

April 9, 2004

Ms. eva chu
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: First Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #4977
2770 Castro Valley Blvd
Castro Valley, California
URS Project #38486724**

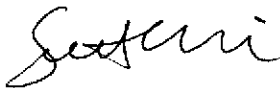
Dear Ms. chu

On behalf of Atlantic Richfield Company (ARCO – a BP affiliated company), URS Corporation (URS) is submitting the *First Quarter 2004 Groundwater Monitoring Report* for ARCO Service Station #4977, located at 2770 Castro Valley Blvd, Castro Valley, California.

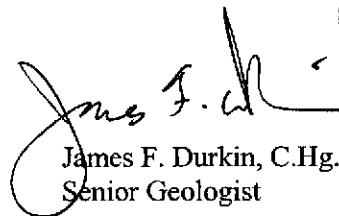
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION



Scott Robinson
Project Manager



James F. Durkin, C.Hg.
Senior Geologist



Enclosure: First Quarter 2004 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO (electronic copy uploaded to ENFOS)



Atlantic Richfield Company
(a BP affiliated company)

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

April 9, 2004

RE: First Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #4977
2770 Castro Valley Boulevard
Castro Valley, California
URS Project #38486724

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

**FIRST QUARTER 2004
GROUNDWATER MONITORING**

ARCO SERVICE STATION #4977
2770 CASTRO VALLEY BLVD
CASTRO VALLEY, CALIFORNIA

Prepared for
Atlantic Richfield Company

April 9, 2004

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486724

Date: April 9, 2004
Quarter: 1Q 04

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 4977 Address: 2770 Castro Valley Blvd, Castro Valley, CA
ARCO Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486724
Primary Agency: Alameda County Health Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (First – 2004):

1. Performed first quarter groundwater monitoring event on March 11, 2004.
2. Resurveyed wells MW-1 through MW-3 on March 23, 2004.
3. Wells MW-1 and MW-3 were repaired on January 6, 2004.

WORK PROPOSED FOR NEXT QUARTER (Second – 2004):

1. Perform second quarter groundwater monitoring event.
2. Prepare and submit first quarter 2004 groundwater monitoring report.
3. Prepare second quarter 2004 groundwater monitoring report.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: Wells MW-1 through MW-3
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 6.02 ft (MW-2) to 7.61 ft (MW-1)
Groundwater Gradient (direction): South
Groundwater Gradient (magnitude): 0.024 feet per foot

