URS

RO-494

February 24, 2003

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**Re: Fourth Quarter 2002 Groundwater Monitoring Report**
**ARCO Service Station # 2111**
**1156 Davis Street**
**San Leandro, California**
**URS Project #38486093**

Dear Ms. Chu:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Fourth Quarter 2002 Groundwater Monitoring Report* for ARCO Service Station #2111, located at 1156 Davis Street, San Leandro, California.

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

Sincerely,

**URS CORPORATION**

REGISTERED PROFESSIONAL ENGINEER
AMY P. BRECKENRIDGE
No. C057141
Exp. 12/31/03
CIVIL
STATE OF CALIFORNIA

Scott Robinson
Project Manager

Amy P. Breckenridge, P.E.
Portfolio Manager

Enclosure: Fourth Quarter 2002 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

URS Corporation
500 12th Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
Fax: 510.874.3268

Atlantic Richfield Company
(a BP affiliated company)

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

February 27, 2003

Re: Fourth Quarter 2002 Groundwater Monitoring Report
ARCO Station #2111
1156 Davis Street
San Leandro, CA

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

**REPORT**

# FOURTH QUARTER 2002 GROUNDWATER MONITORING

## ARCO SERVICE STATION #2111
## 1156 DAVIS STREET
## SAN LEANDRO, CALIFORNIA

*Prepared for*
Atlantic Richfield Company

February 24, 2003

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

38486093

Date: February 24, 2003

Quarter: 4Q 02

## ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Former Facility No.: 2111 Address: 1156 Davis Street, San Leandro, California

Atlantic Richfield Co. Environmental Engineer: Paul Supple

Consulting Co./Contact Person: URS Corporation / Scott Robinson

Consultant Project No.: 38486093

Primary Agency: ACHCSA

**WORK PERFORMED THIS QUARTER (Fourth – 2002):**

1. Performed fourth quarter 2002 groundwater monitoring event on October 9, 2002.
2. Prepared third quarter 2002 groundwater monitoring report.

**WORK PROPOSED FOR NEXT QUARTER (First – 2003):**

1. Perform first quarter 2003 groundwater monitoring event.
2. Prepare and submit fourth quarter 2002 groundwater monitoring report.

| | |
|---|---|
| Current Phase of Project: | GW monitoring/sampling |
| Frequency of Groundwater Sampling: | Wells MW-1 through MW-7; quarterly |
| Frequency of Groundwater Monitoring: | Quarterly |
| Is Free Product (FP) Present On-Site: | FP in MW-2 |
| Cumulative FP Recovered to Date: | Approximately 1.98 gallons |
| Current Remediation Techniques: | Bailing free product as needed |
| Approximate Depth to Groundwater: | 15.51 (MW-6) to 18.27 (MW-1) |
| Groundwater Gradient (direction): | West |
| Groundwater Gradient (magnitude): | 0.002 feet per foot |

**DISCUSSION:**

TPH-g was detected in three of the six wells sampled this quarter at concentrations ranging from 240 µg/L (MW-1) to 110,000 µg/L (MW-7). Benzene was detected in three wells at concentrations ranging from 2.2 µg/L (MW-4) to 1,500 µg/L (MW-7). MTBE was detected in five wells by EPA Method 8020 at concentrations ranging from 20 µg/L (MW-4) to 97,000 µg/L (MW-7). MTBE was detected in five wells by EPA Method 8260 at concentrations ranging from 29 µg/L (MW-4) to 120,000 µg/L (MW-7). FP was detected in MW-2. This well will be checked monthly for free product and bailed if necessary.

**RECOMMENDATIONS:**

For wells MW-1 and MW-3, we recommend reducing the sampling frequency from quarterly to semi-annually. These wells are both cross-gradient and have stable readings. For wells MW-4 and MW-6, we recommend

reducing the sampling from quarterly to annually. Both wells are up-gradient with low to no detections of the constituents of concern. Furthermore, as stated in the Corrective Action Plan submitted in October 2002, we recommend the installation of more down-gradient wells.

**ATTACHMENTS:**

- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – October 10, 2002
- 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

