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Atlantic Richfield Company
(a BP affiliated company)

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Alameda County
DEC 23 2003
Environmental Health

December 17, 2003

RE: Fourth Quarter 2003 Groundwater Monitoring Report
ARCO Service Station #0276
10600 MacArthur Blvd.
Oakland, CA
URS Project# 38486308

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



December 17, 2003

Mr. Don Hwang
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Second Floor, Suite 250
Alameda, CA 94502

**Re: Fourth Quarter 2003 Groundwater Monitoring Report
ARCO Service Station #0276
10600 MacArthur Boulevard
Oakland, California
URS Project #38486308**

Dear Mr. Hwang:

On behalf of Atlantic Richfield Company (ARCO – a BP affiliated company), URS Corporation (URS) is submitting the *Fourth Quarter 2003 Groundwater Monitoring Report* for ARCO Service Station #0276, located at 10600 MacArthur Boulevard, Oakland, California.

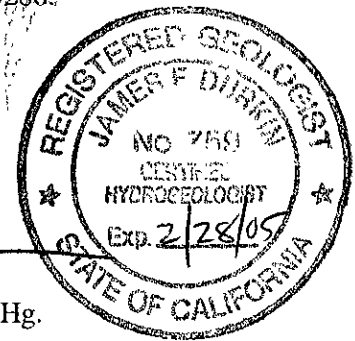
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

James F. Durkin, C.Hg.
Senior Geologist



Enclosure: Fourth Quarter 2003 Groundwater Monitoring Report

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

R E P O R T

**FOURTH QUARTER 2003
GROUNDWATER MONITORING**

ARCO SERVICE STATION #0276
10600 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Prepared for
Atlantic Richfield Company

December 17, 2003

URS

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

38486308

Date: December 17, 2003
Quarter: 4Q 03

ATLANTIC RICHFIELD COMPANY ANNUAL GROUNDWATER MONITORING REPORT

Facility No.: 0276 Address: 10600 MacArthur Boulevard, Oakland, California
Atlantic Richfield Co. Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486308
Primary Agency: Alameda County Health Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (Fourth -- 2003):

1. Performed fourth quarter 2003 groundwater monitoring event on November 7, 2003.
2. Prepared fourth quarter 2003 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (First -- 2004):

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

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: Wells MW-1 through MW-8, RW-1 and WGR-3..
Frequency of Groundwater: Annual changed to quarterly starting from third quarter 2003
Is Free Product (FP) Present On-Site: Sheen: MW-7
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 18.22 (MW-2) to 35.70 (MW-6) feet
Groundwater Gradient (direction): Southwest
Groundwater Gradient (magnitude): 0.0035 feet per foot

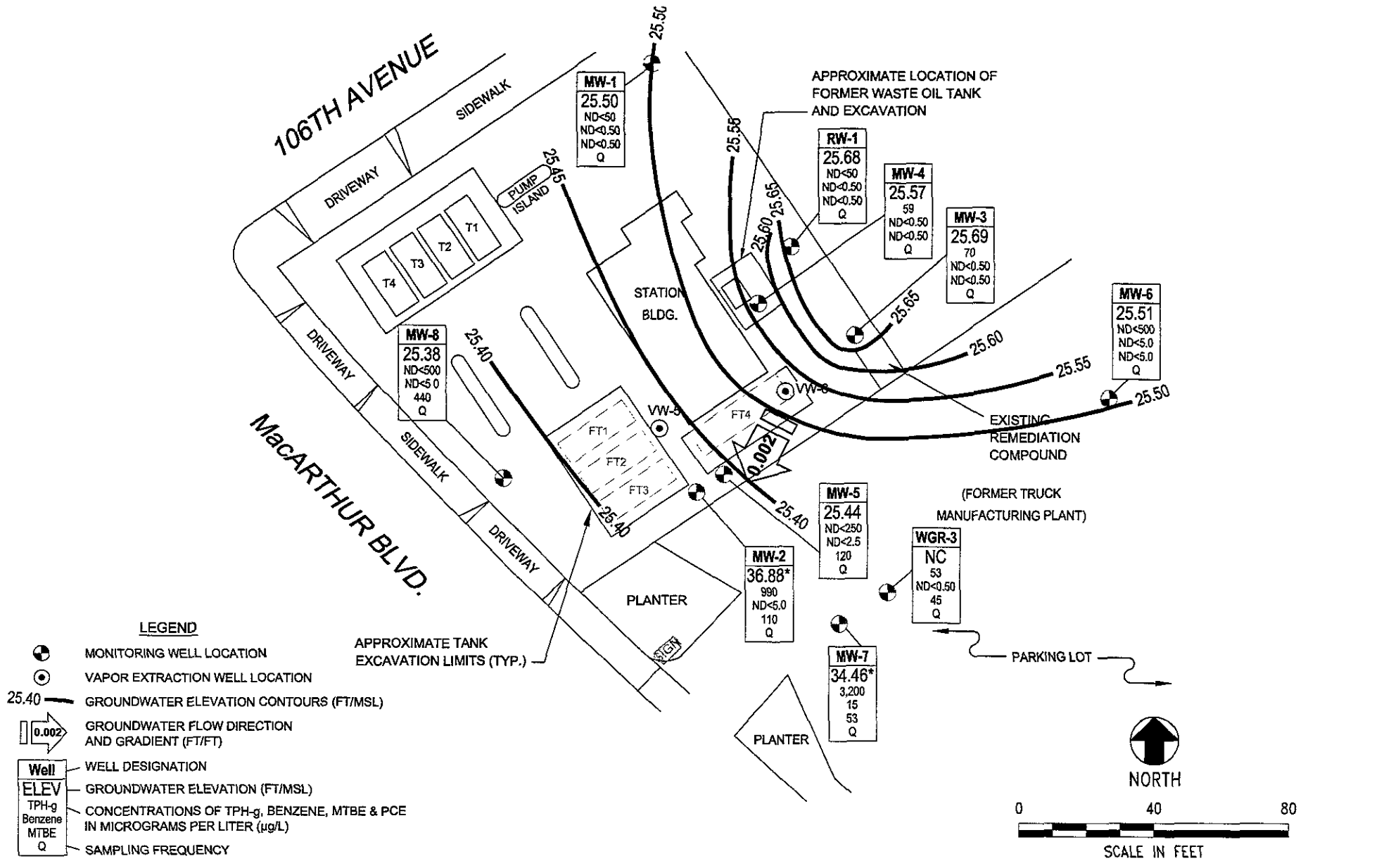
DISCUSSION:

This site was previously sampled on an annual basis for PCE only. However, due to a recent new release discovered during line up-grade work, this Site is being monitored quarterly since September 2003 (3Q 2003) for TPH-g, BTEX, fuel oxygenates, 1,2-DCA, and EDB.

During this quarter, all groundwater samples were analyzed by EPA method 8260B for TPH-g, BTEX, fuel oxygenates, Ethanol, and PCE. TPH-g was detected above the laboratory reporting limit in five of the ten wells sampled at concentrations ranging from 53 µg/L (WGR-3) to 3,200 µg/L (MW-7). Benzene, was only detected above the laboratory reporting limit in well MW-7 at concentrations of 15µg/L. MTBE and TAME were detected above the laboratory reporting limit in wells MW-2, MW-5, MW-7, MW-8 and WGR-3. MTBE was detected at concentrations ranging from 45 µg/L (WGR-3) to 440 µg/L (MW-8). TAME was detected above the laboratory reporting limit at concentrations ranging from 6.6 µg/L (MW-5) to 28 µg/L (MW-2). PCE was detected in six wells at concentrations ranging from of 3.0 µg/L (MW-1) to 560 µg/L (MW-6).

ATTACHMENTS:

- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – November 7, 2003
- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Fuel Oxygenates 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



LEGEND

- MONITORING WELL LOCATION
- VAPOR EXTRACTION WELL LOCATION
- GROUNDWATER ELEVATION CONTOURS (FT/MSL)
- GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
- Well** WELL DESIGNATION
- ELEV** GROUNDWATER ELEVATION (FT/MSL)
- TPH-g** CONCENTRATIONS OF TPH-g, BENZENE, MTBE & PCE IN MICROGRAMS PER LITER (µg/L)
- Benzene**
- MTBE**
- Q** SAMPLING FREQUENCY
- * NOT USED IN GROUNDWATER CONTOURS
- NC NOT CALCULATED
- NS NOT SAMPLED
- ND< NOT DETECTED
- Q SAMPLED QUARTERLY

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

URS	Project No. 38486308	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Fourth Quarter 2003 (November 7, 2003)	FIGURE 1
	ARCO Service Station 0276 10600 MacArthur Boulevard Oakland, California		

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #0276
10600 MacArthur Boulevard
Oakland, California