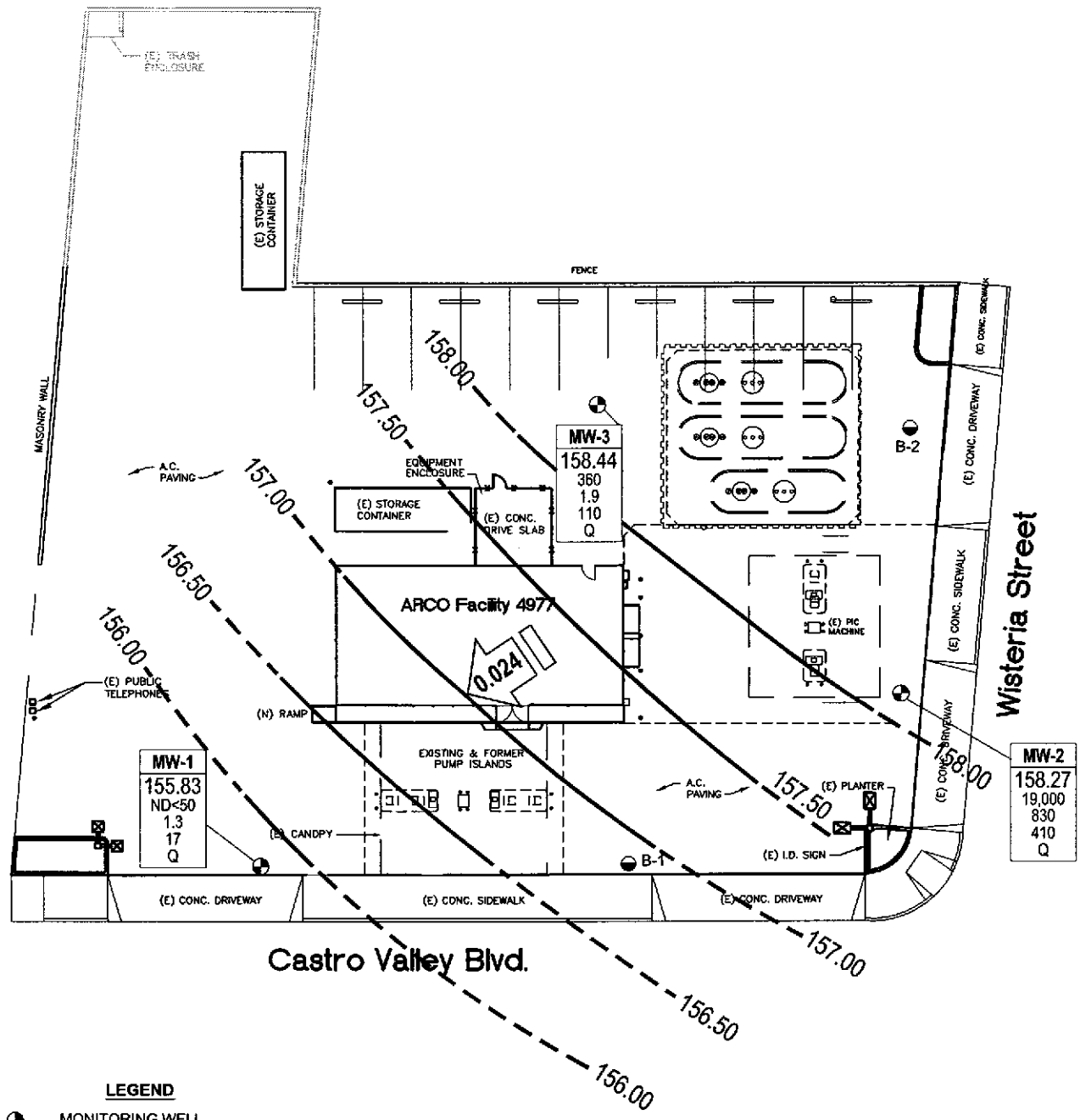
DISCUSSION:

Gasoline range organics (GRO) were detected above laboratory reporting limits in two of the three wells sampled this quarter at concentrations of 360 µg/L (MW-3) and 19,000 µg/L (MW-2). Benzene was detected above laboratory reporting limits in all three wells at concentrations ranging from 1.3 µg/L (MW-1) to 830 µg/L (MW-2). Methyl-tert-butyl ether (MTBE) was detected above laboratory reporting limits in all three wells at concentrations ranging from 17 µg/L (MW-1) to 410 µg/L (MW-2). tert-Butyl alcohol (TBA) was detected above laboratory reporting limits in one well, MW-3, at a concentration of 570 µg/L. No other fuel oxygenates were detected in any of the samples.

ATTACHMENTS:

- **Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – March 11, 2004**
- **Table 1 - Groundwater Elevation and Analytical Data**
- **Table 2 - Groundwater Flow Direction and Gradient**
- **Table 3 - Fuel Oxygenate Analytical Data**
- **Attachment A - Field Procedures and Field Data Sheets**
- **Attachment B - Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records**
- **Attachment C - EDCC Report and EDF/Geowell Submittal Confirmation**
- **Attachment D – Well Repair Data**
- **Attachment E – Well Survey Data**

Apr 05, 2004 - 10:42am X:\x_env\wa_ste\BP_GEM\Sites\Scott Robinson\Paul_Supple\4977\Monitoring\qtr. 1, 2004\GVEC-AS_3-11.dwg



- LEGEND**
- MONITORING WELL
 - SOIL BORING
- | Well | WELL DESIGNATION |
|------|--|
| ELEV | GROUNDWATER ELEVATION (FT ABOVE MSL) |
| GRO | CONCENTRATION OF GRO, BENZENE AND MTBE IN GROUNDWATER (µg/L) |
| MTBE | |
| Q | SAMPLING FREQUENCY |
- ND< NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
 - Q SAMPLED QUARTERLY
 - 156.00 — GROUNDWATER ELEVATION CONTOUR (FT ABOVE MSL)
 - GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)



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.

NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

URS	Project No. 38486724	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP First Quarter 2004 (March 11, 2004)	FIGURE 1
	Arco Service Station #4977 2770 Castro Valley Boulevard Castro Valley, California		

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #4977
2770 Castro Valley Boulevard
Castro Valley, California

Sample ID	Date	Top of Casing Elevation (ft amsl)	Depth to Top of Screen (ft, bgs)	Depth of Well/Bottom of Screen (ft, bgs)	Depth to Groundwater (ft btc)	Groundwater Elevation (ft amsl)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen ^c (mg/L)	pH ^c
MW-1	04/19/02	161.11	5.0	15.0	11.21	149.90	660	12	1.3	4.3	0.80	38	NA	NA
	09/27/02				9.29	151.82	130	7.7	0.87	5.4	0.79	39	1.7	6.9
	12/16/02 ^a				8.55	152.56	77	1.8	ND<0.50	0.69	ND<1.0	42	1.6	6.9
	03/11/03				8.07	153.04	140	9.8	ND<0.50	5.6	ND<0.50	20	1.4	7.4
	06/17/03				8.31	152.80	510	60	1.4	81	ND<1.0	23	2.2	7.0
	09/18/03 ^b				9.45	151.66	72	2.4	1.4	1.6	1.5	39	2.7	7.0
	12/11/03				8.80	152.31	79	1.5	ND<0.50	1.5	4.4	48	2.1	7.0
	3/11/2004 ^d	163.44			7.61	155.83	ND<50	1.3	ND<0.50	0.77	1.3	17	1.4	6.8
MW-2	04/19/02	161.87	5.0	15.0	6.59	155.28	28,000	970	120	860	6,900	760	NA	NA
	09/27/02				7.18	154.69	17,000	1,400	ND<50	1,200	3,700	1,400	1.5	6.8
	12/16/02 ^a				7.31	154.56	17,000	1,000	ND<50	980	3,300	980	1.9	6.8
	03/11/03				6.02	155.85	24,000	1,600	70	1,300	4,300	920	1.7	7.4
	06/17/03				6.31	155.56	28,000	1,300	55	1,300	4,500	610	1.4	6.9
	09/18/03				7.61	154.26	19,000	960	63	1,100	3,100	580	2.7	6.8
	12/11/03				6.50	155.37	29,000	710	53	1,300	3,800	490	2.0	7.0
	3/11/2004 ^d	164.29			6.02	158.27	19,000	830	49	1,500	4,000	410	0.8	6.5
MW-3	04/19/02	162.14	5.0	15.0	6.94	155.20	1,200	29	1.1	43	62	1,700	NA	NA
	09/27/02				8.26	153.88	740	7.8	ND<2.5	6.8	4.4	1,100	1.0	6.7
	12/16/02 ^a				6.76	155.38	1,200	13	ND<10	170	88	910	2.3	6.8
	03/11/03				6.92	155.22	ND<2,500	ND<25	ND<25	ND<25	ND<25	470	1.7	7.5
	06/17/03				7.44	154.70	ND<1,000	ND<10	ND<10	14	ND<10	530	1.9	7.0
	09/18/03				8.43	153.71	470	4.8	ND<2.5	10	9.2	300	2.9	6.8
	12/11/03				6.72	155.42	ND<500	ND<5.0	ND<5.0	7.0	13	180	1.9	6.9
	3/11/2004 ^d	164.53			6.09	158.44	360	1.9	ND<1.0	5.6	5.0	110	2.6	6.8

Notes:

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.

amsl = above mean sea level

bgs = below ground surface

btc = below top of casing

ft = feet

GRO = Gasoline Range Organics C6 - C10 Range

mg/L = milligrams per liter

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted. (before 12/16/02)

ND< = Not detected at or above laboratory reporting limits

TPH-g = Total petroleum hydrocarbons in the gasoline range (C5-C9).