**Table 1**
**Groundwater Elevation and Analytical Data**

ARCO Service Station # 2111
1156 Davis Street
San Leandro, California

| Well Number | Date Sampled | | Top of Riser Elevation (feet, MSL) | Depth to Groundwater (feet, TOC) | Groundwater Elevation (feet, MSL) | TPH as Gasoline (mg/L) | Benzene (mg/L) | Toluene (mg/L | Ethyl-benzene (mg/L) | Total Xylenes (mg/L) | MTBE (8020) (mg/L) | MTBE (8260) (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 06/26/00 | | 39.60 | 16.46 | 23.14 | NA | NA | NA | NA | NA | NA | NA |
| | 07/20/00 | | | 16.89 | 22.71 | 360 | 110 | <0.5 | <0.5 | 2.7 | 2,100 | NA |
| | 09/19/00 | | | 17.62 | 21.98 | 290 | 76 | <0.5 | <0.5 | 2.3 | 1,500 | NA |
| | 12/21/00 | | | 17.39 | 22.21 | 257 | 64 | 2.89 | 1.31 | 4.57 | 1,080 | 1,060 |
| | 03/13/01 | | | 15.7 | 23.90 | <500 | 52.5 | <5.0 | <5.0 | <5.0 | 1,430 | 1,370 |
| | 09/18/01 | | | 18.24 | 21.36 | <500 | 64 | 7.3 | <5.0 | 52 | 810 | 1,100 |
| | 12/28/01 | | | 15.95 | 23.65 | <500 | <5.0 | <5.0 | 5.00 | 22 | 1,200 | 1,100 |
| | 03/14/02 | | | 16.01 | 23.59 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 34 | 40 |
| | 04/23/02 | | | 15.43 | 24.17 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 30 | NA |
| | 07/17/02 | NP | | 17.50 | 22.10 | <50 | 1.2 | <0.50 | <0.50 | <0.50 | 29 | NA |
| | **10/09/02** | | | **18.27** | **21.33** | **240[c]** | **4.9** | **<1.0** | **4.1** | **7.0** | **290** | **310** |
| MW-2 | 06/26/00 | | 37.99 | 14.60 | 23.39[a] | NA | NA | NA | NA | NA | NA | NA |
| | 07/20/00 | | | 15.14 | 22.85 | 95,000 | 2,300 | 18,000 | 2,500 | 19,000 | 13,000 | NA |
| | 09/19/00 | | | 15.95 | 22.04 | 63,000 | 1,200 | 6,300 | 2,000 | 14,000 | 19,000 | NA |
| | 12/21/00 | | | 15.60 | 22.39 | 45,900 | | 2,130 | 1,160 | 9,460 | 22,400 | 24,700 |
| | 12/21/00[b] | | | NM | NC | 5,010 | 360 | 189 | 213 | 626 | 54,300 | 89,200 |
| | 03/13/01 | | | 13.77 | 23.9 | 3,650 | 98.1 | <5.0 | <5.0 | 6.42 | 3,590 | 3,260 |
| | 3/13/2001[b] | | | NM | NC | <20,000 | 525 | 466 | 408 | 1,460 | 91,700 | 76,000 |
| | 9/18/2001[a] | | | 16.86 | 21.13 | NS | NS | NS | NS | NS | NS | NS |
| | 12/28/01 | | | 14.28 | 23.71 | 31,000 | 1,500 | 3,800 | 1,300 | 4,800 | 9,300 | 8,800 |
| | 03/14/02 | | | 14.15 | 23.84 | 1,800 | 25 | 43 | 43 | 270 | 990 | 960 |
| | 04/23/02 | | | 13.60 | 24.39 | 9,000 | 220 | 110 | 470 | 2,500 | 8,500 | NA |
| | 07/17/02 | NP | SHEEN | 15.75 | 22.24 | 74,000 [c] | 280 | 290 | 820 | 10,000 | 19,000 | NA |
| | **10/9/2002 [g]** | **NP** | | **16.69** | **21.30** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** |