Well Number	Date Sampled	Well Elevation (ft.-MSL)	Top of Screen (ft., MSL)	Depth of Well (ft., BGS)	Depth to Water (ft., TOC)	Groundwater Elevation (ft.-MSL)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO ^d (mg/L)	pH ^d	
MW-1	12/17/00	55.92	36.92	38.80	29.16	26.76	5.09	ND	ND	ND	NA	NA	NA	NA	
	12/28/01				27.38	28.54	8.8	ND	ND	ND	NA	NA	NA	NA	
	11/27/02				NP	29.45	26.47	4.2	NA	NA	NA	NA	NA	2.3	6.7
	07/22/03				NP	27.58	28.34	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.1	6.7
	11/07/03				NP	30.42	25.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.1	6.6
MW-2	12/17/00	55.10	40.10	27.60	15.72	39.38	NS	NS	NS	NS	NS	NS	NS	NS	
	12/28/01				27.38	27.72	NS	NS	NS	NS	NS	NS	NS	NS	
	11/27/02				16.35	38.75	NS	NS	NS	NS	NS	NS	NS	NS	
	07/22/03				16.20	38.90	NS	NS	NS	NS	NS	NS	NS	NS	
	11/07/03				P	18.22	36.88	990	ND<5.0	ND<5.0	ND<5.0	ND<5.0	110	1.8	6.7
MW-3	12/17/00	56.55	34.55	38.60	29.78	26.77	158	ND	ND	ND	NA	NA	NA	NA	
	12/28/01				27.95	28.60	310	20	1.5	13	NA	NA	NA	NA	
	11/27/02				NP	30.10	26.45	110	NA	NA	NA	NA	NA	2.0	7.2
	07/22/03				NP	28.32	28.23	120	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.2	5.9
	11/07/03				NP	30.86	25.69	70	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.8	6.5
MW-4	12/17/00	55.98	30.98	48.30	29.22	26.76	225	ND	ND	ND	NA	NA	NA	NA	
	12/28/01				27.37	28.61	160	1.2	ND	ND	NA	NA	NA	NA	
	11/27/02				NP	29.55	26.43	95	NA	NA	NA	NA	NA	3.7	6.7
	07/22/03				NP	27.73	28.25	130	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.9	6.6
	11/07/03				NP	30.41	25.57	59	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.6	6.5
MW-5	12/17/00	55.43	23.23	47.00	28.82	26.61	1,040	ND	ND	ND	NA	NA	NA	NA	
	12/28/01				26.91	28.52	3,200	190	36	140	1.9 ^a , 3.2 ^b , 2.0 ^c	NA	NA	NA	NA
	11/27/02				P	29.15	26.28	110	NA	NA	NA	NA	NA	1.4	6.4
	07/22/03				P	27.43	28.00	160	ND<1.0	ND<1.0	ND<1.0	ND<1.0	110	1.5	6.6
	11/07/03				P	29.99	25.44	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	120	0.6	6.2
MW-6	12/17/00	61.21	24.21	54.10	34.61	26.60	NS	NS	NS	NS	NS	NS	NS	NS	
	12/28/01				32.80	28.41	NS	NS	NS	NS	NS	NS	NS	NS	
	11/27/02				35.00	26.21	NS	NS	NS	NS	NS	NS	NS	NS	
	07/22/03				33.17	28.04	NS	NS	NS	NS	NS	NS	NS	NS	
	11/7/2003 ^{e,f}				P	35.70	25.51	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.7	6.9

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station #0276
10600 MacArthur Boulevard
Oakland, California

Well Number	Date Sampled	Well Elevation (ft.-MSL)	Top of Screen (ft., MSL)	Depth of Well (ft., BGS)	Depth to Water (ft., TOC)	Groundwater Elevation (ft.-MSL)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO ^d (mg/L)	pH ^d	
MW-7	12/17/00	58.22	40.72	55.00	19.94	38.28	NS	NS	NS	NS	NS	NS	NS	NS	
	12/28/01				17.29	40.93	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/27/02				21.30	36.92	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/22/03				21.36	36.86	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/7/2003 ^e				P	23.76	34.46	3200	15	ND<2.5	130	11	53	2.2	6.8
MW-8	12/17/00	53.65	24.65	47.70	27.02	26.63	NS	NS	NS	NS	NS	NS	NS	NS	
	12/28/01				24.99	28.66	NS	NS	NS	NS	NS	NS	NS	NS	
	11/27/02				27.45	26.20	NS	NS	NS	NS	NS	NS	NS	NS	
	07/22/03				25.74	27.91	NS	NS	NS	NS	NS	NS	NS	NS	
	11/07/03				P	28.27	25.38	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	440	2.6	6.5
RW-1	12/17/00	56.32		48.90	29.57	26.75	NS	NS	NS	NS	NS	NS	NS	NS	
	12/28/01				27.64	28.68	NS	NS	NS	NS	NS	NS	NS	NS	
	11/27/02				29.93	26.39	NS	NS	NS	NS	NS	NS	NS	NS	
	07/22/03				28.09	28.23	NS	NS	NS	NS	NS	NS	NS	NS	
	11/07/03				P	30.64	25.68	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.1	7.0
WGR-3	12/17/00	NR	22.00	27.50	19.21	NR	NS	NS	NS	NS	NS	NS	NS	NS	
	12/28/01	NR			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
	11/27/02	NR			20.60	NR	NS	NS	NS	NS	NS	NS	NS	NS	
	07/22/03	NR			20.77	NR	NS	NS	NS	NS	NS	NS	NS	NS	
	11/07/03	P			NR	23.11	NR	53	ND<0.50	ND<0.50	ND<0.50	ND<0.50	45	0.9	6.4

Note

- TOC = Top of Casing
- ft.-MSL = Elevation in feet, relative to mean sea level
- µg/L = Micrograms per liter
- ND< = None detected
- NR = Not reported; data not available or not measurable
- NS = Not sampled
- P = Purged
- NP = Not purged
- mg/L = Milligrams per liter
- a = 1,1 DCE
- b = 1,2 DCA
- c = Chlorobenzene
- d = pH and DO levels are field measurements
- e = 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.
- f = The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits

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

Table 2
Fuel Oxygenates Analytical Data

ARCO Service Station #0276
10600 MacArthur Boulevard
Oakland, California

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	PCE (µg/L)	TCE (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	VOCs (µg/L)
MW-1	12/17/00	NA	NA	NA	NA	NA	NA	5.09	ND	NA	NA	ND	ND	NA
	12/28/01	NA	NA	NA	NA	NA	NA	8.8	ND	NA	NA	ND	ND	NA
	11/27/02	NA	NA	NA	NA	NA	NA	4.2	NA	NA	NA	NA	NA	NA
	07/22/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.0	NA	ND<0.50	ND<0.50	NA	NA	NA
	11/07/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.0	NA	NA	NA	NA	NA	NA
MW-2	11/07/03	ND<1000	ND<200	110	ND<5.0	ND<5.0	28	ND<5.0	NA	NA	NA	NA	NA	NA
MW-3	12/17/00	NA	NA	NA	NA	NA	NA	158	ND	NA	NA	ND	ND	NA
	12/28/01	NA	NA	NA	NA	NA	NA	310	20	NA	NA	1.5	13	NA
	11/27/02	NA	NA	NA	NA	NA	NA	110	NA	NA	NA	NA	NA	NA
	07/22/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	80	NA	ND<0.50	ND<0.50	NA	NA	NA
	11/07/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	80	NA	NA	NA	NA	NA	NA
MW-4	12/17/00	NA	NA	NA	NA	NA	NA	225	ND	NA	NA	ND	ND	NA
	12/28/01	NA	NA	NA	NA	NA	NA	160	1.2	NA	NA	ND	ND	NA
	11/27/02	NA	NA	NA	NA	NA	NA	95	NA	NA	NA	NA	NA	NA
	07/22/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	94	NA	ND<0.50	ND<0.50	NA	NA	NA
	11/07/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	68	NA	NA	NA	NA	NA	NA
MW-5	12/17/00	NA	NA	NA	NA	NA	NA	1,040	ND	NA	NA	ND	ND	NA
	12/28/01	NA	NA	NA	NA	NA	NA	3,200	190	NA	NA	36	140	1.9 ^a , 3.2 ^b , 2.0 ^c
	11/27/02	NA	NA	NA	NA	NA	NA	110	NA	NA	NA	NA	NA	NA
	07/22/03	ND<200	ND<40	110	1.4	ND<1.0	3.2	55	NA	12	ND<1.0	NA	NA	NA
	11/07/03	ND<500	ND<100	120	ND<2.5	ND<2.5	6.6	42	NA	NA	NA	NA	NA	NA
MW-6	11/07/03	ND<1000	ND<200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	560	NA	NA	NA	NA	NA	NA
MW-7	11/07/03	ND<500	ND<100	53	ND<2.5	ND<2.5	13	ND<2.5	NA	NA	NA	NA	NA	NA
MW-8	11/07/03	ND<1000	ND<200	440	ND<5.0	ND<5.0	18	ND<5.0	NA	NA	NA	NA	NA	NA
RW-1	11/07/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.1	NA	NA	NA	NA	NA	NA
WGR-3	11/07/03	ND<100	ND<20	45	ND<0.50	ND<0.50	10	ND<0.50	NA	NA	NA	NA	NA	NA