µg/L = micrograms per liter

a = TPH, BTEX, and MTBE analyzed by EPA Method 8260B beginning on 4th Quarter Sampling event (12/16/02)

b = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose.

c = Dissolved oxygen and pH are field measurements.

d = Wells re-survey on 03/23/04

Source: The data within this table collected prior to September 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 #4977
2770 Castro Valley Boulevard
Castro Valley, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
04/19/02	Southwest	0.038
09/27/02	Southwest	0.021
12/16/02	Southeast	0.029
03/11/03	South	0.024
06/17/03	South-Southwest	0.022
09/18/03	South-Southwest	0.022
12/11/03	South-Southwest	0.024
03/11/04	South-Southwest	0.024

Source : The data within this table collected prior to September 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 #4977
2770 Castro Valley Boulevard
Castro Valley, 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	12/16/02	ND<50	ND<5.0	42	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	03/11/03	ND<100	ND<20	20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	06/17/03	ND<200	ND<40	23	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	09/18/03 ^a	ND<100	ND<20	39	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/11/03	ND<100	ND<20	48	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	03/11/04	ND<100	ND<20	17	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2	12/16/02	ND<5,000	ND<500	980	ND<50	ND<50	ND<50	ND<50	ND<50
	03/11/03	ND<10,000	ND<2,000	920	ND<50	ND<50	ND<50	ND<50	ND<50
	06/17/03	ND<10,000	ND<2,000	610	ND<50	ND<50	ND<50	ND<50	ND<50
	09/18/03	ND<5,000	ND<1,000	580	ND<25	ND<25	ND<25	ND<25	ND<25
	12/11/03	ND<5,000	ND<1,000	490	ND<25	ND<25	ND<25	ND<25	ND<25
	03/11/04	ND<2,000	ND<400	410	ND<10	ND<10	ND<10	ND<10	ND<10
MW-3	12/16/02	ND<1,000	ND<100	910	ND<10	ND<10	12	ND<10	ND<10
	03/11/03	ND<5,000	ND<1,000	470	ND<25	ND<25	ND<25	ND<25	ND<25
	06/17/03	ND<2,000	ND<400	530	ND<10	ND<10	ND<10	ND<10	ND<10
	09/18/03	ND<500	ND<100	300	ND<2.5	ND<2.5	3.2	ND<2.5	ND<2.5
	12/11/03	ND<1,000	ND<200	180	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	03/11/04	ND<200	570	110	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Note = All fuel oxygenate compounds analyzed using EPA Method 8260B
1,2-DCE = 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 laboratory reporting limit
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
µg/L = micrograms per liter

a = This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose. For more details see Attachment B.

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 #: 640311-DAY	Station # 4977
Sampler: OA	Date: 3/11/04
Well I.D.: MW-1	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 14.98	Depth to Water: 7.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): VST <u>HACH</u>

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: <u>Bailer</u> Disposable Bailer Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> 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>4.8</u>	x	<u>3</u>	=	<u>14.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1324	71.9	6.7	1331	5	clear
1325	70.1	6.7	1330	10	"
1328	69.9	6.8	1346	15	tan, turbid

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>15</u>
Sampling Time: <u>1331</u>	Sampling Date: <u>3/11/04</u>
Sample I.D.: <u>MW-1</u>	Laboratory: Pace <u>sequoia</u> Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See COC</u>	

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040311-DA4	Station # 4977
Sampler: OA	Date: 3/11/04
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 14.76	Depth to Water: 6.02
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI (HACH)

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

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

5.7	x	3	=	17.1	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or (S))	Gals. Removed	Observations
1306	76.1	6.5	853	6	clear, slight odor (gas)
1307	71.3	6.5	891	12	"
1308	71.0	6.5	897	17.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 17.5

Sampling Time: 1313 Sampling Date: 3/11/04

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see col

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.8 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 640311-DA4	Station # 4977
Sampler: OA	Date: 3/11/04
Well I.D.: MW-3	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 15.03	Depth to Water: 6.09
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>AVD</u> Grade	D.O. Meter (if req'd): YSI <u>HAACH</u>

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

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

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

<u>5.8</u>	x	<u>3</u>	=	<u>17.4</u> Gals.
I Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1339	68.5	6.8	943	6	cloudy, slight odor
1341	67.8	6.8	929	12	"
1342	67.4	6.8	918	17.5	fan, turbid

Did well dewater? Yes <input checked="" type="checkbox"/> <u>No</u>	Gallons actually evacuated: 17.5
Sampling Time: 1345	Sampling Date: 3/11/04
Sample I.D.: MW-3	Laboratory: Pace <u>Sequon</u> Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>see coc</u>	

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.6 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:

4977

Station #

2770 Castro Valley Blvd. Castro

Station Address

Valley

Total Gallons Collected From Groundwater Monitoring Wells:

50

added equip.

rinse water 3

any other

adjustments _____

TOTAL GALS.

