

May 5, 2004

Ms. eva chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**Re: Second Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #2162
15135 Hesperian Boulevard
San Leandro, California
URS Project #38486718**

Dear Ms. eva chu:

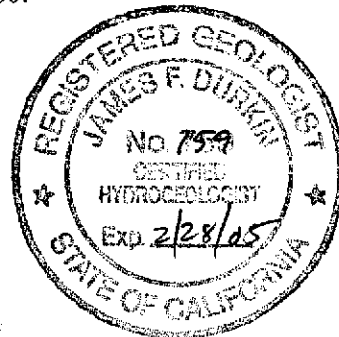
On behalf of Atlantic Richfield Company (ARCO – a BP affiliated company), URS Corporation (URS) is submitting the *Second Quarter 2004 Groundwater Monitoring Report* for the ARCO Service Station #2162, located at 15135 Hesperian Boulevard, San Leandro, California.

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

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

James F. Durkin, C.Hg
Senior Geologist

Enclosure: Second Quarter 2004 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)
Mr. Mike Bakaldin, City of San Leandro Environmental Services Division, 835 East 14th St., San Leandro, CA 94577
Mr. John Jang, RWQCB, S.F. Bay Region, 1515 Clay St., Ste. 1400, Oakland, CA 94612



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 6549
Moraga, California 94570
Phone: (925) 299-8891
Fax: (925) 299-8872

May 5, 2004

RE: Second Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #2162
15135 Hesperian Boulevard
San Leandro, CA
URS Project #38486718

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 QUARTER 2004
GROUNDWATER MONITORING**

**ARCO SERVICE STATION #2162
15135 HESPERIAN BOULEVARD
SAN LEANDRO, CALIFORNIA**

Prepared for
Atlantic Richfield Company

May 5, 2004

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612

38486718

Date: May 5, 2004
Quarter: 2Q 04

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 2162 Address: 15135 Hesperian Boulevard, San Leandro, CA
ARCO Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486718
Primary Agency: Alameda County Health Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (Second – 2004):

1. Performed second quarter groundwater monitoring event on April 5, 2004.
2. Prepared and submitted second quarter 2004 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Third – 2004):

1. Perform third quarter 2004 groundwater monitoring event.
2. Prepare and submit third quarter 2004 groundwater monitoring report.
3. Prepare and submit site closure request.

Current Phase of Project: Groundwater monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: MW-3, MW-4
Annually (3rd Quarter): MW-1, MW-2
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 7.29 ft (MW-2) to 8.77 ft (MW-4) feet
Groundwater Gradient (direction): South-Southwest
Groundwater Gradient (magnitude): 0.004 feet per foot

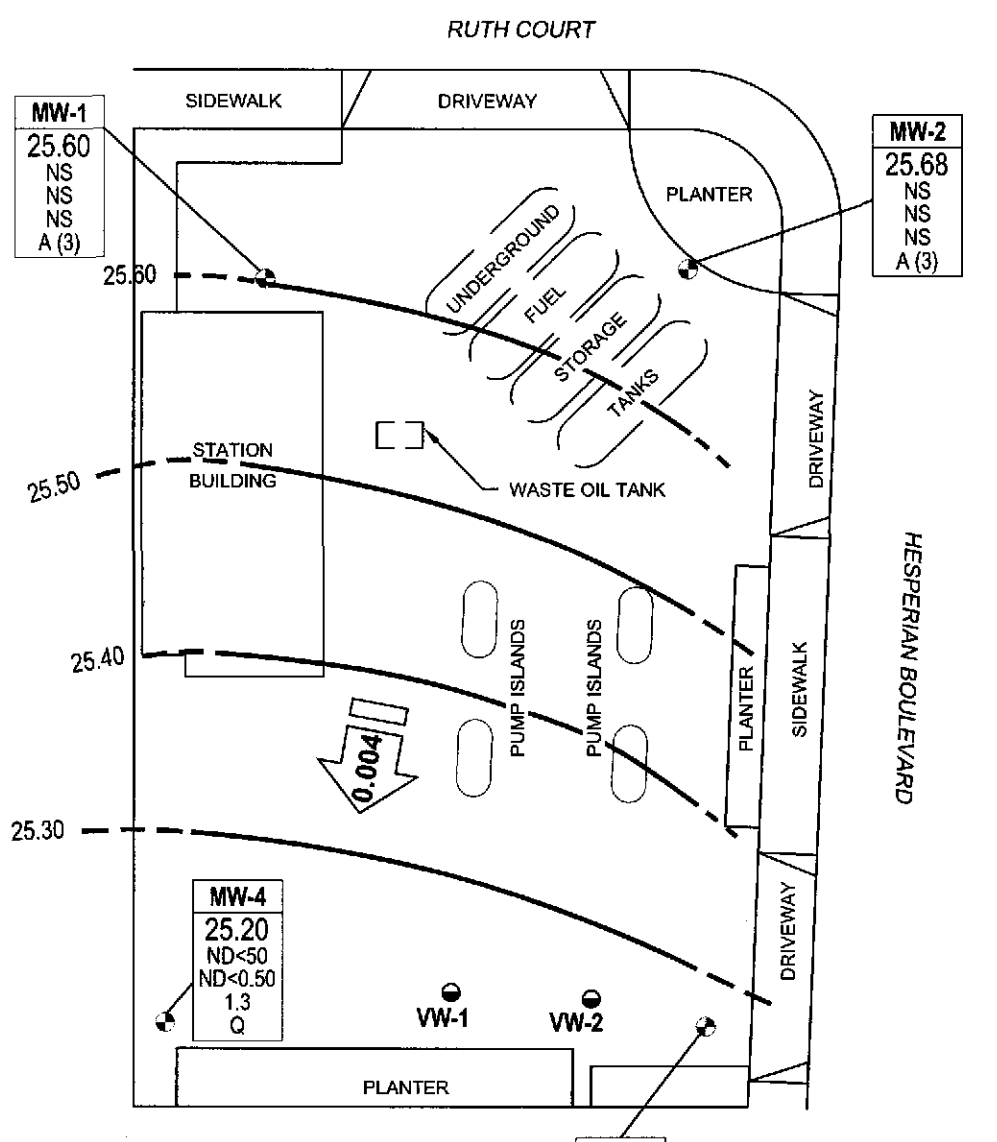
DISCUSSION:

Methyl tert-butyl ether (MTBE) was the only constituent of concern detected above the laboratory reporting limits this quarter. MTBE was detected at concentrations of 1.3 µg/L (MW-4) and 15 µg/L (MW-3).