Note Tetrachloroethene analyzed using EPA Method 8260B
µg/L = Micrograms per liter
NA = Not analyzed
ND< = Not detected at or above laboratory reporting limit
PCE = Tetra chloroethene
TCE = Trichloroethene
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
trans-1,2-DCE = trans 1,2-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
VOC = Volatile Organic Compounds
a = 1,1 DCE
b = 1,2 DCA
c = Chlorobenzene

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

Table 3
Groundwater Flow Direction and Gradient

ARCO Service Station #0276
10600 MacArthur Boulevard,
Oakland, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
12/17/00	South-Southeast	0.003
12/28/01	Southeast	0.002
11/27/02	South-Southeast	0.003
07/22/03	South	0.007
11/07/03	Southwest	0.0035

Source : The data within this table collected prior to November 2002 was provided to URS by Group Environmental Management 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 # 031107-DA2 Date 11/7/03 Client Arco/BP 276

Site 10600 MacArthur Blvd. Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	NPC
MW-1	2					30.42	38.80	TOC	19'
MW-2	4					18.22	27.60		
MW-3	2					30.86	38.60		22'
MW-4	2					30.41	48.30		25'
MW-5	4					29.99	47.00		
MW-6	2					35.70	54.10		
MW-7	2					23.76	55.00		
MW-8	4					28.27	47.70		
RW-1	6					30.64	48.90		
WGR-3	4					23.11	27.50	✓	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031107-DAZ	Station # Arco 276
Sampler: DA	Date: 11/07/03
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 38.80	Depth to Water: 30.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Positive Air Displacement Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

Top of Screen: 19' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

_____	x	NO PURGE	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1040	65.5	6.6	1566	-	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: _____
Sampling Time: 1040	Sampling Date: 11/07/03
Sample I.D.: MW-1	Laboratory: Pace <input checked="" type="checkbox"/> Sequoia <input type="checkbox"/> Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: Ours, Methanol, PCE's	
D.O. (if req'd): 2.1 m3	Pre-purge: _____ mg/L Post-purge: 2.1 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031107-DA2	Station # Arco 276
Sampler: DA	Date: 11/7/05
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 27.60	Depth to Water: 18.22
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	<u>4"</u>	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 <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
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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>6.1</u>	x	<u>3</u>	=	<u>18.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1314	67.8	6.9	802	6.5	clear
1315	68.3	6.6	730	13.0	"
1316	68.4	6.7	721	19.5	"

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: 18.5
Sampling Time: 1320	Sampling Date: 11/7/05
Sample I.D.: MW-2	Laboratory: Pace <u>Sequoia</u> Other _____

Analyzed for: <u>PH-G BTEX</u> MTBE TPH-D Other: See CAC		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: 1.8 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031107-DAZ	Station # Arco 276
Sampler: DA	Date: 11/07/03
Well I.D.: MW-3	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 38.60	Depth to Water: 30.86
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVC</u> 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 checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air-Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: 22' — If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

_____	x	<u>No Purge</u>	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1005	63.6	6.5	638	—	clear

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Time: 1008 Sampling Date: 11/07/03

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: nick, Methanol, PCE

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 2.8 mg/L

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031107-DAZ	Station # Arco 276
Sampler: DA	Date: 11/7/03
Well I.D.: MW-4	Well Diameter: ② 3 4 6 8
Total Well Depth: 49.30	Depth to Water: 30.41
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(NVC)</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: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
--	--

Top of Screen: 25' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

$\frac{\text{1 Case Volume (Gals.)}}{\text{Specified Volumes}} \times \frac{\text{No. Purge}}{\text{Calculated Volume}} = \text{Gals.}$

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1020	64.8	6.5	567	—	clear

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Gallons actually evacuated: —
Sampling Time: 1023	Sampling Date: —
Sample I.D.: MW-4	Laboratory: Pace <u>(Sequoia)</u> Other _____
Analyzed for: <u>PH-G BTEX</u> MTBE TPH-D Other: <u>Oxy's, Ethanol, PCE</u>	

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.0 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031107-DA2	Station # Arco 276
Sampler: DA	Date: 11/7/03
Well I.D.: MW-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 47.00	Depth to Water: 29.99
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
<u>2"</u>	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 checked="" type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> 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.

11.0	x	3	=	33.0	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1403	65.7	6.5	763	11	clear
1405	65.8	6.4	840	22	"
1407	65.9	6.2	868	33	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 33
Sampling Time: 1410	Sampling Date: 11/07/03
Sample I.D.: MW-5	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>see coc</u>	

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.6 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031107-DAZ	Station # Arco 276
Sampler: DA / M2	Date: 11/07/03
Well I.D.: MW-6	Well Diameter: <input checked="" type="checkbox"/> 2 3 4 6 8 _____
Total Well Depth: 54.10	Depth to Water: 35.70
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <input checked="" type="checkbox"/> PVC Grade _____	D.O. Meter (if req'd): <input checked="" type="checkbox"/> 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 checked="" type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> 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.

2.9	x	3	=	8.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1109	63.9	7.1	1746	3	tan, turbid
1112	64.1	6.9	1723	6	"
1115	64.1	6.9	1710	9	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 9
Sampling Time: 1120	Sampling Date: 11/07/03
Sample I.D.: MW-6	Laboratory: Pace <input checked="" type="checkbox"/> Sequoia Other _____
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> TPH-D Other: <u>Oil, Methanol, DCE</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: 2.7 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031107-DAZ	Station # Arco 276
Sampler: DA	Date: 11/7/03
Well I.D.: MW-7	Well Diameter: ② 3 4 6 8
Total Well Depth: 55.00 (33.55)	Depth to Water: 23.76
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</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 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 checked="" type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> 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>4.9</u>	x	<u>3</u>	=	<u>14.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1351	65.2	6.4	646	5	gray, gas odor, sheen
1355	67.0	6.2	650	5	" " "
1359	66.8	6.8	653	15	"
*ORC's stuck in well					

Did well dewater? Yes <input checked="" type="checkbox"/> No	Gallons actually evacuated: 15	
Sampling Time: 1402	Sampling Date: 11/7/03	
Sample I.D.: MW-7	Laboratory: Pace <u>Secudia</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: 2.2 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031107-DAZ	Station # Arco 276
Sampler: DA	Date: 11/7/03
Well I.D.: MW-8	Well Diameter: 2 3 4 6 8
Total Well Depth: 47.70	Depth to Water: 28.27
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 <input type="checkbox"/> 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.

12.6	X	3	=	37.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1253	67.0	6.3	759	13	clear
1256	67.9	6.5	767	26	
1258	68.0	6.5	775	39	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: 38
Sampling Time: 1302	Sampling Date: 11/7/03
Sample I.D.: MW-8	Laboratory: Pace Sequoia Other _____
Analyzed for: PH-G BTEX MTBE TPH-D Other: See C.O.C.	

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031107-DA2	Station # Arco 276
Sampler: DA	Date: 11/07/03
Well I.D.: RW-1	Well Diameter: 2 3 4 6 8
Total Well Depth: 48.90	Depth to Water: 30.64
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSJ 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.

$\frac{26.84}{1 \text{ Case Volume (Gals.)}}$	x	$\frac{3}{\text{Specified Volumes}}$	=	$\frac{80.5}{\text{Calculated Volume}}$ Gals.
---	---	--------------------------------------	---	---

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
1336	64.4	7.1	1566	27	clear
1341	64.5	6.9	1587	54	
1346	64.5	7.0	1583	81	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: 81
Sampling Time: 1350	Sampling Date: 11/07/03
Sample I.D.: RW-1 RW-1	Laboratory: Pace Sequoia Other: _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: 3.1 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031107-DA2	Station # Arco 276
Sampler: DA	Date: 11/7/03
Well I.D.: W6R-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 27.50	Depth to Water: 23.11
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: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> 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>2.9</u>	x	<u>3</u>	=	<u>8.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1127	64.8	7.7	712	3	clear
1128	66.3	6.7	563	6	cloudy
1129	66.6	6.4	526	9	"

Did well dewater? Yes <input type="checkbox"/> <input checked="" type="checkbox"/> No	Gallons actually evacuated: <u>9</u>	
Sampling Time: <u>1132</u>	Sampling Date: <u>11/7/03</u>	
Sample I.D.: <u>W6R-3</u>	Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>See COC</u>		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>0.9</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:

Avco 276

Station #

10600 MacArthur Blvd. Oakland, CA

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

203

added equip. 20
rinse water

any other adjustments

TOTAL GALS. RECOVERED 223

loaded onto BTS vehicle # 49

BTS event #

time date

031107-DA2

1030

11/7/03

signature David Aubert

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 Group Environmental Management Company have been reviewed and verified by that laboratory.



