705	Catalyst Setpoint	1250	Dilution Air (in. WC)	0.06 / 1000 ft/min
Depart Time	0900	Catalyst Temp	660	Vacuum (in. WC)	25
		Well Field Temp	72	Well Field (ft/min)	N/A

UTILITIES		AIR MONITORING			
Electric Meter (kwh)	02891	FID (ppm)	w/o Carbon	w/ Carbon	Difference
Nat Gas (cu/ft)	82681.0	Effluent	6	3	
Total Hours	29720.80	Influent	10	8	

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 ₂ O)	Velocity (ft/min)	FID (ppm)
AS 1E2					100			
AS 1E6								
1					100			
2					100			
3					100			
4					100			
5					100			
7					100			
8					100			
9					100			
10					100			

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: 080503

Field Report

Field Office: 500 12 th St. #200	Date: 080503	
Oakland, CA 94607	Job No.:	Task No.:
	Project: 2035	
Prepared By: Mike Gomes	Location:	
To:	Weather:	Temp.:
	Client: BP	
	Contractor: URS	
Attn:		

Page ___ of ___

0618- Arrived on site. System is operating. Made adjustments to dilution air valve and system shut down from process blower failure alarm. Blower was still running so I checked the Dwyer pressure sensor and it was faulty. Replaced with repaired spare and restarted system. Tested OK, system back on line.

Opened up vult box outside enclosure. It is the well field manifold and all valves are in the open position.

Sampled for month. On site map that had MW 4 and 5 and SV-9 missing. Located and marked on map.

0900- Left site for next job. System is operating at this time.

ARCO # ²⁰³⁵ 2155

5755 Camden Ave., San Jose, CA

O&M FIELD DATA FORM

REMARKS:

SAMPLED NOT SAMPLED
 Scheduled Site Visit Unscheduled Site Visit

24 Hour		SYSTEM PARAMETERS				
Arrival Time	System Status	Temperatures (deg F)		Pressures		Pipe Dia.
0610	OFF	Control Setpoint	650	Total Press (in. WC)	1	
Shutdown Time		Control Temp.	698	Total flow (ft/min)	13.00	4" line
Restart Time	0612	Catalyst Setpoint	1250	Dilution Air (ft/min)	500	3" line
Depart Time	0650	Catalyst Temp	688	Vacuum (in. WC)	10	
		Well Field influent	68	Well manifold (ft/min)	N/A	3" line

UTILITIES		AIR MONITORING			
Electric Meter (kwh)	04592	FID (ppm)	INFLUENT	EFFLUENT	DIFFERENCE
Nat Gas (cu/ft)	8639	with carbon filter	85	22	
Total Hours	25231.80	without carbon filter	90	25	

Lab samples taken for analysis to: Sequola Labs

WELL FIELD								
WELL ID	Well Diameter	Screen Interval	DTW (feet)	TD (feet)	Valve Position (% open)	Vacuum (in. of H ₂ O)	Velocity (ft/min)	FID (ppm)
E-1								
E-2								
E-3								
E-4								
E-5								
E-6								
E-7								
E-8								
MW-1								
MW-2								
MW-3A								
MW-4								
MW-5								
MW-6								
MW-7								
MW-8								
MW-9								
MW-10								
MW-11								
MW-12								
SP-1								
SP-2								
SP-3								
SP-4								
SP-5								

Field Notes: Arrived on site and found system down. Did restart and had no problems.

Operator M Gomes Date 090903

ARCO # 2035

1001 San Pablo Ave., Albany, CA

O&M FIELD DATA FORM

REMARKS: *system down when arrived*

SAMPLED NOT SAMPLED
 Scheduled Site Visit Unscheduled Site Visit

24 Hour		SYSTEM PARAMETERS			
Arrival Time	0804	Temperatures (deg F)		Pressures	
System Status	off	Control Setpoint	650	Total Press (in. WC)	1
Shutdown Time		Control Temp.	651	Total Flow (ft/min)	gauge broken
Restart Time	0844	Catalyst Setpoint	1250	Dilution Air (ft/min)	5
Depart Time	0955	Catalyst Temp	672	Vacuum (in. WC)	10
		Well Field Influent	64	Well Manifold(ft/min)	
UTILITIES		AIR MONITORING			
Electric Meter (kwh)	07348	FID (ppm)	w/carbon	w/o carbon	DIFFERENCE
Nat Gas (cu/ft)	9379	INFLUENT		242	did not
Total Hours	26104.60	EFFLUENT		41.4	stabilize

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 ₂ O)	Velocity (ft/min)	FID (ppm)	

Field Notes: *- called Mike to ask how to restart system.
 - restarted system + take readings total flow gauge has moisture in it, needle has corroded & broken off.
 - sample. PID continued to rise even after tube was removed
 PID does not stabilize.*

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 Joe Gonzalez Date: 10/24/03

Moisture in PID

Are you ordering
a gauge?
Didn't the comment
on this?