RECOVERED 53

loaded onto

BTS vehicle # 49

BTS event #

040311-DA4

time

1355

date

3/11/04

signature

David Attkent

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.



**Sequoia
Analytical**

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

25 March, 2004

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

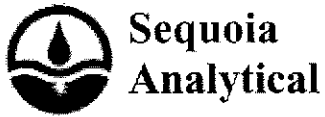
RE: ARCO #4977, Castro Valley, CA
Work Order: MNC0357

Enclosed are the results of analyses for samples received by the laboratory on 03/12/04 13:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210



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

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

Project: ARCO #4977, Castro Valley, CA
Project Number: INTRIM-50467
Project Manager: Scott Robinson

MNC0357
Reported:
03/25/04 14:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-4977-031104	MNC0357-01	Water	03/11/04 00:00	03/12/04 13:10
MW-1	MNC0357-02	Water	03/11/04 13:31	03/12/04 13:10
MW-2	MNC0357-03	Water	03/11/04 13:13	03/12/04 13:10
MW-3	MNC0357-04	Water	03/11/04 13:45	03/12/04 13:10

These samples were received with intact custody seals.

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

 Project: ARCO #4977, Castro Valley, CA
 Project Number: INTRIM-50467
 Project Manager: Scott Robinson

 MNC0357
 Reported:
 03/25/04 14:50

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MNC0357-02) Water Sampled: 03/11/04 13:31 Received: 03/12/04 13:10									
Ethanol	ND	100	ug/l	1	4C22001	03/22/04	03/23/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	17	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	1.3	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	0.77	0.50	"	"	"	"	"	"	
Xylenes (total)	1.3	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>111 %</i>	<i>78-129</i>						
MW-2 (MNC0357-03) Water Sampled: 03/11/04 13:13 Received: 03/12/04 13:10									
Ethanol	ND	2000	ug/l	20	4C22001	03/22/04	03/23/04	EPA 8260B	
tert-Butyl alcohol	ND	400	"	"	"	"	"	"	
Methyl tert-butyl ether	410	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
Benzene	830	10	"	"	"	"	"	"	
Toluene	49	10	"	"	"	"	"	"	
Ethylbenzene	1500	10	"	"	"	"	"	"	
Xylenes (total)	4000	10	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	19000	1000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>108 %</i>	<i>78-129</i>						



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

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

Project: ARCO #4977, Castro Valley, CA
 Project Number: INTRIM-50467
 Project Manager: Scott Robinson

MNC0357
 Reported:
 03/25/04 14:50

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MNC0357-04) Water Sampled: 03/11/04 13:45 Received: 03/12/04 13:10									
Ethanol	ND	200	ug/l	2	4C22001	03/22/04	03/23/04	EPA 8260B	
tert-Butyl alcohol	570	40	"	"	"	"	"	"	
Methyl tert-butyl ether	110	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Benzene	1.9	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	5.6	1.0	"	"	"	"	"	"	
Xylenes (total)	5.0	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	360	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		78-129	"	"	"	"	



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URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #4977, Castro Valley, CA Project Number: INTRIM-50467 Project Manager: Scott Robinson	MNC0357 Reported: 03/25/04 14:50
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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
Batch 4C22001 - EPA 5030B P/T										
Blank (4C22001-BLK1) Prepared & Analyzed: 03/22/04										
Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.69		"	5.00		114	78-129			
Laboratory Control Sample (4C22001-BS1) Prepared & Analyzed: 03/22/04										
Ethanol	206	100	ug/l	200		103	31-143			
tert-Butyl alcohol	48.4	20	"	50.0		96.8	56-131			
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	63-137			
Di-isopropyl ether	8.11	0.50	"	10.0		81.1	76-130			
Ethyl tert-butyl ether	9.85	0.50	"	10.0		98.5	81-121			
tert-Amyl methyl ether	9.41	0.50	"	10.0		94.1	82-140			
1,2-Dichloroethane	10.8	0.50	"	10.0		108	77-136			
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0		107	77-132			
Benzene	8.83	0.50	"	10.0		88.3	69-124			
Toluene	9.38	0.50	"	10.0		93.8	78-129			
Ethylbenzene	9.58	0.50	"	10.0		95.8	84-132			
Xylenes (total)	28.6	0.50	"	30.0		95.3	83-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.31		"	5.00		106	78-129			