**Table 1**
**Groundwater Elevation and Analytical Data**

ARCO Service Station # 2111
1156 Davis Street
San Leandro, California

| Well Number | Date Sampled | | Top of Riser Elevation (feet, MSL) | Depth to Groundwater (feet, TOC) | Groundwater Elevation (feet, MSL) | TPH as Gasoline (mg/L) | Benzene (mg/L) | Toluene (mg/L | Ethyl-benzene (mg/L) | Total Xylenes (mg/L) | MTBE (8020) (mg/L) | MTBE (8260) (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | 06/26/00 | | 39.32 | 15.96 | 23.36 | NA | NA | NA | NA | NA | NA | NA |
| | 07/20/00 | | | 16.42 | 22.90 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | 130 | NA |
| | 09/19/00 | | | 17.18 | 22.14 | 190 | 17 | <0.5 | 1.4 | 2.4 | 160 | NA |
| | 12/21/00 | | | 16.97 | 22.35 | 187 | 17.8 | <0.5 | 2.47 | 2.5 | 143 | 125 |
| | 03/13/01 | | | 15.17 | 24.15 | 72.4 | 2.83 | <0.5 | <0.5 | <0.5 | 126 | 122 |
| | 09/18/01 | | | 17.81 | 21.51 | 140 | 6.4 | <0.5 | 3.5 | 1.6 | 110 | 75 |
| | 12/28/01 | | | 15.44 | 23.88 | 130 | 5.9 | <0.5 | 0.99 | 0.55 | 90 | 63 |
| | 03/14/02 | | | 15.50 | 23.82 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 100 | 88 |
| | 04/23/02 | | | 14.96 | 24.36 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 77 | NA |
| | 07/17/02 | NP | | 17.09 | 22.23 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 47 | NA |
| | **10/09/02** | **NP** | | **17.87** | **21.45** | **<50** | **<0.50** | **<0.50** | **<0.50** | **<0.50** | **26** | **29** |
| MW-4 | 06/26/00 | | 38.10 | 14.59 | 23.51 | NA | NA | NA | NA | NA | NA | NA |
| | 07/20/00 | | | 15.04 | 23.06 | 97 | 7.9 | <0.5 | <0.5 | 1.1 | 51 | NA |
| | 09/19/00 | | | 15.83 | 22.27 | 110 | 7.0 | <0.5 | <0.5 | <1.0 | 60 | NA |
| | 12/21/00 | | | 15.59 | 22.51 | 120 | 5.6 | <0.5 | 1.72 | <0.5 | 46.3 | 48.6 |
| | 03/13/01 | | | 13.73 | 24.37 | 76 | 0.796 | <0.5 | <0.5 | <0.5 | 53.7 | 50.0 |
| | 09/18/01 | | | 16.50 | 21.60 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 25 | 26.0 |
| | 12/28/01 | | | 14.03 | 24.07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 15 | 11.0 |
| | 03/14/02 | | | 14.10 | 24.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 31 | 28 |
| | 04/23/02 | | | 13.57 | 24.53 | <50 | 3 | <0.5 | <0.5 | <0.5 | 42 | NA |
| | 07/17/02 | NP | | 15.76 | 22.34 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 16 | NA |
| | **10/09/02** | **NP** | | **16.59** | **21.51** | **<50** | **2.2** | **<0.50** | **<0.50** | **<0.50** | **20** | **23** |

**Table 1**
**Groundwater Elevation and Analytical Data**

ARCO Service Station # 2111
1156 Davis Street
San Leandro, California

| Well Number | Date Sampled | | Top of Riser Elevation (feet, MSL) | Depth to Groundwater (feet, TOC) | Groundwater Elevation (feet, MSL) | TPH as Gasoline (mg/L) | Benzene (mg/L) | Toluene (mg/L | Ethyl-benzene (mg/L) | Total Xylenes (mg/L) | MTBE (8020) (mg/L) | MTBE (8260) (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5 | 06/26/00 | | 37.21 | 14.27 | 22.94 | NA | NA | NA | NA | NA | NA | NA |
| | 07/20/00 | | | 14.69 | 22.52 | 55 | <0.5 | <0.5 | <0.5 | <1.0 | 14,000 | NA |
| | 09/19/00 | | | 15.36 | 21.85 | 54 | <0.5 | <0.5 | <0.5 | <1.0 | 13,000 | NA |
| | 12/21/00 | | | 15.15 | 22.06 | 72.9 | 2.51 | <0.5 | <0.5 | 0.961 | 19,200 | 21,200 |
| | 03/13/01 | | | 13.5 | 23.71 | <500 | <5 | <5 | <5 | <5 | 15,900 | 20,000 |
| | 09/18/01 | | | 15.94 | 21.27 | <10,000 | <100 | <100 | <100 | <1,000 | 22,000 | 20,000 |
| | 12/28/01 | | | 13.45 | 23.76 | <10,000 | <100 | <100 | <100 | <100 | 10,000 | 10,000 |
| | 03/14/02 | | | 13.82 | 23.39 | <5,000 | <50 | <50 | <50 | <50 | 7,100 | 7,700 |
| | 04/23/02 | | | 13.25 | 23.96 | <5,000 | <50 | <50 | <50 | <50 | 8,900 | NA |
| | 07/17/02 | NP | | 15.27 | 21.94 | 7,900 [d] | <50 | <50 | <50 | <50 | 13,000 | NA |
| | **10/09/02** | **NP** | | **16.02** | **21.19** | **2,400[e]** | **<20** | **<20** | **<20** | **<20** | **7,300** | **7,500** |
| MW-6 | 06/26/00 | | 37.11 | 13.46 | 23.65 | NA | NA | NA | NA | NA | NA | NA |
| | 07/20/00 | | | 13.94 | 23.17 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <3.0 | NA |
| | 09/19/00 | | | 14.41 | 22.70 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <3.0 | NA |
| | 12/21/00 | | | 14.53 | 22.58 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | NA |
| | 03/13/01 | | | 12.67 | 24.44 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | NA |
| | 09/18/01 | | | 15.42 | 21.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | <2.0 |
| | 12/28/01 | | | 12.96 | 24.15 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 12 | <0.5 |
| | 03/14/02 | | | 12.98 | 24.13 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | NA |
| | 04/23/02 | | | 12.44 | 24.67 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3 | NA |
| | 07/17/02 | NP | | 14.65 | 22.46 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA |
| | **10/09/02** | **NP** | | **15.51** | **21.60** | **<50** | **<0.50** | **<0.50** | **<0.50** | **<0.50** | **<2.5** | **NA** |