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – April 5, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Oxygenate Analytical Data
- Table 3 – Groundwater Flow Direction and Gradient
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C – Historic Groundwater Data
- Attachment D – EDCC and EDF/Geowell Submittal Confirmation
- Attachment E – Well Survey Data

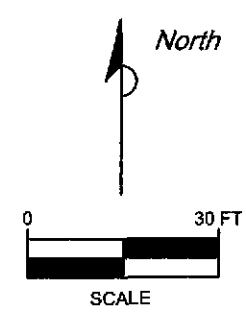
Apr. 27, 2004 - 10:41am X:\x_env\waste\JP GEN\Sheets\Scott Robinson\Paul_Supples\ELGE\Monitor\fig\01r_2_2004\Drawings\GVECC-AS_4-5.dwg



LEGEND

- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- 25.30 — WATER TABLE CONTOUR (FT ABOVE MSL)
- APPROXIMATE GROUNDWATER FLOW GRADIENT AND DIRECTION (FT/FT)
- WELL DESIGNATION
- | |
|---------|
| ELEV |
| GRO |
| Benzene |
| MTBE |
| Q or A |

 GROUNDWATER ELEVATION (FT ABOVE MSL)
GRO, BENZENE AND MTBE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
SAMPLING FREQUENCY
- ND< NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
- Q SAMPLED QUARTERLY
- A (3) ANNUAL SAMPLING DURING 3RD QUARTER



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

Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPHg) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

	Project No. 38486718	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Second Quarter 2004 (April 5, 2004)	FIGURE 1
	Arco Service Station 2162 15135 Hesperian Boulevard San Leandro, California		

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station #2162
15135 Hesperian Boulevard
San Leandro, California

Well Number	Date Sampled	Purge /No Purge	Top of Riser Elevation (ft., MSL)	Top of Screen (ft., bgs)	Bottom of Casing (ft., bgs)	Depth to Groundwater (ft., TOC)	Groundwater Elevation (ft., MSL)	GRO ^h / TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH	
MW-1	06/20/00		31.19	8.0	15.9	8.33	22.86	ND<50	ND<0.5	0.8	ND<0.5	ND<1.0	ND<10	NA	NA	
	09/29/00					9.07	22.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	12/17/00					8.69	22.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	03/23/01					8.19	23.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	06/20/01					8.97	22.22	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	09/22/01					9.56	21.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	12/28/01					8.40	22.79	ND<50	ND<0.5	ND<0.5	ND<0.5	0.63	ND<2.5	NA	NA	
	03/14/02					8.05	23.14	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	170	NA	NA	
	04/18/02					8.27	22.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NA	NA	
	07/19/02	NP				8.88	22.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	1.0	8.2	
	10/09/02 ^a					NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/28/03 ^{a,c}					NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/07/03	NP				8.28	22.91	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.6	6.9	
	07/09/03	NP				8.62	22.57	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	7.2	
	10/08/03			31.13 ^e		9.19 ^d	21.94	Sampled Annually During the 3rd Quarter-----								
	01/15/04 ^f					8.35	22.78	Sampled Annually During the 3rd Quarter-----								
04/05/04 ^{g,h}			33.70		8.10	25.60	Sampled Annually During the 3rd Quarter-----									
MW-2	06/20/00		30.38	8.0	15.9	7.38	23.00	NS	NS	NS	NS	NS	NS	NA	NA	
	09/29/00					8.08	22.30	266	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	12/17/00					7.80	22.58	175	ND<0.5	ND<0.5	0.659	ND<0.5	ND<2.5	NA	NA	
	03/23/01					7.23	23.15	351	ND<0.5	ND<0.5	0.912	ND<0.5	ND<2.5	NA	NA	
	06/20/01					7.98	22.40	360	ND<0.5	ND<0.5	0.74	ND<0.5	ND<2.5	NA	NA	
	09/22/01					8.55	21.83	190	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	12/28/01					7.53	22.85	130	ND<0.5	0.93	ND<0.5	0.51	ND<2.5	NA	NA	
	03/14/02					7.17	23.21	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	04/18/02					7.31	23.07	74	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NA	NA	
	07/19/02	P				7.93	22.45	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	1.1	7.6	
	10/09/02	P				8.55	21.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	0.7	7.3	
	03/28/03 ^c	P				7.30	23.08	ND<50	ND<0.50	0.83	ND<0.50	ND<0.50	ND<0.50	1.48	7.7	
	04/07/03	P				7.36	23.02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	7.0	
	07/09/03	P				7.71	22.67	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.5	7.6	
	10/08/03					8.25	22.13	Sampled Annually During the 3rd Quarter-----								
	01/15/04 ^f					7.55	22.83	Sampled Annually During the 3rd Quarter-----								
04/05/04 ^{g,h}			32.97		7.29	25.68	Sampled Annually During the 3rd Quarter-----									

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #2162
15135 Hesperian Boulevard
San Leandro, California