1 December, 2003

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

RE: ARCO #0276, Oakland, CA
Work Order: MMK0358

Enclosed are the results of analyses for samples received by the laboratory on 11/10/03 16:55. 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 #0276, Oakland, CA Project Number INTRIM-50353 Project Manager: Scott Robinson	MMK0358 Reported: 12/01/03 18:18
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MMK0358-01	Water	11/07/03 10:40	11/10/03 16:55
MW-2	MMK0358-02	Water	11/07/03 13:20	11/10/03 16:55
MW-3	MMK0358-03	Water	11/07/03 10:08	11/10/03 16:55
MW-4	MMK0358-04	Water	11/07/03 10:23	11/10/03 16:55
MW-5	MMK0358-05	Water	11/07/03 14:10	11/10/03 16:55
MW-6	MMK0358-06	Water	11/07/03 11:20	11/10/03 16:55
MW-7	MMK0358-07	Water	11/07/03 14:02	11/10/03 16:55
MW-8	MMK0358-08	Water	11/07/03 13:02	11/10/03 16:55
RW-1	MMK0358-09	Water	11/07/03 13:50	11/10/03 16:55
WGR-3	MMK0358-10	Water	11/07/03 13:50	11/10/03 16:55
TB	MMK0358-11	Water	11/07/03 00:00	11/10/03 16:55

There were custody seals received with this project.



URS Corporation [Arco] 500 12th Street, Suite 200 Oakland CA, 94607	Project: ARCO #0276, Oakland, CA Project Number: INTRIM-50353 Project Manager: Scott Robinson	MMK0358 Reported: 12/01/03 18:18
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Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MMK0358-01) Water Sampled: 11/07/03 10:40 Received: 11/10/03 16:55									
Ethanol	ND	100	ug/l	1	3K21006	11/21/03	11/21/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-10
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>		96.4 %	78-129	"	"	"	"	"	
MW-2 (MMK0358-02) Water Sampled: 11/07/03 13:20 Received: 11/10/03 16:55									
Ethanol	ND	1000	ug/l	10	3K21006	11/21/03	11/21/03	EPA 8260B	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	O-10
Methyl tert-butyl ether	110	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	28	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics	990	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		78.2 %	78-129	"	"	"	"	"	



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

Project: ARCO #0276, Oakland, CA
Project Number: INTRIM-50353
Project Manager: Scott Robinson

MMK0358
Reported:
12/01/03 18:18

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMK0358-03) Water Sampled: 11/07/03 10:08 Received: 11/10/03 16:55									
Ethanol	ND	100	ug/l	1	3K21006	11/21/03	11/21/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-10
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	70	50	"	"	"	"	"	"	HC-19
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>91.2 %</i>		<i>78-129</i>	"	"	"	"	
MW-4 (MMK0358-04) Water Sampled: 11/07/03 10:23 Received: 11/10/03 16:55									
Ethanol	ND	100	ug/l	1	3K21006	11/21/03	11/21/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-10
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	59	50	"	"	"	"	"	"	HC-19
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>90.8 %</i>		<i>78-129</i>	"	"	"	"	



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

Project: ARCO #0276, Oakland, CA
Project Number: INTRIM-50353
Project Manager: Scott Robinson

MMK0358
Reported:
12/01/03 18:18

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MMK0358-05) Water Sampled: 11/07/03 14:10 Received: 11/10/03 16:55									
Ethanol	ND	500	ug/l	5	3K21006	11/21/03	11/21/03	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	O-10
Methyl tert-butyl ether	120	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	6.6	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics	ND	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %		78-129	"	"	"	"	
MW-6 (MMK0358-06) Water Sampled: 11/07/03 11:20 Received: 11/10/03 16:55 HT-RA, R-05									
Ethanol	ND	1000	ug/l	10	3K21006	11/21/03	11/22/03	EPA 8260B	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	O-10
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics	ND	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.6 %		78-129	"	"	"	"	



URS Corporation [Arco]
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Reported:
12/01/03 18:18

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (MMK0358-07) Water									HT-RA
Sampled: 11/07/03 14:02 Received: 11/10/03 16:55									
Ethanol	ND	500	ug/l	5	3K21006	11/21/03	11/22/03	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	O-10
Methyl tert-butyl ether	53	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	13	2.5	"	"	"	"	"	"	
Benzene	15	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	130	2.5	"	"	"	"	"	"	
Xylenes (total)	11	2.5	"	"	"	"	"	"	
Gasoline Range Organics	3200	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		94.8 %		78-129	"	"	"	"	
MW-8 (MMK0358-08) Water									
Sampled: 11/07/03 13:02 Received: 11/10/03 16:55									
Ethanol	ND	1000	ug/l	10	3K21006	11/21/03	11/21/03	EPA 8260B	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	O-10
Methyl tert-butyl ether	440	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	18	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Gasoline Range Organics	ND	500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		92.8 %		78-129	"	"	"	"	



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Reported:
12/01/03 18:18

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
RW-1 (MMK0358-09) Water Sampled: 11/07/03 13:50 Received: 11/10/03 16:55										
Ethanol	ND	100		ug/l	1	3K21006	11/21/03	11/21/03	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	O-10
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>		94.4 %		78-129		"	"	"	"	
WGR-3 (MMK0358-10) Water Sampled: 11/07/03 13:50 Received: 11/10/03 16:55										
Ethanol	ND	100		ug/l	1	3K21006	11/21/03	11/21/03	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	O-10
Methyl tert-butyl ether	45	0.50		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
tert-Amyl methyl ether	10	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>		91.4 %		78-129		"	"	"	"	

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Reported:
 12/01/03 18:18

EPA 8010 list Volatile Organic Compounds by EPA 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MMK0358-01) Water Sampled: 11/07/03 10:40 Received: 11/10/03 16:55									
Tetrachloroethene	3.0	0.50	ug/l	1	3K21006	11/21/03	11/21/03	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>92.6 %</i>	<i>73-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>96.4 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>95.8 %</i>	<i>81-116</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>95.4 %</i>	<i>71-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
MW-2 (MMK0358-02) Water Sampled: 11/07/03 13:20 Received: 11/10/03 16:55									
Tetrachloroethene	ND	5.0	ug/l	10	3K21006	11/21/03	11/21/03	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>80.0 %</i>	<i>73-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>78.2 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>97.4 %</i>	<i>81-116</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>92.0 %</i>	<i>71-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
MW-3 (MMK0358-03) Water Sampled: 11/07/03 10:08 Received: 11/10/03 16:55									
Tetrachloroethene	80	0.50	ug/l	1	3K21006	11/21/03	11/21/03	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>92.8 %</i>	<i>73-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>91.2 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>97.6 %</i>	<i>81-116</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>92.0 %</i>	<i>71-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
MW-4 (MMK0358-04) Water Sampled: 11/07/03 10:23 Received: 11/10/03 16:55									
Tetrachloroethene	68	0.50	ug/l	1	3K21006	11/21/03	11/21/03	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>87.6 %</i>	<i>73-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>90.8 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>97.2 %</i>	<i>81-116</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>94.6 %</i>	<i>71-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	



URS Corporation [Arco] 500 12th Street, Suite 200 Oakland CA, 94607	Project: ARCO #0276, Oakland, CA Project Number: INTRIM-50353 Project Manager: Scott Robinson	MMK0358 Reported: 12/01/03 18:18
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EPA 8010 list Volatile Organic Compounds by EPA 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MMK0358-05) Water Sampled: 11/07/03 14:10 Received: 11/10/03 16:55									
Tetrachloroethene	42	2.5	ug/l	5	3K21006	11/21/03	11/21/03	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>97.2 %</i>	<i>73-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>99.8 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>98.0 %</i>	<i>81-116</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>96.8 %</i>	<i>71-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
MW-6 (MMK0358-06) Water Sampled: 11/07/03 11:20 Received: 11/10/03 16:55 HT-RA									
Tetrachloroethene	560	5.0	ug/l	10	3K21006	11/21/03	11/22/03	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>93.2 %</i>	<i>73-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>91.6 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>92.4 %</i>	<i>81-116</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>91.0 %</i>	<i>71-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
MW-7 (MMK0358-07) Water Sampled: 11/07/03 14:02 Received: 11/10/03 16:55 HT-RA									
Tetrachloroethene	ND	2.5	ug/l	5	3K21006	11/21/03	11/22/03	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>89.8 %</i>	<i>73-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>94.8 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>104 %</i>	<i>81-116</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>95.0 %</i>	<i>71-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
MW-8 (MMK0358-08) Water Sampled: 11/07/03 13:02 Received: 11/10/03 16:55									
Tetrachloroethene	ND	5.0	ug/l	10	3K21006	11/21/03	11/21/03	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		<i>89.0 %</i>	<i>73-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>92.8 %</i>	<i>78-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>91.4 %</i>	<i>81-116</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>83.8 %</i>	<i>71-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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 12/01/03 18:18

EPA 8010 list Volatile Organic Compounds by EPA 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-1 (MMK0358-09) Water Sampled: 11/07/03 13:50 Received: 11/10/03 16:55									
Tetrachloroethene	3.1	0.50	ug/l	1	3K21006	11/21/03	11/21/03	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		94.0 %	73-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.4 %	78-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.2 %	81-116		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.6 %	71-117		"	"	"	"	
WGR-3 (MMK0358-10) Water Sampled: 11/07/03 13:50 Received: 11/10/03 16:55									
Tetrachloroethene	ND	0.50	ug/l	1	3K21006	11/21/03	11/21/03	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>		93.6 %	73-130		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	78-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93.6 %	81-116		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89.0 %	71-117		"	"	"	"	