**Table 1**
**Groundwater Elevation and Analytical Data**

ARCO Service Station # 2111
1156 Davis Street
San Leandro, California

| Well Number | Date Sampled | | Top of Riser Elevation (feet, MSL) | Depth to Groundwater (feet, TOC) | Groundwater Elevation (feet, MSL) | TPH as Gasoline (mg/L) | Benzene (mg/L) | Toluene (mg/L | Ethyl-benzene (mg/L) | Total Xylenes (mg/L) | MTBE (8020) (mg/L) | MTBE (8260) (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7 | 06/26/00 | | 38.68 | 14.34 | 24.34 | NA | NA | NA | NA | NA | NA | NA |
| | 07/20/00 | | | 15.26 | 23.42 | 14,000 | 5.4 | <0.5 | 2.8 | 5.9 | 71,000 | NA |
| | 09/19/00 | | | 15.70 | 22.98 | 8,400 | 420 | 38 | 470 | 220 | 5,600 | NA |
| | 12/21/00 | | | 16.02 | 22.66 | NS[a] | NS[a] | NS[a] | NS[a] | NS[a] | NS[a] | NS[a] |
| | 03/13/01 | | | 14.18 | 24.50 | <2,000 | 154 | 63 | 46.3 | 127 | 175,000 | 160,000 |
| | 09/18/01 | | | 17.02 | 21.66 | <100,000 | 1,900 | <1,000 | <1,000 | 2,800 | 190,000 | 370,000 |
| | 12/28/01 | | | 14.81 | 23.87 | <20,000 | <200 | <200 | <200 | <200 | 84,000 | 72,000 |
| | 03/14/02 | | | 14.60 | 24.08 | <50,000 | <500 | <500 | <500 | <500 | 85,000 | 85,000 |
| | 04/23/02 | | | 13.94 | 24.74 | <20,000 | 530 | 200 | 220 | 800 | 67,000 | NA |
| | 07/17/02 | NP | | 16.27 | 22.41 | 26,000 [d] | 720 | <250 | <250 | 860 | 120,000 | NA |
| | **10/09/02** | **NP** | | **17.16** | **21.52** | **110,000[d]** | **1,500** | **4,400** | **820** | **5,400** | **97,000** | **120,000** |

TPH = Total Petroleum Hydrocarbons
MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted
mg/L = Micrograms per liter
NM = Not measured
NC = Not calculated
MSL = Mean sea level
TOC = Top of casing
< = Not detected at or above specified laboratory method detection limit
a = Product sheen noted
b = Well was sampled after batch extraction event.
c = Chromatogram Pattern: Gasoline C6-C10
d = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel
e = Discrete peak @C6-C7
f = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
g = Well not sampled due to the detection of free product.

Source : The data within this table collected prior to July 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**