Well Number	Date Sampled	Purge /No Purge	Top of Riser Elevation (ft., MSL)	Top of Screen (ft., bgs)	Bottom of Casing (ft., bgs)	Depth to Groundwater (ft., TOC)	Groundwater Elevation (ft., MSL)	GRO th /TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH
MW-3	06/20/00		30.30	9.0	14.8	7.75	22.55	NS	NS	NS	NS	NS	NS	NA	NA
	09/29/00					8.46	21.84	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	128	NA	NA
	12/17/00					8.01	22.29	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	46.7	NA	NA
	03/23/01					7.70	22.60	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	26.8	NA	NA
	06/20/01					8.23	22.07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30	NA	NA
	09/22/01					8.89	21.41	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	NA	NA
	12/28/01					7.83	22.47	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.2	NA	NA
	03/14/02					7.48	22.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	47	NA	NA
	04/18/02					7.62	22.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NA	NA
	07/19/02	P				8.23	22.07	100 ^b	ND<1.0	ND<1.0	ND<1.0	ND<1.0	330	0.9	7.6
	10/09/02	P				8.83	21.47	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	61	0.5	7.4
	03/28/03 ^c	P				7.85	22.45	52	ND<0.50	1.2	ND<0.50	ND<0.50	45	1.42	7.6
	04/07/03	P				7.71	22.59	56	ND<0.50	ND<0.50	ND<0.50	ND<0.50	56	1.1	6.8
	07/09/03	P				8.00	22.30	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	87	1.6	7.4
	10/08/03	P				8.59	21.71	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	25	0.9	7.0
	01/15/04 ^f	P				7.90	22.40	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.8	2.9	7.3
04/05/04 ^{g,h}	P		32.89		7.61	25.28	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	15	1.5	7.0	
MW-4	06/20/00		30.39	8.0	17.5	8.87	21.52	NS	NS	NS	NS	NS	NS	NA	NA
	09/29/00					9.61	20.78	ND<50	1.02	ND<0.5	ND<0.5	ND<0.5	12.2	NA	NA
	12/17/00					9.17	21.22	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.81	NA	NA
	03/23/01					8.70	21.69	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.04	NA	NA
	06/20/01					9.51	20.88	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	09/22/01					10.06	20.33	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.2	NA	NA
	12/28/01					8.86	21.53	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.3	NA	NA
	03/14/02					8.52	21.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.1	NA	NA
	04/18/02					8.76	21.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NA	NA
	07/19/02	NP				9.39	21.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30	1.8	7.8
	10/09/02	NP				10.08	20.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28	1.0	8.0
	03/28/03 ^c	NP				8.88	21.51	ND<50	ND<0.50	1.3	ND<0.50	ND<0.50	4.4	0.98	7.2
	04/07/03	NP				8.78	21.61	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	14	1.1	7.0
	07/09/03	NP				9.14	21.25	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	1.6	7.4
	10/08/03	NP				9.77 ^d	20.62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.1	2.6	6.4
	01/15/04 ^f	P				8.68	21.71	ND<50	1.4	0.84	ND<0.50	1.5	6.6	2.9	7.1
04/05/04 ^{g,h}	NP		33.97		8.77	25.20	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.3	1.2	7.0	

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #2162
15135 Hesperian Boulevard
San Leandro, California

bgs	= below ground surface
ft	= feet
GRO	= Gasoline Range Organics (C4-C12)
mg/L	= Milligrams per liter equivalent to parts per million (ppm)
MSL	= Mean sea level
MTBE	= Methyl tertiary butyl ether
ND<	= Not detected at or above specified laboratory reporting limit
NP	= No Purge
NS	= Not sampled
P	= Purge
TOC	= Top of casing
TPH	= Total petroleum hydrocarbons
µg/L	= Micrograms per liter equivalent to parts per billion (ppb)
a	= Well not accessible - car parked over.
b	= Hydrocarbon pattern is present in the requested fuel quantitation range but does not represent the pattern of the requested fuel
c	=TPH-g, BTEX and MTBE analyzed by EPA method 8260 beginning on 1st Quarter 2003 sampling event (3/28/03)
d	= Guaged with stinger in well
e	= Well casing lowered 0.06 feet during well repairs on 9/17/03
f	= Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPH-g) has been changed to Gasoline Range Organics (GRO). The resulting sata may be impacted by the potential inclusion of non-TPH-g analytes within requested fuel range resulting in a higher concentration being reported.
g	= Wells surveyed to NAVD'88 datum by URS Corporation on February 23, 2004.
h	= Beginning Second Quarter 2004, the carbon range for GRO has been changed from C6-C10 to C4-C12.

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

Table 2
Fuel Oxygenate Analytical Data

ARCO Service Station #2162
15135 Hesperian Boulevard
San Leandro, California

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	04/07/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	07/09/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2	03/28/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	04/07/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	07/09/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-3	03/28/03	ND<100	ND<20	45	ND<0.50	ND<0.50	0.73	ND<0.50	ND<0.50
	04/07/03	ND<100	ND<20	56	ND<0.50	ND<0.50	0.72	ND<0.50	ND<0.50
	07/09/03	ND<1,000	ND<200	87	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/08/03	ND<100	ND<20	25	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	01/15/04	ND<100	ND<20 ^a	9.8	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50 ^a
	04/05/04	ND<100	ND<20	15	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-4	03/28/03	ND<100	ND<20	4.4	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	04/07/03	ND<100	ND<20	14	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	07/09/03	ND<100	ND<20	1.8	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/08/03	ND<100	ND<20	3.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	01/15/04	ND<100	ND<20 ^a	6.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50 ^a
	04/05/04	ND<100	ND<20	1.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Notes:

All fuel oxygenate compounds analyzed using EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

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

TAME = Tert-amyl methyl ether

TBA = Tert-butyl alcohol

µg/L = Micrograms per liter

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

**Table 3
Groundwater Flow Direction and Gradient**

ARCO Service Station #2162
15135 Hesperian Boulevard
San Leandro, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
06/20/00	Southwest	0.010
09/29/00	Southwest	0.010
12/17/00	Southwest	0.010
03/23/01	Southwest	0.011
06/20/01	Southwest	0.013
09/22/01	Southwest	0.012
12/28/01	Southwest	0.010
03/14/02	Southwest	0.011
04/18/02	Southwest	0.012
07/19/02	Southwest	0.012
10/09/02	Southwest	0.013
03/28/03	Southwest	0.013
04/07/03	Southwest	0.011
07/09/03	Southwest	0.010
10/08/03	Southwest	0.010
01/15/04	Southwest	0.008
04/05/04	South-Southwest	0.004

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

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040405-AC2</u>	Station # <u>262</u>
Sampler: <u>Ac</u>	Date: <u>4/5/04</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u>15.00</u>	Depth to Water: <u>7.61</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grmde	D.O. Meter (if req'd): <u>(YSI)</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer (Disposable Bailer)
 Positive Air Displacement Extraction Port
 (Electric Submersible) Other: _____
 Extraction Pump
 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>5</u>	x	<u>3</u>	=	<u>15</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1142</u>	<u>65.5</u>	<u>7.1</u>	<u>721</u>	<u>5</u>	<u>clear</u>
<u>1143</u>	<u>66.4</u>	<u>7.0</u>	<u>737</u>	<u>10</u>	<u>"</u>
<u>1144</u>	<u>66.8</u>	<u>7.0</u>	<u>738</u>	<u>15</u>	<u>"</u>