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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 3K21006 - EPA 5030B P/T

Blank (3K21006-BLK1)

Prepared & Analyzed: 11/21/03

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							O-10
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	"							

Surrogate: 1,2-Dichloroethane-d4

6.03 " 5.00 121 78-129

Laboratory Control Sample (3K21006-BS1)

Prepared: 11/21/03 Analyzed: 11/22/03

Ethanol	214	100	ug/l	200	107	31-186				
tert-Butyl alcohol	40.4	20	"	50.0	80.8	0-206				O-10
Methyl tert-butyl ether	8.24	0.50	"	10.0	82.4	63-137				
Di-isopropyl ether	9.51	0.50	"	10.0	95.1	76-130				
Ethyl tert-butyl ether	8.84	0.50	"	10.0	88.4	61-141				
tert-Amyl methyl ether	8.42	0.50	"	10.0	84.2	56-140				
Benzene	8.92	0.50	"	10.0	89.2	78-124				
Toluene	9.56	0.50	"	10.0	95.6	78-129				
Ethylbenzene	9.82	0.50	"	10.0	98.2	84-117				
Xylenes (total)	29.8	0.50	"	30.0	99.3	83-125				

Surrogate: 1,2-Dichloroethane-d4

3.84 " 5.00 76.8 78-129 S-LIM

Laboratory Control Sample (3K21006-BS2)

Prepared: 11/21/03 Analyzed: 11/22/03

Gasoline Range Organics	449	50	ug/l	440	102	70-113				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.43		"	5.00	88.6	78-129				



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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 3K21006 - EPA 5030B P/T

Laboratory Control Sample Dup (3K21006-BSD1)				Prepared: 11/21/03 Analyzed: 11/22/03						
Ethanol	206	100	ug/l	200	103	31-186	3.81	37		
tert-Butyl alcohol	41.4	20	"	50.0	82.8	0-206	2.44	22		O-10
Methyl tert-butyl ether	9.69	0.50	"	10.0	96.9	63-137	16.2	13		QR-02
Di-isopropyl ether	10.7	0.50	"	10.0	107	76-130	11.8	9		QR-02
Ethyl tert-butyl ether	10.3	0.50	"	10.0	103	61-141	15.3	9		QR-02
tert-Amyl methyl ether	9.78	0.50	"	10.0	97.8	56-140	14.9	12		QR-02
Benzene	9.35	0.50	"	10.0	93.5	78-124	4.71	12		
Toluene	8.99	0.50	"	10.0	89.9	78-129	6.15	10		
Ethylbenzene	9.39	0.50	"	10.0	93.9	84-117	4.48	10		
Xylenes (total)	28.3	0.50	"	30.0	94.3	83-125	5.16	11		

<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.32		"	5.00		86.4	78-129			
Laboratory Control Sample Dup (3K21006-BSD2)				Prepared: 11/21/03 Analyzed: 11/22/03						
Gasoline Range Organics	462	50	ug/l	440	105	70-113	2.85	9		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.02		"	5.00		40.4	78-129			S-LIM



URS Corporation [Arco] 500 12th Street, Suite 200 Oakland CA, 94607	Project ARCO #0276, Oakland, CA Project Number: INTRIM-50353 Project Manager: Scott Robinson	MMK0358 Reported: 12/01/03 18:18
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EPA 8010 list Volatile Organic Compounds by EPA 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 3K21006 - EPA 5030B P/T

Blank (3K21006-BLK1)

Prepared & Analyzed: 11/21/03

Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Methylene chloride	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Freon 113	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	5.60		"	5.00		112	73-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	6.03		"	5.00		121	78-129			
<i>Surrogate: Toluene-d8</i>	4.88		"	5.00		97.6	81-116			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.87		"	5.00		97.4	71-117			

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 #0276, Oakland, CA
Project Number INTRIM-50353
Project Manager: Scott Robinson

MMK0358
Reported:
12/01/03 18:18

**EPA 8010 list Volatile Organic Compounds by EPA 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 3K21006 - EPA 5030B P/T

Laboratory Control Sample (3K21006-BS1)

Prepared: 11/21/03 Analyzed: 11/22/03

Chlorobenzene	9.60	0.50	ug/l	10.0		96.0	80-127			
1,1-Dichloroethene	9.97	0.50	"	10.0		99.7	75-124			
Trichloroethene	9.35	0.50	"	10.0		93.5	75-133			
<i>Surrogate: Dibromofluoromethane</i>	<i>4.07</i>		<i>"</i>	<i>5.00</i>		<i>81.4</i>	<i>73-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>3.84</i>		<i>"</i>	<i>5.00</i>		<i>76.8</i>	<i>78-129</i>			<i>S-LIM</i>
<i>Surrogate: Toluene-d8</i>	<i>4.73</i>		<i>"</i>	<i>5.00</i>		<i>94.6</i>	<i>81-116</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>4.34</i>		<i>"</i>	<i>5.00</i>		<i>86.8</i>	<i>71-117</i>			

Laboratory Control Sample Dup (3K21006-BSD1)

Prepared: 11/21/03 Analyzed: 11/22/03

Chlorobenzene	9.54	0.50	ug/l	10.0		95.4	80-127	0.627	10	
1,1-Dichloroethene	9.85	0.50	"	10.0		98.5	75-124	1.21	16	
Trichloroethene	9.83	0.50	"	10.0		98.3	75-133	5.01	16	
<i>Surrogate: Dibromofluoromethane</i>	<i>4.73</i>		<i>"</i>	<i>5.00</i>		<i>94.6</i>	<i>73-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.32</i>		<i>"</i>	<i>5.00</i>		<i>86.4</i>	<i>78-129</i>			
<i>Surrogate: Toluene-d8</i>	<i>4.87</i>		<i>"</i>	<i>5.00</i>		<i>97.4</i>	<i>81-116</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>4.87</i>		<i>"</i>	<i>5.00</i>		<i>97.4</i>	<i>71-117</i>			



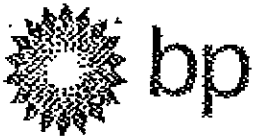
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: ARCO #0276, Oakland, CA
Project Number: INTRIM-50353
Project Manager: Scott Robinson

MMK0358
Reported:
12/01/03 18:18

Notes and Definitions

- HC-19 Discrete peak @ C7-C8.
- HT-RA 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.
- O-10 The result was reported with a possible low bias due to the continuing calibration verification falling outside the acceptance criteria.
- QR-02 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.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- S-LIM The surrogate recovery was outside control limits. The result may still be useful for its intended purpose.
- 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 276 GWM

BP/BP/GEM CO Portfolio Retail

MHK0358

BP Laboratory Contract Number: Atlantic Richfield Company

On-site Time: 1300 Temp: 66.8
 Off-site Time: 1430 Temp: 66.6
 Sky Conditions: cloudy
 Meteorological Events: showers
 Wind Speed: — Direction: —

Date: 11/7/03 Requested Due Date (mm/dd/yy) 14 day TAT

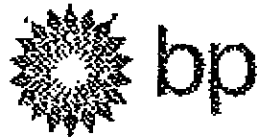
Send To:	BP/GEM Facility No.: <u>ARCO 276</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>10600 MacArthur Blvd, OAKLAND, CA</u>	Address: <u>500 12th St, Ste. 200</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 276</u>	<u>Oakland, CA 94609-4014</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail BDD: <u>domna.casper@URSCorp.com</u>
	California Global ID #: <u>T0600100082</u>	Consultant/Contractor Project No.: <u>J5-00000276.01 00427</u>
Lab PM <u>Theresa Allen</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Tele/Fax: <u>408-776-8500 / 408-782-6308</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>1 Send EDF Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: <u>Consultant/Contractor of BP/GEM (circle one)</u>
BP/GEM Account No.:	Tele/Fax: <u>925-299-8801/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50353</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 (8015/8021/8260)	TPH-D (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE, DIPE, TBA (8260)	1,2-DCA & EDB (8260)	Ethanol (8260)	
1	MW-1	1040	X				01	6					X			X		X		
2	MW-2	1320					02						X			X		X		
3	MW-3	1006					03						X			X		X		
4	MW-4	1023					04						X			X		X		
5	MW-5	1410					05						X			X		X		
6	MW-6	1120					06						X			X		X		
7	MW-7	1402					07						X			X		X		
8	MW-8	1502					08						X			X		X		
9	RW-1	1350					09						X			X		X		
10	WGF-3	1132					10						X			X		X		

Sampler's Name: <u>David Allbut</u>	Relinquished By / Affiliation: <u>David Allbut / RTS</u>	Date: <u>11/10/03</u>	Time: <u>11:50</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/10/03</u>	Time: <u>11:50</u>
Sampler's Company: <u>Blaine Tech</u>						
Shipment Date: <u>11/10/03</u>						
Shipment Method:						
Shipment Tracking No.:						

Special 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 4.3°C Trip Blank Yes No