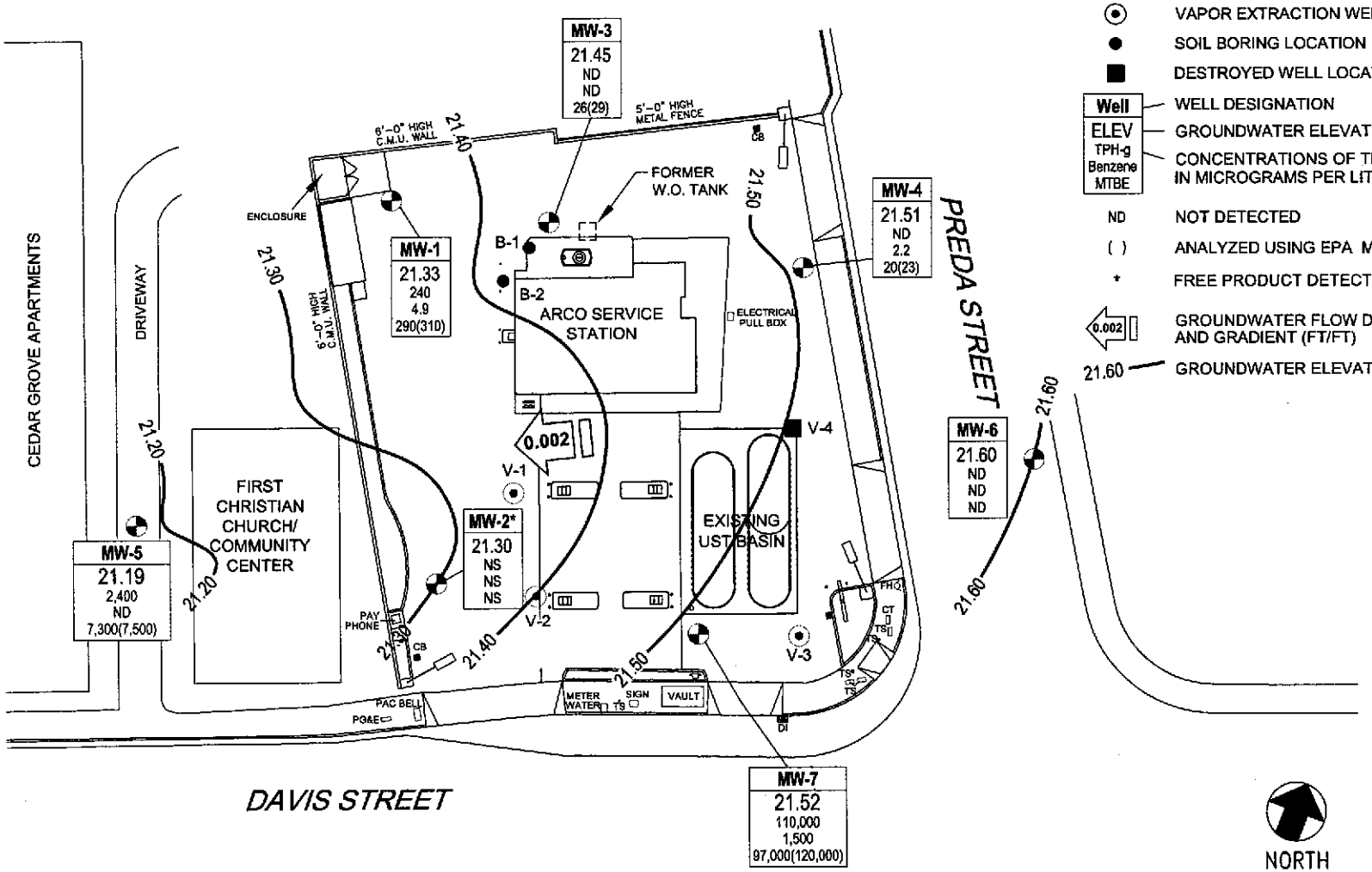
**Groundwater Flow Direction and Gradient**

ARCO Service Station # 2111
1156 Davis Street
San Leandro, California

| Date Measured | Average Flow Direction | Average Hydraulic Gradient |
|---|---|---|
| 07/20/00 | West-Northwest | 0.006 |
| 09/19/00 | West-Northwest | 0.004 |
| 12/21/00 | West-Northwest | 0.004 |
| 03/13/01 | West-Northwest | 0.005 |
| 05/30/01 | West-Northwest | 0.004 |
| 09/18/01 | West-Northwest | 0.003 |
| 12/28/01 | West-Northwest | 0.003 |
| 03/14/02 | West | 0.004 |
| 04/23/02 | West | 0.006 |
| 07/17/02 | West | 0.003 |
| **10/09/02** | **West** | **0.002** |

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

X:\x_env\waste\BP GEM\Sites\Scott Robinson\Paul Supple\2111\Reports\Monitoring\Qtr. 4, 2002\Drawings\GWEC-AS_10-10.dwg




**LEGEND**

- MONITORING WELL LOCATION
- VAPOR EXTRACTION WELL LOCATION
- SOIL BORING LOCATION
- DESTROYED WELL LOCATION
- Well — WELL DESIGNATION
- ELEV — GROUNDWATER ELEVATION (FT/MSL)
- TPH-g / Benzene / MTBE — CONCENTRATIONS OF TPH-g, BENZENE & MTBE IN MICROGRAMS PER LITER (µg/L)
- ND — NOT DETECTED
- ( ) — ANALYZED USING EPA METHOD 8260
- * — FREE PRODUCT DETECTED, WELL NOT SAMPLED
- 0.002 — GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
- 21.60 — GROUNDWATER ELEVATION CONTOUR (FT/MSL)

NORTH

0 40 80

SCALE IN FEET

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

| | | | |
|---|---|---|---|
| URS | Project No. 38465919<br>Arco Service Station 2111<br>1156 Davis Street<br>San Leandro, California | GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP<br>Fourth Quarter 2002 (October 10, 2002) | FIGURE<br>1 |