Did well dewater? Yes (No) Gallons actually evacuated: 15

Sampling Time: 1150 Sampling Date: 4/5/04

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

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's (5) EDB, 1,2-DCA, Ethanol

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040405-AC2</u>	Station # <u>462</u>
Sampler: <u>Ac</u>	Date: <u>4/5/04</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u>17.75</u>	Depth to Water: <u>8.77</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"	0.09	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Boiler</u> Disposable Boiler Positive Air Displacement Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Boiler</u> <u>(Disposable Boiler)</u> Extraction Port Other: _____
------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------

Top of Screen: 8 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>	X	_____	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>1215</u>	<u>67.4</u>	<u>7.0</u>	<u>847</u>	<u>—</u>	<u>clear</u>
					* used BTS Stock 10As

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: <u> </u>
Sampling Time: <u>1215</u>	Sampling Date: <u>4/5/04</u>
Sample I.D.: <u>MW-4</u>	Laboratory: Pace <u>(Sequoia)</u> Other _____
Analyzed for: <u>(TPH-G) (BTEX)</u> MTBE TPH-D Other: <u>Oxy's (S)</u> <u>EDB</u> , <u>1,2-DCA</u> , <u>Ethanol</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>1.2</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

BP GEM OIL COMPANY TYPE A BILL OF LADING

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

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

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

<u>2162</u>		
Station #		
<u>15135 Hesperian San Leandro</u>		
Station Address		
Total Gallons Collected From Groundwater Monitoring Wells:		
<u>20</u>		
added equip.	any other	
rinse water <u>5</u>	adjustments _____	
TOTAL GALS.	loaded onto	
RECOVERED <u>25</u>	BTS vehicle # <u>52</u>	
BTS event #	time	date
<u>040905.ACL</u>	<u>1300</u>	<u>4/5/04</u>
signature <u>Alan Costa</u>		

REC'D AT	time	date
_____	_____	____/____/____
unloaded by		
signature _____		

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



20 April, 2004

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

RE: ARCO #2162, San Leandro, CA
Work Order: MND0110

Enclosed are the results of analyses for samples received by the laboratory on 04/06/04 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612Project: ARCO #2162, San Leandro, CA
Project Number: INTRIM-50319
Project Manager: Scott RobinsonMND0110
Reported:
04/20/04 13:45**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	MND0110-01	Water	04/05/04 11:50	04/06/04 16:00
MW-4	MND0110-02	Water	04/05/04 12:15	04/06/04 16:00

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

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

Project: ARCO #2162, San Leandro, CA
Project Number: INTRIM-50319
Project Manager: Scott Robinson

MND0110
Reported:
04/20/04 13:45

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MND0110-01) Water Sampled: 04/05/04 11:50 Received: 04/06/04 16:00									
Ethanol	ND	100	ug/l	1	4D09004	04/09/04	04/10/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	15	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>103 %</i>	<i>78-129</i>						
MW-4 (MND0110-02) Water Sampled: 04/05/04 12:15 Received: 04/06/04 16:00									
Ethanol	ND	100	ug/l	1	4D09004	04/09/04	04/10/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	1.3	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>103 %</i>	<i>78-129</i>						

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

Project: ARCO #2162, San Leandro, CA
Project Number: INTRIM-50319
Project Manager: Scott Robinson

MND0110
Reported:
04/20/04 13:45

**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 4D09004 - EPA 5030B P/T

Blank (4D09004-BLK1)

Prepared & Analyzed: 04/09/04

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	5.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							

Surrogate: 1,2-Dichloroethane-d4

4.73

"

5.00

94.6

78-129

Laboratory Control Sample (4D09004-BS1)

Prepared & Analyzed: 04/09/04

Ethanol	192	100	ug/l	200		96.0	31-186			
tert-Butyl alcohol	46.9	5.0	"	50.0		93.8	0-206			
Methyl tert-butyl ether	9.74	0.50	"	10.0		97.4	63-137			
Di-isopropyl ether	10.2	0.50	"	10.0		102	76-130			
Ethyl tert-butyl ether	9.85	0.50	"	10.0		98.5	61-141			
tert-Amyl methyl ether	9.46	0.50	"	10.0		94.6	56-140			
1,2-Dichloroethane	9.55	0.50	"	10.0		95.5	77-136			
1,2-Dibromoethane (EDB)	8.81	0.50	"	10.0		88.1	77-132			
Benzene	9.84	0.50	"	10.0		98.4	78-124			
Toluene	9.48	0.50	"	10.0		94.8	78-129			
Ethylbenzene	9.94	0.50	"	10.0		99.4	84-117			
Xylenes (total)	26.9	0.50	"	30.0		89.7	83-125			

Surrogate: 1,2-Dichloroethane-d4

4.59

"

5.00

91.8

78-129

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

 Project: ARCO #2162, San Leandro, CA
 Project Number: INTRIM-50319
 Project Manager: Scott Robinson