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.

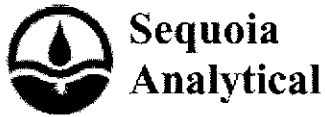
URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project: ARCO #4977, Castro Valley, CA
 Project Number: INTRIM-50467
 Project Manager: Scott Robinson

 MNC0357
 Reported:
 03/25/04 14:50

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4C22001 - EPA 5030B P/T									
Laboratory Control Sample (4C22001-BS2)					Prepared & Analyzed: 03/22/04				
Gasoline Range Organics (C6-C10)	319	50	ug/l	440		72.5 70-124			
Surrogate: 1,2-Dichloroethane-d4	5.34		"	5.00		107 78-129			
Laboratory Control Sample Dup (4C22001-BSD1)					Prepared & Analyzed: 03/22/04				
Ethanol	211	100	ug/l	200	106	31-143	2.40	20	
tert-Butyl alcohol	45.5	20	"	50.0	91.0	56-131	6.18	20	
Methyl tert-butyl ether	10.2	0.50	"	10.0	102	63-137	0.00	20	
Di-isopropyl ether	8.22	0.50	"	10.0	82.2	76-130	1.35	20	
Ethyl tert-butyl ether	9.80	0.50	"	10.0	98.0	81-121	0.509	20	
tert-Amyl methyl ether	10.1	0.50	"	10.0	101	82-140	7.07	20	
1,2-Dichloroethane	11.2	0.50	"	10.0	112	77-136	3.64	20	
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0	112	77-132	4.57	20	
Benzene	8.97	0.50	"	10.0	89.7	69-124	1.57	20	
Toluene	9.73	0.50	"	10.0	97.3	78-129	3.66	20	
Ethylbenzene	9.83	0.50	"	10.0	98.3	84-132	2.58	20	
Xylenes (total)	29.7	0.50	"	30.0	99.0	83-137	3.77	20	
Surrogate: 1,2-Dichloroethane-d4	5.31		"	5.00	106	78-129			
Laboratory Control Sample Dup (4C22001-BSD2)					Prepared & Analyzed: 03/22/04				
Gasoline Range Organics (C6-C10)	338	50	ug/l	440		76.8 70-124	5.78	20	
Surrogate: 1,2-Dichloroethane-d4	5.36		"	5.00		107 78-129			
Matrix Spike (4C22001-MS1)					Source: MNC0535-09		Prepared: 03/22/04 Analyzed: 03/23/04		
Methyl tert-butyl ether	970	10	ug/l	202	770	99.0 63-137			
Benzene	96.0	10	"	130	5.6	69.5 69-124			
Toluene	628	10	"	594	ND	106 78-129			
Ethylbenzene	148	10	"	144	ND	103 84-132			
Xylenes (total)	748	10	"	674	ND	111 83-137			
Gasoline Range Organics (C6-C10)	7200	1000	"	8800	1300	67.0 70-124			QM02
Surrogate: 1,2-Dichloroethane-d4	5.21		"	5.00		104 78-129			



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Project: ARCO #4977, Castro Valley, CA
 Project Number: INTRIM-50467
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MNC0357
 Reported:
 03/25/04 14:50

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 4C22001 - EPA 5030B P/T										
Matrix Spike Dup (4C22001-MSD1)	Source: MNC0535-09			Prepared: 03/22/04		Analyzed: 03/23/04				
Methyl tert-butyl ether	968	10	ug/l	202	770	98.0	63-137	0.206	20	
Benzene	100	10	"	130	5.6	72.6	69-124	4.08	20	
Toluene	660	10	"	594	ND	111	78-129	4.97	20	
Ethylbenzene	155	10	"	144	ND	108	84-132	4.62	20	
Xylenes (total)	789	10	"	674	ND	117	83-137	5.34	20	
Gasoline Range Organics (C6-C10)	7600	1000	"	8800	1300	71.6	70-124	5.41	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.33		"	5.00		107	78-129			