Report

Field Office: <u>Ca</u>		Date: <u>11/19/03</u>	
Prepared By: <u>George Bradshaw</u>		No: <u>38486169</u>	Task No: <u>00335</u>
To: <u>Teresa Tamborello</u>		Project: <u>BP ARIO</u>	
Attn: <u>KIT VELDAMAN</u>		Location: <u>2035</u>	
Page: <u>1</u> of <u>1</u>		Weather: <u>Over Cast</u>	Temp.: <u>65</u>
		Client:	
		Contractor: <u>URS</u>	
<p>Recommend flow readings be taken with a portable manometer available from Dwyer.</p>			
<p>Arrived at site 1300 hrs. (AIR FLOWS DILUTION AIR: 103.6 cfm, Stack WELLS: 6.4 cfm, Combustion Air: 8.2 cfm, 118.2 cfm)</p> <p>System shutdown. Restarted system with help from Mike Garner.</p> <p>Startup Time: 1315 hours (Run Time = 26278.48 at 1337 hrs)</p> <p>Adjusted dilution air manual value to allow 1050 ft/min velocity air flow to burner. System stable.</p> <p>Readings:</p> <p>Run Time: 26278.51 at 1339 hrs. ^{6.0 cfm} Well Flow Total 140 ft/min (3" CA Fan 40 ft/min (2" 80) Combined w/ dilution Air 2400 ft/min 5" 80)</p> <p>Flame Intensity 10.8 volts 110</p> <p>Catalytic Temperature 648°F (Setpoint 650°F)</p> <p>High Temp Shutdown 654°F (Limit 1250°F) (STACK)</p> <p>Manifold Vacuum at inlet -33" H₂O</p> <p>Manifold Temp: 72°F</p> <p>Total Air Flow to Oxidizer: 1050 ft/min (-0.07" H₂O dP)</p> <p>Total Pressure: 0.6" H₂O (detective?)</p> <p>ΔP Across Filter: 5" H₂O</p> <p>Total Vacuum from well: -39" H₂O (compare to -33 at manifold)</p> <p>Replace: 0-100 cfm magnetic on 3" Sched 80 manifold, Rear Connected 0-100" H₂O vacuum gauge on vertical manifold, Replacement tubing for</p>			
Equipment Used: <u>dilution air magnetic</u>			
Contractor Hours:	Staff Hours:	Mileage: <u>30</u>	
Copies To:		Project Manager:	
		Reviewed By:	

KV 11/21/03

Field Report

Field Office: 500 12 th St. #200	Date: 12 09 03	
Oakland, CA 94607	Job No.:	Cost Code.:
	Project: 2035	
Prepared By: Mike Gomes	Location: Albany	
To:	Weather:	Temp.:
	Client: BP	
	Contractor: URS	
Attn:		

Page ___ of ___

1100- Arrived on site, system operating. Was changing ground light and small control power fuse blew. Replaced fuse restarted system OK.

Grabbed samples. Took FID readings.