 MND0110
 Reported:
 04/20/04 13:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D09004 - EPA 5030B P/T										
Laboratory Control Sample (4D09004-BS2)					Prepared & Analyzed: 04/09/04					
Gasoline Range Organics (C4-C12)	360	50	ug/l	440		81.8	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.67</i>		"	<i>5.00</i>		<i>93.4</i>	<i>78-129</i>			
Laboratory Control Sample Dup (4D09004-BSD1)					Prepared & Analyzed: 04/09/04					
Ethanol	218	100	ug/l	200		109	31-186	12.7	37	
tert-Butyl alcohol	47.3	5.0	"	50.0		94.6	0-206	0.849	22	
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	63-137	3.63	13	
Di-isopropyl ether	10.6	0.50	"	10.0		106	76-130	3.85	9	
Ethyl tert-butyl ether	10.3	0.50	"	10.0		103	61-141	4.47	9	
tert-Amyl methyl ether	10.1	0.50	"	10.0		101	56-140	6.54	12	
1,2-Dichloroethane	10.0	0.50	"	10.0		100	77-136	4.60	13	
1,2-Dibromoethane (EDB)	9.16	0.50	"	10.0		91.6	77-132	3.90	9	
Benzene	10.1	0.50	"	10.0		101	78-124	2.61	12	
Toluene	9.61	0.50	"	10.0		96.1	78-129	1.36	10	
Ethylbenzene	9.93	0.50	"	10.0		99.3	84-117	0.101	10	
Xylenes (total)	27.7	0.50	"	30.0		92.3	83-125	2.93	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.53</i>		"	<i>5.00</i>		<i>90.6</i>	<i>78-129</i>			
Laboratory Control Sample Dup (4D09004-BSD2)					Prepared & Analyzed: 04/09/04					
Gasoline Range Organics (C4-C12)	441	50	ug/l	440		100	70-124	20.2	20	QC21
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.66</i>		"	<i>5.00</i>		<i>93.2</i>	<i>78-129</i>			
Matrix Spike (4D09004-MS1)					Source: MND0185-01		Prepared: 04/09/04 Analyzed: 04/10/04			
Ethanol	4070	2000	ug/l	4000	ND	102	31-186			
tert-Butyl alcohol	921	100	"	1000	ND	92.1	0-206			
Methyl tert-butyl ether	1220	10	"	200	1100	60.0	63-137			QM05
Di-isopropyl ether	199	10	"	200	ND	99.5	76-130			
Ethyl tert-butyl ether	192	10	"	200	ND	96.0	61-141			
tert-Amyl methyl ether	190	10	"	200	6.8	91.6	56-140			
1,2-Dichloroethane	198	10	"	200	ND	99.0	77-126			
1,2-Dibromoethane (EDB)	176	10	"	200	ND	88.0	77-132			
Benzene	193	10	"	200	ND	96.5	78-124			
Toluene	180	10	"	200	ND	90.0	78-129			
Ethylbenzene	189	10	"	200	ND	94.5	84-117			
Xylenes (total)	522	10	"	600	ND	87.0	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.66</i>		"	<i>5.00</i>		<i>93.2</i>	<i>78-129</i>			

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]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #2162, San Leandro, CA
Project Number: INTRIM-50319
Project Manager: Scott Robinson

MND0110
Reported:
04/20/04 13:45

**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 4D09004 - EPA 5030B P/T

Matrix Spike Dup (4D09004-MSD1)	Source: MND0185-01			Prepared: 04/09/04		Analyzed: 04/10/04				
Ethanol	4890	2000	ug/l	4000	ND	122	31-186	18.3	37	
tert-Butyl alcohol	991	100	"	1000	ND	99.1	0-206	7.32	22	
Methyl tert-butyl ether	1260	10	"	200	1100	80.0	63-137	3.23	13	
Di-isopropyl ether	202	10	"	200	ND	101	76-130	1.50	9	
Ethyl tert-butyl ether	194	10	"	200	ND	97.0	61-141	1.04	9	
tert-Amyl methyl ether	194	10	"	200	6.8	93.6	56-140	2.08	12	
1,2-Dichloroethane	200	10	"	200	ND	100	77-126	1.01	13	
1,2-Dibromoethane (EDB)	179	10	"	200	ND	89.5	77-132	1.69	9	
Benzene	198	10	"	200	ND	99.0	78-124	2.56	12	
Toluene	188	10	"	200	ND	94.0	78-129	4.35	10	
Ethylbenzene	195	10	"	200	ND	97.5	84-117	3.12	10	
Xylenes (total)	542	10	"	600	ND	90.3	83-125	3.76	11	
Surrogate: 1,2-Dichloroethane-d4	4.85		"	5.00		97.0	78-129			

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612Project: ARCO #2162, San Leandro, CA
Project Number: INTRIM-50319
Project Manager: Scott RobinsonMND0110
Reported:
04/20/04 13:45

Notes and Definitions

- QM05 The spike recovery was below control limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- QC21 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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

MND0110

Project Name 2162 GWM
 BP BU/GEM CO Portfolio Retail
 BP Laboratory Contract Number: Atlantic Richfield Company
 Requested Due Date (mm/dd/yy) 14 day TAT

Date: 4/5/04

On-site Time: 1120 Temp: 65°
 Off-site Time: 1300 Temp: 65°
 Sky Conditions: cloudy
 Meteorological Events:
 Wind Speed: 5 mph Direction: NE

Send To:	BP/GEM Facility No.: <u>ARCO 2162</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>15135 HESPERIAN BLVD, San Leandro, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 2162</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.cosper@URSCorp.com</u>
Lab PM <u>Lisa Race</u>	California Global ID #: <u>T0600100084</u>	Consultant/Contractor Project No.: <u>J5-00002162.01 00427</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/GEM Account No.:	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
Lab Bottle Order No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50319</u>

Item No.	Sample Description	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	GRO/BTEX (8015)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DPE, TBA (8260)	1,2-DCA & EDB (8260)	
1	MW-3	1150	X				01	3				X			X	X	X		
2	MW-4	1215	X				02	3				X			X	X	X		
3	TB/2162/04052009		X				03	2											on Hold
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Aaron Costa</u>	Relinquished By / Affiliation: <u>Aaron Costa</u>	Date: <u>4/6/04</u>	Time: <u>10:14</u>	Accepted By / Affiliation: <u>MAURICE SEALS</u>	Date: <u>4/6/04</u>	Time: <u>10:14</u>
Sampler's Company: <u>Blaine Tech</u>						
Shipment Date: <u>4/6/04</u>						
Shipment Method:						
Shipment Tracking No:						

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

Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 5 °F (0) Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: MRS
 REC. BY (PRINT) EB
 WORKORDER: MNDOLLO

DATE REC'D AT LAB: 4-6-04
 TIME REC'D AT LAB: 16:00
 DATE LOGGED IN: 4-7-04

DRINKING WATER for
 regulatory purposes: YES NO
 WASTE WATER for
 regulatory purposes: YES NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	<input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent <input checked="" type="checkbox"/> Intact / <input type="checkbox"/> Broken*	01		MW-3	3 Ltr	ACC	L	4-5-04	4-7-04 MND
2. Chain-of-Custody	<input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent*	02		4	↓	↓	↓		
3. Traffic Reports or Packing List:	<input type="checkbox"/> Present / <input checked="" type="checkbox"/> Absent	03		TP 0162 / 0402004	2 Ltr	↓	↓	↓	
4. Airtail:	<input type="checkbox"/> Airtail / <input type="checkbox"/> Sticker <input type="checkbox"/> Present / <input checked="" type="checkbox"/> Absent								
5. Airtail #:									
6. Sample Labels:	<input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent								
7. Sample IDs:	<input checked="" type="checkbox"/> Listed / <input type="checkbox"/> Not Listed on Chain-of-Custody								
8. Sample Condition:	<input checked="" type="checkbox"/> Intact / <input type="checkbox"/> Broken* / <input type="checkbox"/> Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*								
10. Sample received within hold time:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*								
11. Adequate sample volume received?	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*								
12. Proper Preservatives used:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*								
13. Temp Rec. at Lab: Is temp 4 ±1.2°C?	<u>5 C</u> <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No**								