# ATTACHMENT A

# FIELD PROCEDURES AND FIELD DATA SHEETS

# FIELD PROCEDURES

## Sampling Procedures

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

# WELL GAUGING DATA

Project # 021009-BA1 Date 10/09/02 Client Arco 2111

Site 1156 Davis St, San Leandro

| Well ID | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or TOC | |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 4 | | | | | 18.27* | 26.22 | TOC | ORCs NPE @ 12.5' |
| MW-2 | 4 | | | | | 16.69 | 26.68 | | NPE 12' |
| MW-3 | 4 | | | | | 17.87 | 26.65 | | NPE 11.9' |
| MW-4 | 4 | | | | | 16.59 | 21.63 | | NPE 10' |
| MW-5 | 2 | | | | | 16.02* | 23.85 | | ORCs NPE 9.4' |
| MW-6 | 2 | | | | | 15.51 | 24.82 | | NPE 10' |
| MW-7 | 4 | | | | | 17.16 | 27.18 | | NPE 12' |
| | | | | | | | | | |

* gauged w/ ORCs in well.

# ARCO / BP WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 021009-BA1 | Station # 2111 |
| Sampler: BRIAN ALLORD | Date: 10/09/02 |
| Well I.D.: MW-1 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth: 26.22 | Depth to Water: 18.27 |
| 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: Bailer / Disposable Bailer / ~~Middleburg~~ / ~~Electric Submersible~~ / ~~Extraction Pump~~ / Other: ____

NO PURGE

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

Top of Screen: 12.5'

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

| 1 Case Volume (Gals.) | X | Specified Volumes | = | Calculated Volume |
|---|---|---|---|---|
| Ø | X | 3 | = | Ø Gals. |

| Time | Temp (°F) | pH | Conductivity (mS or (µS)) | Gals. Removed | Observations |
|---|---|---|---|---|---|
| 0910 | 67.7 | 6.5 | 716 | Ø | clear |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | |
|---|---|---|---|
| Did well dewater? Yes (No) | | Gallons actually evacuated: Ø | |
| Sampling Time: 0910 | | Sampling Date: 10/09/02 | |
| Sample I.D.: MW-1 | | Laboratory: Pace (Sequoia) Other____ | |
| Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: | | | |
| D.O. (if req'd): | Pre-purge: ____ mg/L | (Post-purge:) | 1.2 mg/L |
| O.R.P. (if req'd): | Pre-purge: ____ mV | Post-purge: | ____ mV |

# ARCO / BP WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 024009-BA1 | Station # 2111 |
| Sampler: BRIAN ALLORD | Date: 10/09/02 |
| Well I.D.: MW-2 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth: 26.68 | Depth to Water: 16.69 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

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

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ____ — NO PURGE

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

Top of Screen: 12'

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

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

| Time | Temp (°F) | pH | Conductivity (mS or µS) | Gals. Removed | Observations |
|---|---|---|---|---|---|
| 1015 | | | | Ø | while sampling |
| | FREE PRODUCT ENCOUNTERED - NO SAMPLE TAKEN | | | | |
| | | Not able to | | gauge product | |
| | | | | | |
| | | | | | |

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

Sampling Time: ~~1015~~ Sampling Date: ~~10/09/02~~

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

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

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

# ARCO / BP WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 02009-BA1 | Station # 2111 |
| Sampler: BRIAN ALLORD | Date: 10/09/02 |
| Well I.D.: MW-3 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth: 26.65 | Depth to Water: 17.87 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

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

Purge Method: Bailer / ~~Disposable Bailer~~ / Middleburg / ~~Electric Submersible~~ / ~~Extraction Pump~~ / Other: ____ — No Purge

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

Top of Screen: 11.9'

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

| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume |
|---|---|---|---|---|
| Ø | X | 3 | = | Ø Gals. |

| Time | Temp (°F) | pH | Conductivity (mS or (µS)) | Gals. Removed | Observations |
|---|---|---|---|---|---|
| 0920 | 69.9 | 7.2 | 667 | Ø | clear |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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

Sampling Time: 0920 Sampling Date: 10/09/02

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

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

| | | | | | |
|---|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | | mg/L | Post-purge: | 1.3 mg/L |
| O.R.P. (if req'd): | Pre-purge: | | mV | Post-purge: | mV |

# ARCO / BP WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 024009-BA1 | Station # 2111 |
| Sampler: BRIAN ALLORD | Date: 10/09/02 |
| Well I.D.: MW-4 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth: 21.63 | Depth to Water: 16.59 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

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

Purge Method: Bailer / ~~Disposable Bailer~~ / ~~Middleburg~~ / ~~Electric Submersible~~ / ~~Extraction Pump~~ / Other: ____

NO PURGE

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

Top of Screen: 10'