Chain of Custody Record

Project Name 276 GWM

BP BU/GEM CO Portfolio Retail

BP Laboratory Contract Number: Atlantic Richfield Company

MNK0358

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	<u>See p. 1</u>
Meteorological Events:	
Wind Speed:	Direction:

Date: 11/2/03

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

Send To:	BP/GEM Facility No.: <u>ARCO 276</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>10600 MacArthur Blvd, OAKLAND, CA</u>	Address: <u>500 12th St., Ste. 201</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No.: <u>ARCO 276</u>	<u>Oakland, CA 94607-4014</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail RIDD: <u>donna.casper@URSCorp.com</u>
Lab PM <u>Theresa Allen</u>	California Global ID #: <u>T0600100082</u>	Consultant/Contractor Project No.: <u>15-00000276.01 00427</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-2600/510-874-3268</u>
Report Type & QC Level: <u>I Send EDP 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: <u>Consultant/Contractor of BP/GEM (Circle one)</u>
Lab Bottle Order No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No.: <u>INTRIM-50353</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) (8260)	TPH-D (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE (8260)	DIPE, TBA (8260)		1,2-DCA & EDB (8260)
1	TB	-	X				2			X										on hold
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>David Allbut</u>	Relinquished By / Affiliation: <u>David Allbut / BTS</u>	Date: <u>11/2/03</u>	Time: <u>11:50</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/2/03</u>	Time: <u>11:50</u>
Sampler's Company: <u>Blaine Tech</u>		Date: <u>11/4/03</u>	Time: <u>16:35</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/4/03</u>	Time: <u>16:35</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No.:						

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

by Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 4.3 °F (C) Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
 REC. BY (PRINT): AS
 WORKORDER: MNR0358

DATE REC'D AT LAB: 11-10-03
 TIME REC'D AT LAB: 1655
 DATE LOGGED IN: 11-11-03

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) <input checked="" type="radio"/> Present <input type="radio"/> Absent <input type="radio"/> Intact <input type="radio"/> Broken*			MW-1	(6) VOAS	HCL	L	11-7-03	107-HA326500
2. Chain-of-Custody <input checked="" type="radio"/> Present <input type="radio"/> Absent*			MW-2	↓	↓	↓	↓	
3. Traffic Reports or Packing List: <input type="radio"/> Present <input checked="" type="radio"/> Absent			MW-3					
4. Airbill: <input type="radio"/> Airbill / Sticker <input checked="" type="radio"/> Present <input type="radio"/> Absent			MW-4					
5. Airbill #:			MW-5					
6. Sample Labels: <input checked="" type="radio"/> Present <input type="radio"/> Absent			MW-6					
7. Sample IDs: <input checked="" type="radio"/> Listed <input type="radio"/> Not Listed on Chain-of-Custody			MW-7					
8. Sample Condition: <input checked="" type="radio"/> Intact <input type="radio"/> Broken* / <input type="radio"/> Leaking*			MW-8					
			RW-1					
			WGR-3	(2) VOAS	↓	↓	↓	
9. Does information on custody reports, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes <input type="radio"/> No*			TB					
10. Sample received within hold time: <input checked="" type="radio"/> Yes <input type="radio"/> No*								
11. Proper Preservatives used: <input checked="" type="radio"/> Yes <input type="radio"/> No*								
12. Temp Rec. at Lab: Is temp 4 +/- 2°C? <input checked="" type="radio"/> Yes <input type="radio"/> No** <u>4.3°C</u>								
<div style="position: absolute; top: 50px; left: 50%; transform: translate(-50%, -50%); font-size: 2em; font-weight: bold;"> 11-10-03 AS </div>								

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

ATTACHMENT C

HISTORIC GROUNDWATER DATA

Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well	Date	TOC Elevation	Depth to Water	FP Thickness	Groundwater Elevation	Date	Tetra- chloro- ethene (PCE)	Tetra- chloro- ethene (TCE)	trans- 1,2- Dichloro- ethene	cis-1,2- Dichloro- ethene	Freon 12	Dissolved Oxygen	Purged Not Purged
Number	Gauged	(ft-MSL)	(feet)	(ft-MSL)	(ft-MSL)	Sampled	µg/L	µg/L	µg/L	µg/L	µg/L	(mg/l)	(P/NP)
MW-1	03-10-95	55.92	26.26	ND	29.66	03-10-95	170	<1	--	<1	--	--	--
MW-1	06-05-95	55.92	25.71	ND	30.21	06-05-95	210	<5	--	<5	--	--	--
MW-1	08-29-95	55.92	28.44	ND	27.48	08-29-95	130	<1	--	<1	--	--	--
MW-1	11-16-95	55.92	30.85	ND	25.07	11-16-95	45	<1	--	<1	<1	--	--
MW-1	02-28-96	55.92	24.99	ND	30.93	02-28-96	97	<1	<1	<1	<1	--	--
MW-1	05-28-96	55.92	24.92	ND	31.00	05-28-96	160	<5	<5	<5	--	--	--
MW-1	08-19-96	55.92	28.04	ND	27.88	08-19-96	77	<1	<1	<1	--	--	--
MW-1	11-21-96	55.92	30.19	ND	25.73	11-21-96	30	<1	<1	<1	--	--	--
MW-1	03-26-97	55.92	24.90	ND	31.02	03-26-97	66	<1	<1	<1	--	--	--
MW-1	05-20-97	55.92	26.99	ND	28.93	05-20-97	36	<1	<1	<1	--	--	--
MW-1	08-18-97	55.92	29.98	ND	25.94	08-18-97	11	<0.5	<0.5	<0.5	--	--	--
MW-1	11-17-97	55.92	31.72	ND	24.20	11-17-97		<0.5	<0.5	<0.5	--	--	--
MW-1	12-02-99	55.92	Not surveyed			12-02-99	Not analyzed for Halogenated Volatile Organic Compounds Not surveyed: well was inaccessible						
MW-2	03-10-95	55.10	13.98	ND	41.12	03-11-95	<1	<1	--	<1	--	--	--
MW-2	06-05-95	55.10	15.65	ND	39.45	06-05-95	<1	<1	--	<1	--	--	--
MW-2	08-29-95	55.10	17.14	ND	37.96	08-29-95	<5	<5	--	<5	--	--	--
MW-2	11-16-95	55.10	Not surveyed			11-16-95	Not surveyed: well was inaccessible						
MW-2	02-28-96	55.10	12.46	ND	42.64	02-28-96	<1	<1	<1	<1	--	--	--
MW-2	05-28-96	55.10	15.23	ND	39.87	05-28-96	<1	<1	<1	<1	--	--	--
MW-2	08-19-96	55.10	16.84	ND	38.26	08-21-96	<1	<1	<1	<1	--	--	--
MW-2	11-21-96	55.10	15.44	ND	39.66	11-21-96	<1	<1	<1	<1	--	--	--
MW-2	03-26-97	55.10	15.73	ND	39.37	03-26-97	<10 [^]	<10 [^]	<10 [^]	<10 [^]	--	--	--
MW-2	05-20-97	55.10	16.07	ND	39.03	05-20-97	<1 [^]	<1 [^]	<1 [^]	<1 [^]	--	--	--
MW-2	08-18-97	55.10	17.28	ND	37.82	08-18-97	<5 [^]	<5 [^]	<5 [^]	<5 [^]	--	--	--
MW-2	11-17-97	55.10	16.75	ND	38.35	11-17-97		<5 [^]	<5 [^]	<5 [^]	--	--	--
MW-2	12-02-99	55.10	Not surveyed			12-02-99	Not analyzed for Halogenated Volatile Organic Compounds Not sampled: not on sampling schedule						

OAKS:\ARCO\0276\QTRLY\0276q495.xls\uh:1
 Recreated from electronic data provided by Pinnacle

Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well	Date	TOC Elevation	Depth to Water	FP Thickness	Groundwater Elevation	Date	Tetra- chloro- ethene (PCE)	Tetra- chloro- ethene (TCE)	trans- 1,2- Dichloro- ethene	cis-1,2- Dichloro- ethene	Freon 12	Dissolved Oxygen	Purged Not Purged
Number	Gauged	(ft-MSL)	(feet)	(ft-MSL)	(ft-MSL)	Sampled	µg/L	µg/L	µg/L	µg/L	µg/L	(mg/l)	(P/NP)
MW-3	03-10-95	56.55	26.74	ND	29.81	03-11-95	1700	<10	--	<10	--		
MW-3	06-05-95	56.55	25.34	ND	30.21	06-05-95	2500	<20	--	<20	--		
MW-3	08-29-95	56.55	29.15	ND	27.40	08-29-95	1600	<20	--	<20	--		
MW-3	11-16-95	56.55	31.50	ND	25.05	11-16-95	1100	<20	--	<20	--		
MW-3	02-28-96	56.55	25.32	ND	31.23	02-28-96	1100	<10	<10	<10	<20		
MW-3	05-28-96	56.55	25.46	ND	31.09	05-28-96	1700	<20	<20	<20	--		
MW-3	08-19-96	56.55	28.71	ND	27.84	08-19-96	1200	<20	<20	<20	--		
MW-3	11-21-96	56.55	30.85	ND	25.70	11-21-96	710	<20 [^]	<20 [^]	<20 [^]	--		
MW-3	03-26-97	56.55	25.36	ND	31.19	03-26-97	710	<40 [^]	<40 [^]	<40 [^]	--		
MW-3	05-20-97	56.55	27.61	ND	28.94	05-20-97	800	<25 [^]	<25 [^]	<25 [^]	--		
MW-3	08-18-97	56.55	30.62	ND	25.93	08-18-97	420	<5 [^]	<5 [^]	<5 [^]	--		
MW-3	11-17-97	56.55	32.40	ND	24.15	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-3	12-02-99	56.55	30.75	ND	25.80	12-02-99	210*	<0.5*	<0.5*	<0.5*	--	0.47	NP
MW-4	03-10-95	55.98	26.22	ND	29.76	03-11-95	2600	<20	--	<20	--		
MW-4	06-05-95	55.98	25.79	ND	30.19	06-05-95	3100	<20	--	<20	--		
MW-4	08-29-95	55.98	28.56	ND	27.42	08-29-95	2900	<20	--	<20	--		
MW-4	11-16-95	55.98	31.00	ND	24.98	11-16-95	2100	<20	--	<20	--		
MW-4	02-28-96	55.98	24.77	ND	31.21	02-28-96	2400	<20	<20	<20	<20		
MW-4	05-28-96	55.98	24.91	ND	31.07	05-28-96	2700	<20	<20	<20	--		
MW-4	08-19-96	55.98	28.17	ND	27.81	08-19-96	2600	<20	<20	<20	--		
MW-4	11-21-96	55.98	30.30	ND	25.68	11-21-96	1100	<20 [^]	<20 [^]	<20 [^]	--		
MW-4	03-26-97	55.98	24.80	ND	31.18	03-26-97	1900	<40 [^]	<40 [^]	<40 [^]	--		
MW-4	05-20-97	55.98	27.03	ND	28.95	05-20-97	1600	<50 [^]	<50 [^]	<50 [^]	--		
MW-4	08-18-97	55.98	30.10	ND	25.88	08-18-97	600	<125 [^]	<125 [^]	--	--		
MW-4	11-17-97	55.98	31.84	ND	24.14	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-4	12-02-99	55.98	30.20	ND	25.78	12-02-99	320*	<0.5*	<0.5*	<0.5*	--	1.03	NP

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Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well	Date	TOC Elevation	Depth to Water	FP Thickness	Groundwater Elevation	Date	Tetra- chloro- ethene (PCE)	Tetra- chloro- ethene (TCE)	trans- 1,2- Dichloro- ethene	cis-1,2- Dichloro- ethene	Freon 12	Dissolved Oxygen	Purged/ Not Purged
Number	Gauged	(ft-MSL)	(feet)	(ft-MSL)	(ft-MSL)	Sampled	µg/L	µg/L	µg/L	µg/L	µg/L	(mg/l)	(P/NP)
MW-5	03-10-95	55.43	25.62	ND	29.81	03-10-95	270	<5	--	<5	--		
MW-5	06-05-95	55.43	25.30	ND	30.13	06-05-95	310	<5	--	<5	--		
MW-5	08-29-95	55.43	28.21	ND	27.22	08-29-95	240	<5	--	<5	--		
MW-5	11-16-95	55.43	30.63	ND	24.80	11-16-95	940	<5	--	<5	<5		
MW-5	02-28-96	55.43	24.07	ND	31.36	02-28-96	1100	<10	<10	<10	--		
MW-5	05-28-96	55.43	24.42	ND	31.01	05-28-96	360	<5	<5	<5	--		
MW-5	08-19-96	55.43	27.82	ND	27.61	08-21-96	150	<1	<1	2	--		
MW-5	11-21-96	55.43	29.92	ND	25.51	11-21-96	1900	<20^	<20^	<20^	--		
MW-5	03-26-97	55.43	24.22	ND	31.21	03-26-97	270	<10^	<10^	<10^	--		
MW-5	05-20-97	55.43	26.60	ND	28.83	05-20-97	290	<5^	<5^	<5^	--		
MW-5	08-18-97	55.43	NR	ND	NR	08-18-97	--	--	--	--	--		
MW-5	11-17-97	55.43	Not surveyed			11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-5	12-02-99	55.43	29.84	ND	25.59	12-02-99	46*	<0.5*	<0.5*	<0.5*	--	0.53	P
MW-6	03-10-95	61.21	31.54	ND	29.67	03-11-95	1300	<20	--	<20	--		
MW-6	06-05-95	61.21	31.15	ND	30.06	06-05-95	2000	<20	--	<20	--		
MW-6	08-29-95	61.21	34.03	ND	27.18	08-29-95	1300	<20	--	<20	--		
MW-6	11-16-95	61.21	36.40	ND	24.81	11-16-95	1300	<20	--	<20	<20		
MW-6	02-28-96	61.21	30.18	ND	31.03	02-28-96	960	<20	<20	<20	--		
MW-6	05-28-96	61.21	30.29	ND	30.92	05-28-96	970	<20	<20	<20	--		
MW-6	08-19-96	61.21	33.54	ND	27.67	08-19-96	820	<20	<20	<20	--		
MW-6	11-21-96	61.21	35.70	ND	25.51	11-21-96	680	<20^	<20^	<20^	--		
MW-6	03-26-97	61.21	30.15	ND	31.06	03-26-97	830	<40^	<40^	<40^	--		
MW-6	05-20-97	61.21	32.40	ND	28.81	05-20-97	270	<5^	<5^	<5^	--		
MW-6	08-18-97	61.21	35.47	ND	25.74	08-18-97	420	<62.5^	<62.5^	--	--		
MW-6	11-17-97	61.21	37.25	ND	23.96	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-6	12-02-99	61.21	35.55	ND	25.66	12-02-99	Not sampled: not on sampling schedule						

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Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well	Date	TOC Elevation	Depth to Water	FP Thickness	Groundwater Elevation	Date	Tetra- chloro- ethene (PCE)	Tetra- chloro- ethene (TCE)	trans- 1,2- Dichloro- ethene	cis-1,2- Dichloro- ethene	Freon 12	Dissolved Oxygen	Purged/ Not Purge
Number	Gauged	(ft-MSL)	(feet)	(ft-MSL)	(ft-MSL)	Sampled	µg/L	µg/L	µg/L	µg/L	µg/L	(mg/l)	(P/NP)
MW-7	03-10-95	58.22	17.69	ND^^	40.53	03-11-95	Not sampled: floating product entered the well during purging						
MW-7	06-05-95	58.22	19.68	ND	38.54	06-05-95	<10	<10	--	<10	--		
MW-7	08-29-95	58.22	21.70	ND	36.52	08-29-95	<10	<10	--	<10	--		
MW-7	11-16-95	58.22	23.02	ND	35.20	11-16-95	<20	<20	--	<20	<20		
MW-7	02-28-96	58.22	16.54	ND	41.68	02-28-96	<10	<10	<10	<10	--		
MW-7	05-28-96	58.22	19.29	ND	38.93	05-28-96	<10	<10	<10	<10	--		
MW-7	08-19-96	58.22	21.84	ND	36.38	08-21-96	<1	<1	<1	<1	--		
MW-7	11-21-96	58.22	19.58	ND	38.64	11-21-96	<10^	<10^	<10^	<10^	--		
MW-7	03-26-97	58.22	19.67	ND	38.55	03-26-97	<20^	<20^	<20^	<20^	--		
MW-7	05-20-97	58.22	20.18	ND	38.04	05-20-97	<10^	<10^	<10^	<10^	--		
MW-7	08-18-97	58.22	22.21	ND	36.01	08-18-97	<10^	<10^	<10^	<10^	--		
MW-7	11-17-97	58.22	20.85	ND	37.37	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-7	12-02-99	58.22	20.92	ND	37.30	12-02-99	Not sampled: not on sampling schedule						
MW-8	03-10-95	53.65	23.60	ND	30.05	03-10-95	<1	<1	--	<1	--		
MW-8	06-05-95	53.65	23.48	ND	30.17	06-05-95	<1	<1	--	<1	--		
MW-8	08-29-95	53.65	26.44	ND	27.21	08-29-95	<1	<1	--	<1	--		
MW-8	11-16-95	53.65	28.90	ND	24.75	11-16-95	<1	<1	--	<1	--		
MW-8	02-28-96	53.65	22.16	ND	31.49	02-28-96	3	<1	<1	<1	<1		
MW-8	05-28-96	53.65	22.62	ND	31.03	05-28-96	<1	<1	<1	<1	--		
MW-8	08-19-96	53.65	26.70	ND	26.95	08-21-96	<1	<1	<1	<1	--		
MW-8	11-21-96	53.65	28.16	ND	25.49	11-21-96	7	<1	<1	<1	--		
MW-8	03-26-97	53.65	22.42	ND	31.23	03-26-97	<1	<1	<1	<1	--		
MW-8	05-20-97	53.65	24.84	ND	28.81	05-20-97	<0.5	<0.5	<0.5	<0.5	--		
MW-8	08-18-97	53.65	28.03	ND	25.62	08-18-97	<5	<5	<5	--	--		
MW-8	11-17-97	53.65	29.16	ND	24.49	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
MW-8	12-02-99	53.65	28.07	ND	25.58	12-02-99	Not sampled: not on sampling schedule						