(Acceptance range for samples requiring thermal pres.)
 **Exception (if any): METALS / OFF ON ICE or Problem COC

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

ATTACHMENT C

HISTORIC GROUNDWATER DATA

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-1	02/26/96	31.19	7.14	24.05	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
MW-1	05/23/96	31.19	7.70	23.49	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
MW-1	08/21/96	31.19	8.75	22.44	210	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-1	11/20/96	31.19	8.62	22.57	91	<0.5	<0.5	<0.5	<0.5	2.6	NA	NA	
MW-1	04/01/97	31.19	8.70	22.49	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-1	06/10/97	31.19	8.45	22.74	94	<0.5	<0.5	<0.5	<0.5	6.4	NA	NA	NP
MW-1	09/17/97	31.19	9.20	21.99	<50	<0.5	<0.5	0.68	0.56	10	NA	NA	NP
MW-1	12/12/97	31.19	8.00	23.19	<200	<2	<2	<0.5	<0.5	180	NA	1.0	NP
MW-1	03/25/98	31.19	7.00	24.19	<200	<2	<2	<2	<2	180	NA	2.0	NP
MW-1	05/14/98	31.19	7.46	23.73	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	2.0	
MW-1	07/31/98	31.19	8.10	23.09	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	1.17	P
MW-1	10/12/98	31.19	8.60	22.59	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	2.0	NP
MW-1	02/11/99	31.19	7.32	23.87	<50	<0.5	<0.5	<0.5	<0.5	9	NA	2.5	NP
MW-1	06/23/99	31.19	8.40	22.79	<50	<0.5	<0.5	<0.5	<0.5	25	NA	1.0	P
MW-1	08/23/99	31.19	8.85	22.34	55	<0.5	<0.5	<0.5	<0.5	<3	NA	1.36	NP
MW-1	10/27/99	31.19	8.50	22.69	<50	<0.5	0.6	<0.5	<0.5	5	NA	1.42	NP
MW-1	02/09/00	31.19	8.11	23.08	<50	<0.5	<0.5	<0.5	<1	90	NA	0.83	NP
					<50	<0.5	<0.5	<0.5	<1	9	NA	0.77	NP
MW-2	02/26/96	30.38	6.41	23.97	770	<0.5	<0.5	45	28	NA	NA	NA	
MW-2	05/23/96	30.38	6.80	23.58	590	0.50	<0.5	35	18	NA	NA	NA	
MW-2	08/21/96	30.38	7.80	22.58	170	<0.5	<0.5	21	6.3	<2.5	NA	NA	
MW-2	11/20/96	30.38	7.73	22.65	88	<0.5	<0.5	7.9	1.1	<2.5	NA	NA	
MW-2	04/01/97	30.38	7.83	22.55	66	<0.5	<0.5	3.6	0.56	33	NA	NA	
MW-2	06/10/97	30.38	7.52	22.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-2	09/17/97	30.38	8.24	22.14	<50	<0.5	<0.5	<0.5	<0.5	<3.0	NA	0.6	NP
MW-2	12/12/97	30.38	7.10	23.28	<50	<0.5	<0.5	<0.5	<0.5	<3.0	NA	1.2	NP
MW-2	03/25/98	30.38	6.27	24.11	<50	<0.5	<0.5	0.7	0.5	55	NA	1.0	
MW-2	05/14/98	30.38	6.54	23.84	210	<0.5	<0.5	3.3	<0.5	42	NA	1.47	P
MW-2	07/31/98	30.38	7.14	23.24	230	<0.5	<0.5	3.9	<0.5	6	NA	1.0	P

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-2	10/12/98	30.38	7.65	22.73	110	<0.5	<0.5	1.5	<0.5	<3	NA	1.0	P
MW-2	02/11/99	30.38	6.55	23.83	660	<0.5	<0.5	6.7	0.7	3	NA	1.0	P
MW-2	06/23/99	30.38	7.48	22.90	270	<0.5	<0.5	2.2	0.8	<3	NA	NM	P
MW-2	08/23/99	30.38	7.89	22.49	200	<0.5	0.9	1.8	<0.5	<3	NA	1.17	P
MW-2	10/27/99	30.38	8.30	22.08	2,100	1.0	2.5	14	3	3	NA	0.75	NP
MW-2	02/09/00	30.38	8.02	22.36	<50	<0.5	<0.5	<0.5	<1	5	NA	0.69	NP
MW-3	02/26/96	30.30	6.72	23.58	120	5.0	<0.5	<0.5	<0.5	NA	NA	NA	
MW-3	05/23/96	30.30	7.18	23.12	140	12	<0.5	<0.5	<0.5	NA	NA	NA	
MW-3	08/21/96	30.30	8.17	22.13	<50	1.1	<0.5	<0.5	<0.5	130	NA	NA	
MW-3	11/20/96	30.30	8.03	22.27	55	<0.5	<0.5	<0.5	<0.5	59	NA	NA	
MW-3	04/01/97	30.30	8.09	22.21	<50	<0.5	<0.5	<0.5	<0.5	180	NA	NA	NP
MW-3	06/10/97	30.30	7.97	22.33	<50	<0.5	<0.5	<0.5	<0.5	1,900	NA	NA	NP
MW-3	09/17/97	30.30	8.54	21.76	<5,000	<50	<50	<50	<50	1,100	860	2.2	NP
MW-3	12/12/97	30.30	7.50	22.80	560	<5.0	<5.0	<5.0	5.0	370	NA	1.4	NP
MW-3	03/25/98	30.30	6.60	23.70	<500	<5	<5	<5	<5	470	NA	1.0	
MW-3	05/14/98	30.30	7.13	23.17	750	<5	<5	<5	<5	630	NA	1.97	P
MW-3	07/31/98	30.30	7.58	22.72	<500	<5	<5	<5	<5	590	NA	1.0	P
MW-3	10/12/98	30.30	8.00	22.30	<500	<5	<5	<5	<5	600	NA	2.0	P
MW-3	02/11/99	30.30	6.90	23.40	<500	<5	<5	<5	<5	280	NA	1.0	P
MW-3	06/23/99	30.30	7.82	22.48	220	<0.5	3.2	<0.5	<0.5	740	NA	1.98	P
MW-3	08/23/99	30.30	8.28	22.02	<50	<0.5	1.1	<0.5	<0.5	230	NA	1.20	P
MW-3	10/27/99	30.30	9.27	21.03	<50	<0.5	<0.5	<0.5	<1	<3	NA	0.81	NP
MW-3	02/09/00	30.30	7.45	22.85	<50	<0.5	<0.5	<0.5	<1	80	NA	0.81	P
MW-4	02/26/96	30.39	7.59	22.80	110	9.9	<0.5	<0.5	<0.5	NA	NA	NA	
MW-4	05/23/96	30.39	8.22	22.17	69	8.0	<0.5	<0.5	<0.5	NA	NA	NA	
MW-4	08/21/96	30.39	9.28	21.11	<50	6.8	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-4	11/20/96	30.39	9.12	21.27	95	10	0.59	<0.5	0.52	3.8	NA	NA	