Installed a magnohelic gauge were dilution air gauges. Works ok. ✓

1300- Left site for lab

REV'D 12/12 6AM

W 12/12/03

ATTACHMENT H

WELL REPAIR FIELD DATA SHEETS

REPAIR DATA SHEET

Client ARCO # 2035 Date Nov 14, 2003

Site Address 1001 SAN PABLO AVE MIDWAY

Job Number 03114-MK2 Technician PAUL KENTON

Repair Location MW-2

Deficiencies Corrected 2 Helicoils + MORE
2 Bolts

Materials Used 2 Bolts 2 Helicoils

Repair Location S-5

Deficiencies Corrected 3 Repair + ADDED
3 Bolts

Materials Used 3 Bolts

Repair Location MW-1

Deficiencies Corrected 2 Helicoils + ADDED
2 Bolts

Materials Used 2-Bolts, 2-Helicoils

Repair Location MW-4

Deficiencies Corrected 2 Helicoils + ADDED
2 Bolts

Materials Used 2 Bolts 2 Helicoils

Repair Location _____

Deficiencies Corrected _____

Materials Used _____

Repair Location _____

Deficiencies Corrected _____

Materials Used _____

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY_DATE	LATITUDE	LONGITUDE	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_SURVEY_ORG	GPS_EQUIP_TYPE	XY_SURVEY_DESC	SITE
T0600100081	MW-2	MW	10/15/2003	37.8865370	-122.2975558	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	MW-4	MW	10/15/2003	37.8863294	-122.2974873	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	VW-4	MW	10/15/2003	37.8865747	-122.2973411	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	VW-7	MW	10/15/2003	37.8865647	-122.2974042	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	VW-5	MW	10/15/2003	37.8865427	-122.2974871	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	VW-9	MW	10/15/2003	37.8864909	-122.2974787	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	AS-2	MW	10/15/2003	37.8865736	-122.2975000	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	RW-1	MW	10/15/2003	37.8866056	-122.2974964	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	VW-2	MW	10/15/2003	37.8866062	-122.2974700	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	AS-1	MW	10/15/2003	37.8866028	-122.2974140	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	VW-1	MW	10/15/2003	37.8866356	-122.2973931	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	VW-3	MW	10/15/2003	37.8866280	-122.2973406	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	MW-B	MW	10/15/2003	37.8866432	-122.2973077	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	MW-1	MW	10/15/2003	37.8866335	-122.2972693	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	VW-8	MW	10/15/2003	37.8865732	-122.2972438	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	MW-A	MW	10/15/2003	37.8865702	-122.2972849	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	S-5	MW	10/15/2003	37.8866840	-122.2974842	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	MW-6	MW	10/15/2003	37.8864115	-122.2978529	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	VW-6	MW	10/15/2003	37.8865162	-122.2972951	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	MW-3	MW	10/15/2003	37.8864594	-122.2972646	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035
T0600100081	MW-5	MW	10/15/2003	37.8863697	-122.2971832	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2035

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION #	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT #	ELEV_DESC	SITE
T0600100081	MW-2	10/15/2003	42.55	CGPS	88	0.02	URS	-0.31	4"PVC	BP2035
T0600100081	MW-4	10/15/2003	42.48	CGPS	88	0.02	URS	-0.64	4"PVC	BP2035
T0600100081	VW-4	10/15/2003	43.07	CGPS	88	0.02	URS	-0.61	4"PVC	BP2035
T0600100081	VW-7	10/15/2003	43.09	CGPS	88	0.02	URS	-0.51	4"PVC	BP2035
T0600100081	VW-5	10/15/2003	43.01	CGPS	88	0.02	URS	-0.52	4"PVC	BP2035
T0600100081	VW-9	10/15/2003	42.79	CGPS	88	0.02	URS	-0.69	4"PVC	BP2035
T0600100081	AS-2	10/15/2003	42.72	CGPS	88	0.02	URS	-0.44	2"PVC	BP2035
T0600100081	RW-1	10/15/2003	42.35	CGPS	88	0.02	URS	-0.72	10"PVC	BP2035
T0600100081	VW-2	10/15/2003	42.57	CGPS	88	0.02	URS	-0.60	4"PVC	BP2035
T0600100081	AS-1	10/15/2003	43.12	CGPS	88	0.02	URS	-0.31	2"PVC	BP2035
T0600100081	VW-1	10/15/2003	42.66	CGPS	88	0.02	URS	-0.67	4"PVC	BP2035
T0600100081	VW-3	10/15/2003	43.11	CGPS	88	0.02	URS	-0.51	4"PVC	BP2035
T0600100081	MW-B	10/15/2003	42.72	CGPS	88	0.02	URS	-1.07	4"PVC	BP2035
T0600100081	MW-1	10/15/2003	43.55	CGPS	88	0.02	URS	-0.40	4"PVC	BP2035
T0600100081	VW-8	10/15/2003	43.72	CGPS	88	0.02	URS	-0.52	4"PVC	BP2035
T0600100081	MW-A	10/15/2003	43.33	CGPS	88	0.02	URS	-0.73	4"PVC	BP2035
T0600100081	S-5	10/15/2003	41.83	CGPS	88	0.02	URS	-0.47	3"PVC	BP2035
T0600100081	MW-6	10/15/2003	42.26	CGPS	88	0.02	URS	-0.52	2"PVC	BP2035
T0600100081	VW-6	10/15/2003	43.69	CGPS	88	0.02	URS	-0.48	4"PVC	BP2035
T0600100081	MW-3	10/15/2003	43.62	CGPS	88	0.02	URS	-0.57	4"PVC	BP2035
T0600100081	MW-5	10/15/2003	44.03	CGPS	88	0.02	URS	-0.63	4"PVC	BP2035