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Reported:
03/25/04 14:50

Notes and Definitions

- QM02 The spike recovery was below control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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 4977GWM
 BP BU/GEM CO Portfolio Retail

MNC0357

BP Laboratory Contract Number: Atlantic Richfield Company

Requested Due Date (mm/dd/yy) 14 day TAT

Date: 3/11/04

On-site Time: <u>1245</u>	Temp: <u>79.1</u>
Off-site Time: <u>1215</u>	Temp: <u>78.3</u>
Sky Conditions: <u>clear</u>	
Meteorological Events: <u>-</u>	
Wind Speed: <u>5 mph</u>	Direction: <u>N</u>

Send To:	BP/GEM Facility No.: <u>ARCO 4977</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>2770 Castro Valley Rd, Castro Valley, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 4977</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.cosper@URSCorp.com</u>
	California Global ID #:	Consultant/Contractor Project No.: <u>J5-00004977.01 00427</u>
Lab PM <u>Lisa Race</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>I Send EDF Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
BP/GEM Account No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50467</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	TPH-G/BTEX (\$8015/\$8021) (\$260)	TPH-D (8015)	MTBE (8021)	MIBE (\$260)	MTBE, TAME, ETBE DPE, TBA (\$260)	1,2-DCA & EDB (\$260)	Ethanol (\$260)	
1	<u>IB-4977-031104</u>	<u>-</u>		<u>*</u>			<u>01</u>	<u>2</u>											<u>on hold</u>	
2	<u>MW-1</u>	<u>1331</u>		<u>↓</u>			<u>02</u>	<u>3</u>												
3	<u>MW-2</u>	<u>1313</u>		<u>↓</u>			<u>03</u>													
4	<u>MW-3</u>	<u>1345</u>		<u>↓</u>			<u>04</u>													
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>David Allbut</u>	Relinquished By / Affiliation: <u>David Allbut / BTS</u>	Date: <u>3/12/04</u>	Time: <u>1125</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>3/12/04</u>	Time: <u>1310</u>
Sampler's Company: <u>Blaine Tech</u>						
Shipment Date:						
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 4 °F Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: <u>BP/URS</u>	DATE REC'D AT LAB: <u>3/12/04</u>	DRINKING WATER for regulatory purposes: YES/NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
REC. BY (PRINT) <u>NW</u>	TIME REC'D AT LAB: <u>1310</u>	WASTE WATER for regulatory purposes: YES/NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
WORKORDER: <u>MNC 0357</u>	DATE LOGGED IN: <u>3-15-04</u>	

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="radio"/> Present <input type="radio"/> Absent <input type="radio"/> Intact / Broken*			TB-4977-03104	(2) NOAS	—	C	3/11/04	
2. Chain-of-Custody <input checked="" type="radio"/> Present <input type="radio"/> Absent*			MW-1	(3)	HCL			
3. Traffic Reports or Packing List: <input type="radio"/> Present <input checked="" type="radio"/> Absent			-2					
4. Airbill: <input type="radio"/> Airbill / Sticker <input checked="" type="radio"/> Present <input type="radio"/> Absent			-3					
5. Airbill #:								
6. Sample Labels: <input checked="" type="radio"/> Present / Absent								
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed or Chain-of-Custody								
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*								
10. Sample received within hold time: <input checked="" type="radio"/> Yes / No*								
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / No*								
12. Proper Preservatives used: <input checked="" type="radio"/> Yes / No*								
13. Temp Rec. at Lab: <u>4c</u> Is temp 4 +/-2°C? <input checked="" type="radio"/> Yes / No**								

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

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

ATTACHMENT C

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

03/29/04

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #4977, Castro Valley
Work Order Number:	MNC0357
Global ID:	T0600100089
Lab Report Number:	MNC0357032520041450