OAK:\ARCO\2162\QTRLY\2162 Historical.XLS\wlr:1

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

Well Number	Date Gauged/ Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE 8021B* (ppb)	MTBE 8260 (ppb)	Dissolved Oxygen (ppm)	Purged/ Not Purged (P/NP)
MW-4	04/01/97	30.39	8.45	21.94	73	5.7	<0.5	<0.5	<0.5	<2.5	NA	NA	
MW-4	06/10/97	30.39	9.00	21.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NP
MW-4	09/17/97	30.39	9.76	20.63	<50	3.2	<0.5	<0.5	<0.5	8.0	NA	0.2	NP
MW-4	12/12/97	30.39	8.45	21.94	<50	2.9	<0.5	<0.5	<0.5	14	NA	1.0	NP
MW-4	03/25/98	30.39	7.52	22.87	58	2.8	<0.5	<0.5	<0.5	<3	NA	3.0	NP
MW-4	05/14/98	30.39	8.03	22.36	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	3.24	NP
MW-4	07/31/98	30.39	8.67	21.72	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	2.0	NP
MW-4	10/12/98	30.39	9.15	21.24	<50	<0.5	<0.5	<0.5	<0.5	4	NA	1.5	NP
MW-4	02/11/99	30.39	7.80	22.59	61	2.5	<0.5	<0.5	<0.5	6	NA	1.0	P
MW-4	06/23/99	30.39	9.00	21.39	<50	<0.5	<0.5	<0.5	<0.5	<3	NA	1.42	NP
MW-4	08/23/99	30.39	9.31	21.08	<50	<0.5	<0.5	<0.5	<0.5	6	NA	1.53	NP
MW-4	10/27/99	30.39	9.80	20.59	<50	<0.5	<0.5	<0.5	<0.5	6	NA	0.98	NP
MW-4	02/09/00	30.39	8.63	21.76	<50	<0.5	<0.5	<0.5	<1	7	NA	0.74	NP

TPPH = Total purgeable petroleum hydrocarbons by modified EPA method 8015.
 BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 10/27/99).
 MTBE = Methyl tert -Butyl Ether
 * = EPA method 8020 prior to 10/27/99
 MSL = Mean sea level
 TOC = Top of casing
 ppb = Parts per billion
 ppm = Parts per million
 NA = Not analyzed
 NM = Not measured
 < = Denotes concentration not present above laboratory detection limited stated to the right

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

04/20/04

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #2162, San Leandro,
Work Order Number:	MND0110
Global ID:	T0600100084
Lab Report Number:	MND0110042020041345

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MND0110042020 041345	MW-3	MND011001	W	CS	8260FA	SW5030B	04/05/04	04/09/04	04/10/04	4D09004	1
MND0110042020 041345	MW-4	MND011002	W	CS	8260FA	SW5030B	04/05/04	04/09/04	04/10/04	4D09004	1
		MND018501	W	NC	8260FA	SW5030B	//	04/09/04	04/10/04	4D09004	1
		4D09004BSD1	WQ	BD1	8260FA	SW5030B	//	04/09/04	04/09/04	4D09004	1
		4D09004BSD2	WQ	BD2	8260FA	SW5030B	//	04/09/04	04/09/04	4D09004	1
		4D09004BS1	WQ	BS1	8260FA	SW5030B	//	04/09/04	04/09/04	4D09004	1
		4D09004BS2	WQ	BS2	8260FA	SW5030B	//	04/09/04	04/09/04	4D09004	1
		4D09004BLK1	WQ	LB1	8260FA	SW5030B	//	04/09/04	04/09/04	4D09004	1
		4D09004MS1	W	MS1	8260FA	SW5030B	//	04/09/04	04/10/04	4D09004	1
		4D09004MSD1	W	SD1	8260FA	SW5030B	//	04/09/04	04/10/04	4D09004	1