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Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well	Date	TOC Elevation	Depth to Water	FP Thickness	Groundwater Elevation	Date	Tetra- chloro- ethene (PCE)	Tetra- chloro- ethene (TCE)	trans- 1,2- Dichloro- ethene	cis-1,2- Dichloro- ethene	Freon 12	Dissolved Oxygen	Purged/ Not Purge
Number	Gauged	(ft-MSL)	(feet)	(ft-MSL)	(ft-MSL)	Sampled	µg/L	µg/L	µg/L	µg/L	µg/L	(mg/l)	(P/NP)
RW-1	03-10-95	56.32	26.48	Sheen	29.84	03-10-95	260	<5	--	<5	--		
RW-1	06-05-95	56.32	26.20	ND	30.12	06-05-95	59	<1	--	<1	--		
RW-1	08-29-95	56.32	28.98	ND	27.34	08-29-95	570	<5	--	<5	--		
RW-1	11-16-95	56.32	31.34	ND	24.98	11-16-95	140	<1	--	<1	<1		
RW-1	02-28-96	56.32	25.12	ND	31.20	02-28-96	6	<1	<1	<1	--		
RW-1	05-28-96	56.32	25.26	ND	31.06	05-28-96	12	<1	<1	<1	--		
RW-1	08-19-96	56.32	28.51	ND	27.81	08-21-96	100	<1	<1	<1	--		
RW-1	11-21-96	56.32	30.65	ND	25.67	11-21-96	190	1	<1	<1	--		
RW-1	03-26-97	56.32	25.15	ND	31.17	03-26-97	6	<1	<1	<1	--		
RW-1	05-20-97	56.32	27.44	ND	28.88	05-20-97	5.3	<0.5	<0.5	<0.5	--		
RW-1	08-18-97	56.32	30.46	ND	25.86	08-18-97	46	<5	<5	--	--		
RW-1	11-17-97	56.32	32.16	ND	24.16	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
RW-1	12-02-99	56.32	30.54	ND	25.78	12-02-99	Not sampled: not on sampling schedule						
WGR-3	03-10-95	NR	15.20	ND	NR	03-11-95	<1	<1	--	<1	--		
WGR-3	06-05-95	NR	19.25	ND	NR	06-05-95	<1	<1	--	<1	--		
WGR-3	08-29-95	NR	21.41	ND	NR	08-29-95	<1	<1	--	<1	--		
WGR-3	11-16-95	NR	22.50	ND	NR	11-16-95	<1	<1	--	<1	<1		
WGR-3	02-28-96	NR	14.90	ND	NR	02-28-96	<1	<1	<1	<1	--		
WGR-3	05-28-96	NR	18.33	ND	NR	05-28-96	<1	<1	<1	<1	--		
WGR-3	08-19-96	NR	21.38	ND	NR	08-19-96	<1	<1	<1	<1	--		
WGR-3	11-21-96	NR	18.70	ND	NR	11-21-96	<1	<1	<1	<1	--		
WGR-3	03-26-97	NR	18.98	ND	NR	03-26-97	<1	<1	<1	<1	--		
WGR-3	05-20-97	NR	19.70	ND	NR	05-20-97	<0.5	<0.5	<0.5	<0.5	--		

Table 1
Historical Groundwater Elevation and Analytical Data
Halogenated Volatile Organic Compounds (EPA method 8010 or 8240)
1995-Present**

ARCO Service Station 276
10600 MacArthur Boulevard, Oakland, California

Well	Date	TOC Elevation	Depth to Water	FP Thickness	Groundwater Elevation	Date	Tetra- chloro- ethene (PCE)	Tetra- chloro- ethene (TCE)	trans- 1,2- Dichloro- ethene	cis-1,2- Dichloro- ethene	Freon 12	Dissolved Oxygen	Purged/ Not Purged
Number	Gauged	(ft-MSL)	(feet)	(ft-MSL)	(ft-MSL)	Sampled	µg/L	µg/L	µg/L	µg/L	µg/L	(mg/l)	(P/NP)
WGR-3	08-18-97	NR	21.81	ND	NR	08-18-97	<5	<5	<5	--	--		
WGR-3	11-17-97	NR	20.42	ND	NR	11-17-97	Not analyzed for Halogenated Volatile Organic Compounds						
WGR-3	12-02-99	NR	20.58	ND	NR	12-02-99	Not sampled: not on sampling schedule						

TOC: Top of Casing

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

µg/L: micrograms per liter

ND: none detected

NR: not reported; data not available or not measurable

--: not analyzed or not applicable

*: analyzed by EPA method 8021B

^: method reporting limit was raised due to: (1) high analyte concentration requiring sample dilution, or (2) matrix interference

^^: floating product entered the well during purging

** : For previous historical groundwater elevation and analytical data please refer to *Fourth Quarter 1995 Groundwater Monitoring Results and Remediation System Performance Evaluation Report, Retail Service Station 10600 and 10700 MacArthur Boulevard, Oakland, California, (EMCON, March 22, 1996).*

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

12/08/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #0276, Oakland, CA
Work Order Number:	MMK0358
Global ID:	T0600100082
Lab Report Number:	MMK0358120120031818

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MMK03581201200 MW-1 31818		MMK035801	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-1 31818		MMK035801	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-2 31818		MMK035802	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-2 31818		MMK035802	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-3 31818		MMK035803	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-3 31818		MMK035803	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-4 31818		MMK035804	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-4 31818		MMK035804	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-5 31818		MMK035805	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-5 31818		MMK035805	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-6 31818		MMK035806	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/22/03	3K21006	1	
MMK03581201200 MW-6 31818		MMK035806	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/22/03	3K21006	1	
MMK03581201200 MW-7 31818		MMK035807	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/22/03	3K21006	1	
MMK03581201200 MW-7 31818		MMK035807	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/22/03	3K21006	1	
MMK03581201200 MW-8 31818		MMK035808	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-8 31818		MMK035808	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 RW-1 31818		MMK035809	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 RW-1 31818		MMK035809	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 WGR-3 31818		MMK035810	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 WGR-3 31818		MMK035810	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
		3K21006BSD1	WQ	BD1	8260TPH	SW5030B	//	11/21/03	11/22/03	3K21006	1	

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
		3K21006BSD1	WQ	BD1	SW8260B	SW5030B	//	11/21/03	11/22/03	3K21006	1
		3K21006BSD2	WQ	BD2	8260TPH	SW5030B	//	11/21/03	11/22/03	3K21006	1
		3K21006BS1	WQ	BS1	8260TPH	SW5030B	//	11/21/03	11/22/03	3K21006	1
		3K21006BS1	WQ	BS1	SW8260B	SW5030B	//	11/21/03	11/22/03	3K21006	1
		3K21006BS2	WQ	BS2	8260TPH	SW5030B	//	11/21/03	11/22/03	3K21006	1
		3K21006BLK1	WQ	LB1	8260TPH	SW5030B	//	11/21/03	11/21/03	3K21006	1
		3K21006BLK1	WQ	LB1	SW8260B	SW5030B	//	11/21/03	11/21/03	3K21006	1

EDFSAMP: Error Summary Log

12/08/03

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

EDFTEST: Error Summary Log

12/08/03

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

EDFRES: Error Summary Log

12/08/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3K21006BLK1	LB1	WQ	SW8260B	PR	11/21/03	1	FC113

EDFQC: Error Summary Log

12/08/03

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

EDFCL: Error Summary Log

12/08/03

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

Error Summary Log

12/08/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #0276, Oakland, CA
Work Order Number:	MMK0358
Global ID:	T0600100082
Lab Report Number:	MMK0358120120031818

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MMK03581201200 MW-1 31818		MMK035801	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-1 31818		MMK035801	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-2 31818		MMK035802	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-2 31818		MMK035802	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-3 31818		MMK035803	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-3 31818		MMK035803	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-4 31818		MMK035804	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-4 31818		MMK035804	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-5 31818		MMK035805	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-5 31818		MMK035805	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-6 31818		MMK035806	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/22/03	3K21006	1	
MMK03581201200 MW-6 31818		MMK035806	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/22/03	3K21006	1	
MMK03581201200 MW-7 31818		MMK035807	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/22/03	3K21006	1	
MMK03581201200 MW-7 31818		MMK035807	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/22/03	3K21006	1	
MMK03581201200 MW-8 31818		MMK035808	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 MW-8 31818		MMK035808	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 RW-1 31818		MMK035809	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 RW-1 31818		MMK035809	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 WGR-3 31818		MMK035810	W	CS	8260TPH	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
MMK03581201200 WGR-3 31818		MMK035810	W	CS	SW8260B	SW5030B	11/07/03	11/21/03	11/21/03	3K21006	1	
		3K21006BSD1	WQ	BD1	8260TPH	SW5030B	/ /	11/21/03	11/22/03	3K21006	1	

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