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MNC0357032520 041450	MW-1	MNC035702	W	CS	8260TPH	SW5030B	03/11/04	03/22/04	03/23/04	4C22001	1
MNC0357032520 041450	MW-2	MNC035703	W	CS	8260TPH	SW5030B	03/11/04	03/22/04	03/23/04	4C22001	1
MNC0357032520 041450	MW-3	MNC035704	W	CS	8260TPH	SW5030B	03/11/04	03/22/04	03/23/04	4C22001	1
		MNC053509	W	NC	8260TPH	SW5030B	//	03/22/04	03/23/04	4C22001	1
		4C22001BSD1	WQ	BD1	8260TPH	SW5030B	//	03/22/04	03/22/04	4C22001	1
		4C22001BSD2	WQ	BD2	8260TPH	SW5030B	//	03/22/04	03/22/04	4C22001	1
		4C22001BS1	WQ	BS1	8260TPH	SW5030B	//	03/22/04	03/22/04	4C22001	1
		4C22001BS2	WQ	BS2	8260TPH	SW5030B	//	03/22/04	03/22/04	4C22001	1
		4C22001BLK1	WQ	LB1	8260TPH	SW5030B	//	03/22/04	03/22/04	4C22001	1
		4C22001MS1	W	MS1	8260TPH	SW5030B	//	03/22/04	03/23/04	4C22001	1
		4C22001MSD1	W	SD1	8260TPH	SW5030B	//	03/22/04	03/23/04	4C22001	1

EDFSAMP: Error Summary Log

03/29/04

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

EDFTEST: Error Summary Log

03/29/04

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

EDFRES: Error Summary Log

03/29/04

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

EDFQC: Error Summary Log

03/29/04

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

EDFCL: Error Summary Log

03/29/04

Error type	Clevdate	Anmcode	Exmcode	Parlabel	Cicode
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: 2324113249

Date/Time of Submittal: 3/29/2004 9:25:59 AM

Facility Global ID: T0600100089

Facility Name: ARCO

Submittal Title: 1Q04-monitoring report for site 4977

Submittal Type: GW Monitoring Report

Logged in as URSCORP-OAKLAND
(CONTRACTOR)

[CONTACT SITE ADMINISTRATOR.](#)

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

UPLOADING A GEO_WELL FILE

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

Submittal Title: 1Q04- geowell data for site
4977

Submittal Date/Time: 3/25/2004 1:02:23 PM

**Confirmation
Number:** 8379444718

[Back to Main Menu](#)

Logged in as URSCORP-OAKLAND
(CONTRACTOR)

[CONTACT SITE ADMINISTRATOR.](#)

ATTACHMENT D
WELL REPAIR DATA

REPAIR DATA SHEET

Client BP/Arco # 4977 Date 1/6/04
Site Address 2770 Castro Valley, ^{Bldg} Castro Valley
Job Number 040106-MG3 Technician MB

Repair Location MW-1
Deficiencies Corrected Tabr stripped.
Helicoiled 2 tabs + added
2 new bolts.

Materials Used 2 helicoils, 2 bolts

Repair Location MW-3
Deficiencies Corrected Tabr stripped,
no bolts. Helicoiled 2
tabs + added 2 new
bolts.

Materials Used 2 helicoils, 2 bolts

Repair Location _____
Deficiencies Corrected _____

Materials Used _____

Repair Location _____
Deficiencies Corrected _____

Materials Used _____

Repair Location _____
Deficiencies Corrected _____

Materials Used _____

Repair Location _____
Deficiencies Corrected _____

Materials Used _____

ATTACHMENT E
WELL SURVEY DATA

BP/ARCO Survey Sheet
ARCO Service Station
2770 Castro Valley Boulevard
Castro Valley, CA

Site: 4977
Date: 3/23/2004

Well ID	X-coord (NAV'83)	Y-coord (NAV'83)	Top of Casing (NAVD'88)	Top of Lid (NAVD'88)	Ground Surface (NAVD'88)	Comments
WW-1	-122.0853845	37.6947963	163.44	163.99	163.99	
WW-2	-122.0850336	37.6949823	164.29	164.54	164.54	
WW-3	-122.0852758	37.6950628	164.53	164.99	164.99	