EDFSAMP: Error Summary Log

04/20/04

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

EDFTEST: Error Summary Log

04/20/04

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

EDFRES: Error Summary Log

04/20/04

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4D09004MS1	MS1	W	8260FA	PR	04/10/04	1	BZ
Warning: extra parameter	4D09004MS1	MS1	W	8260FA	PR	04/10/04	1	BZME
Warning: extra parameter	4D09004MS1	MS1	W	8260FA	PR	04/10/04	1	DCA12D4
Warning: extra parameter	4D09004MS1	MS1	W	8260FA	PR	04/10/04	1	EBZ
Warning: extra parameter	4D09004MS1	MS1	W	8260FA	PR	04/10/04	1	XYLENES
Warning: extra parameter	4D09004MSD1	SD1	W	8260FA	PR	04/10/04	1	BZ
Warning: extra parameter	4D09004MSD1	SD1	W	8260FA	PR	04/10/04	1	BZME
Warning: extra parameter	4D09004MSD1	SD1	W	8260FA	PR	04/10/04	1	DCA12D4
Warning: extra parameter	4D09004MSD1	SD1	W	8260FA	PR	04/10/04	1	EBZ
Warning: extra parameter	4D09004MSD1	SD1	W	8260FA	PR	04/10/04	1	XYLENES
Warning: extra parameter	MND011001	CS	W	8260FA	PR	04/10/04	1	BZ
Warning: extra parameter	MND011001	CS	W	8260FA	PR	04/10/04	1	BZME
Warning: extra parameter	MND011001	CS	W	8260FA	PR	04/10/04	1	DCA12D4
Warning: extra parameter	MND011001	CS	W	8260FA	PR	04/10/04	1	EBZ
Warning: extra parameter	MND011001	CS	W	8260FA	PR	04/10/04	1	GROC4C12
Warning: extra parameter	MND011001	CS	W	8260FA	PR	04/10/04	1	XYLENES
Warning: extra parameter	MND011002	CS	W	8260FA	PR	04/10/04	1	BZ
Warning: extra parameter	MND011002	CS	W	8260FA	PR	04/10/04	1	BZME
Warning: extra parameter	MND011002	CS	W	8260FA	PR	04/10/04	1	DCA12D4
Warning: extra parameter	MND011002	CS	W	8260FA	PR	04/10/04	1	EBZ
Warning: extra parameter	MND011002	CS	W	8260FA	PR	04/10/04	1	GROC4C12
Warning: extra parameter	MND011002	CS	W	8260FA	PR	04/10/04	1	XYLENES
Warning: extra parameter	MND018501	NC	W	8260FA	PR	04/10/04	1	BZ
Warning: extra parameter	MND018501	NC	W	8260FA	PR	04/10/04	1	BZME
Warning: extra parameter	MND018501	NC	W	8260FA	PR	04/10/04	1	DCA12D4

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MND018501	NC	W	8260FA	PR	04/10/04	1	EBZ
Warning: extra parameter	MND018501	NC	W	8260FA	PR	04/10/04	1	XYLENES
Warning: extra parameter	4D09004BLK1	LB1	WQ	8260FA	PR	04/09/04	1	BZ
Warning: extra parameter	4D09004BLK1	LB1	WQ	8260FA	PR	04/09/04	1	BZME
Warning: extra parameter	4D09004BLK1	LB1	WQ	8260FA	PR	04/09/04	1	DCA12D4
Warning: extra parameter	4D09004BLK1	LB1	WQ	8260FA	PR	04/09/04	1	EBZ
Warning: extra parameter	4D09004BLK1	LB1	WQ	8260FA	PR	04/09/04	1	GROC4C12
Warning: extra parameter	4D09004BLK1	LB1	WQ	8260FA	PR	04/09/04	1	XYLENES
Warning: extra parameter	4D09004BS1	BS1	WQ	8260FA	PR	04/09/04	1	BZ
Warning: extra parameter	4D09004BS1	BS1	WQ	8260FA	PR	04/09/04	1	BZME
Warning: extra parameter	4D09004BS1	BS1	WQ	8260FA	PR	04/09/04	1	DCA12D4
Warning: extra parameter	4D09004BS1	BS1	WQ	8260FA	PR	04/09/04	1	EBZ
Warning: extra parameter	4D09004BS1	BS1	WQ	8260FA	PR	04/09/04	1	XYLENES
Warning: extra parameter	4D09004BS2	BS2	WQ	8260FA	PR	04/09/04	1	DCA12D4
Warning: extra parameter	4D09004BS2	BS2	WQ	8260FA	PR	04/09/04	1	GROC4C12
Warning: extra parameter	4D09004BSD1	BD1	WQ	8260FA	PR	04/09/04	1	BZ
Warning: extra parameter	4D09004BSD1	BD1	WQ	8260FA	PR	04/09/04	1	BZME
Warning: extra parameter	4D09004BSD1	BD1	WQ	8260FA	PR	04/09/04	1	DCA12D4
Warning: extra parameter	4D09004BSD1	BD1	WQ	8260FA	PR	04/09/04	1	EBZ
Warning: extra parameter	4D09004BSD1	BD1	WQ	8260FA	PR	04/09/04	1	XYLENES
Warning: extra parameter	4D09004BSD2	BD2	WQ	8260FA	PR	04/09/04	1	DCA12D4
Warning: extra parameter	4D09004BSD2	BD2	WQ	8260FA	PR	04/09/04	1	GROC4C12

EDFQC: Error Summary Log

04/20/04

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

EDFCL: Error Summary Log

04/20/04

Error type	Clevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	//				

AB2886 Electronic Delivery

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Your EDF file has been successfully uploaded!

Confirmation Number: 3957648277

Date/Time of Submittal: 4/20/2004 2:19:47 PM

Facility Global ID: T0600100084

Facility Name: ARCO # 02162

Submittal Title: 2Q04- monitoring report for 2162

Submittal Type: GW Monitoring Report

Logged in as URSCORP-OAKLAND
(CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).

AB2886 Electronic Delivery

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UPLOADING A GEO_WELL FILE

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

Submittal Title: 2Q04- geowell data for site
2162

Submittal Date/Time: 4/7/2004 8:59:00 AM

**Confirmation
Number:** 9546859562

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(CONTRACTOR)

[CONTACT SITE ADMINISTRATOR.](#)

ATTACHMENT E
WELL SURVEY DATA

BP/ARCO Survey Sheet

Site: 2162

Date: 02/23/2004

Well ID	X-coord (NAD'83)	Y-coord (NAD'83)	Top of Casing (NAVD'88)	Top of Lid (NAVD'88)	Ground Surface (NAVD'88)	Comments
MW-1	-122.1304253	37.7002994	33.70	33.97	33.97	
MW-2	-122.1302065	37.7003044	32.97	33.31	33.31	
MW-3	-122.1301886	37.6999811	32.89	33.12	33.12	
MW-4	-122.1304691	37.6999860	33.97	34.21	34.21	
VW-1	-122.1303168	37.6999943	33.17	33.75	33.75	
VW-2	-122.1302467	37.6999902	33.05	33.37	33.37	

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