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

| 1 Case Volume (Gals.) | x | Specified Volumes | = | Calculated Volume |
|---|---|---|---|---|
| Ø | x | 3 | = | Ø Gals. |

| Time | Temp (°F) | pH | Conductivity (mS or µS) | Gals. Removed | Observations |
|---|---|---|---|---|---|
| 0850 | 70.1 | 7.1 | 719 | Ø | clear |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Did well dewater? Yes (No)

Gallons actually evacuated: Ø

Sampling Time: 0850

Sampling Date: 10/09/02

Sample I.D.: MW-4

Laboratory: Pace (Sequoia) Other____

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

| | | | | | |
|---|---|---|---|---|---|
| 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 #: 024009-BA1 | Station # 2111 |
| Sampler: Brian Allord | Date: 10/09/02 |
| Well I.D.: MW-5 | Well Diameter: (2) 3 4 6 8 ____ |
| Total Well Depth: 23.85 | Depth to Water: 16.02 |
| 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: Bailer ~~Disposable Bailer~~ ~~Middleburg~~ ~~Electric Submersible~~ ~~Extraction Pump~~ Other: ____ (No Purge)

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

Top of Screen: 9.41'

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

| 1 Case Volume (Gals.) | X | Specified Volumes | = | Calculated Volume |
|---|---|---|---|---|
| Ø | X | 3 | = | Ø Gals. |

| Time | Temp (°F) | pH | Conductivity (mS or µS) | Gals. Removed | Observations |
|---|---|---|---|---|---|
| 0940 | 68.2 | 6.7 | 685 | Ø | clear |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | |
|---|---|---|---|
| Did well dewater? Yes (No) | | Gallons actually evacuated: Ø | |
| Sampling Time: 0940 | | Sampling Date: 10/09/02 | |
| Sample I.D.: MW-5 | | Laboratory: Pace (Sequoia) Other____ | |
| Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: | | | |
| D.O. (if req'd): | Pre-purge: ____ mg/L | Post-purge: | 1.2 mg/L |
| O.R.P. (if req'd): | Pre-purge: ____ mV | Post-purge: | ____ mV |

# ARCO / BP WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 024009-BA1 | Station # 2111 |
| Sampler: Brian Allord | Date: 10/09/02 |
| Well I.D.: MW-6 | Well Diameter: (2) 3 4 6 8 ____ |
| Total Well Depth: 24.82 | Depth to Water: 15.51 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

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

Purge Method: Bailer / ~~Disposable Bailer~~ / Middleburg / Electric Submersible / ~~Extraction Pump~~ / Other: _____

No Purge

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

Top of Screen: 10'

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

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

| Time | Temp (°F) | pH | Conductivity (mS or (µS)) | Gals. Removed | Observations |
|---|---|---|---|---|---|
| 0835 | 71.0 | 7.1 | 842 | Ø | semi-cloudy brown |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Did well dewater? Yes (No)

Gallons actually evacuated: Ø

Sampling Time: 0835

Sampling Date: 10/09/02

Sample I.D.: MW-6

Laboratory: Pace (Sequoia) Other_____

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

| | | | | | |
|---|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | 1.3 | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | | mV |

# ARCO / BP WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 024009-BA1 | Station # 2111 |
| Sampler: BRIAN ALLORD | Date: 10/09/02 |
| Well I.D.: MW-7 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth: 27.18 | Depth to Water: ~~17.16~~ |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

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

Purge Method: Bailer ~~Disposable Bailer~~ Middleburg ~~Electric Submersible~~ ~~Extraction Pump~~ Other: ____

NO PURGE

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

Top of Screen: 12'

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

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

| Time | Temp (°F) | pH | Conductivity (mS or (µS)) | Gals. Removed | Observations |
|---|---|---|---|---|---|
| 1000 | 70.4 | 6.8 | 1122 | Ø | clear mild odor |
| ~~1002~~ | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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

Sampling Time: 1000 Sampling Date: 10/09/02

Sample I.D.: MW-7 Laboratory: Pace (Sequoia) Other____

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

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | (Post-purge:) | 0.9 mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# Chain of Custody Record

**Project Name**
**BP BU/GEM CO Portfolio:**
**BP Laboratory Contract Number:**
**Requested Due Date (mm/dd/yy)** Standard

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

te: 10/09/02

l To:
Name: SEQUOIA
Address: 885 Jarvis Dr.
Morgan Hill, CA 95037

PM: Latonya Pelt
/Fax: 408-776-9600 / 408-782-6308
ort Type & QC Level: Send EDF Reports
GEM Account No.:
Bottle Order No:

BP/GEM Facility No.:
BP/GEM Facility Address: 1156 DAVIS ST, San Leandro, CA
Site ID No. ARCO 2111
Site Lat/Long:
California Global ID #: T0600101764
BP/GEM PM Contact: PAUL SUPPLE
Address:
Tele/Fax:

Consultant/Contractor: URS
Address: 500 12th St., Ste. 200
Oakland, CA 94609-4014
e-mail EDD: syed_rehan@urscorp.com
Consultant/Contractor Project No.: J5-00002111.01 00427
Consultant Tele/Fax: 510-874-1735/510-874-3268
Consultant/Contractor PM: Scott Robinson
Invoice to: Consultant/Contractor or (BP/GEM) (Circle one)
BP/GEM Work Release No: INTRIM -50277

| n No. | Sample Description | Time | Matrix: Soil/Solid | Matrix: Water/Liquid | Matrix: Sediments | Matrix: Air | Laboratory No. | No. of containers | Preservatives: Unpreserved | Preservatives: $H_2SO_4$ | Preservatives: $HNO_3$ | Preservatives: HCl | Requested Analysis: TPH-G / BTEX (8015 / 8021) | Requested Analysis: TPH-D (8015) | Requested Analysis: MTBE (8021) | Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260) | Requested Analysis: 1,2-DCA & EDB (8260) | Sample Point Lat/Long and Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-5 | 0940 | | X | | | | 6 | | | | X | X | | X | | | |
| 2 | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

| | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---|---|---|---|---|---|---|
| | | 10/9/02 | 1117 | | 10/9/02 | 1118 |

mpler's Name: Brian Arcand
mpler's Company: BLAINE TECH SERVICES
ipment Date:
ipment Method:
ipment Tracking No:

ecial Instructions: Address Invoice to BP/GEM but send to URS for approval Confirm All MTBE Hits by 8260

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

# Chain of Custody Record

Project Name
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Requested Due Date (mm/dd/yy) Standard

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

te: 10/09/02

| | |
|---|---|
| l To: | |
| Name: | SEQUOIA |
| Address: | 885 Jarvis Dr. Morgan Hill, CA 95037 |
| PM: | Latonya Pelt |
| /Fax: | 408-776-9600 / 408-782-6308 |
| ort Type & QC Level: | Send EDF Reports |
| GEM Account No.: | |
| Bottle Order No: | |

| | |
|---|---|
| BP/GEM Facility No.: | |
| BP/GEM Facility Address: | 1156 DAVIS ST, San Leandro, CA |
| Site ID No. | ARCO 2111 |
| Site Lat/Long: | |
| California Global ID #: | T0600101764 |
| BP/GEM PM Contact: | PAUL SUPPLE |
| Address: | |
| Tele/Fax: | |

| | |
|---|---|
| Consultant/Contractor: | URS |
| Address: | 500 12th St., Ste. 200 Oakland, CA 94609-4014 |
| e-mail EDD: | syed_rehan@urscorp.com |
| Consultant/Contractor Project No.: | 15-00002111.01 00427 |
| Consultant Tele/Fax: | 510-874-1735/510-874-3268 |
| Consultant/Contractor PM: | Scott Robinson |
| Invoice to: | Consultant/Contractor or (BP/GEM) (Circle one) |
| BP/GEM Work Release No: | INTRIM -50277 |

| n No. | Sample Description | Time | Matrix: Soil/Solid | Matrix: Water/Liquid | Matrix: Sediments | Matrix: Air | Laboratory No. | No. of containers | Preservatives: Unpreserved | Preservatives: $H_2SO_4$ | Preservatives: $HNO_3$ | Preservatives: HCl | Requested Analysis: TPH-G / BTEX (8015 / 8021) | Requested Analysis: TPH -D (8015) | Requested Analysis: MTBE (8021) | Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260) | Requested Analysis: 1,2-DCA & EDB (8260) | Sample Point Lat/Long and Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-1 | 0910 | | X | | | | 6 | | | | X | X | | X | | | |
| 2 | ~~MW-2~~ | — | | | | | | | | | | | | | | | | |
| 3 | MW-3 | 0920 | | X | | | | 6 | | | | X | X | | X | | | |
| 4 | MW-4 | 0950 | | X | | | | 6 | | | | X | X | | X | | | |
| 5 | MW-6 | 0835 | | X | | | | 6 | | | | X | X | | X | | | |
| 6 | MW-7 | 1000 | | X | | | | 6 | | | | X | X | | X | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

| | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---|---|---|---|---|---|---|
| mpler's Name: Brian Allgood | | 10/10/02 | 1118 | | 10/10/02 | 1118 |
| mpler's Company: Blaine Tech Services | | | | | | |
| ipment Date: | | | | | | |
| ipment Method: | | | | | | |
| ipment Tracking No: | | | | | | |

ecial Instructions: Address Invoice to BP/GEM but send to URS for approval Confirm All MTBE Hits by 8260

Temperature Blank Yes No Cooler Temperature on Receipt °F/C Trip Blank Yes No

# WELLHEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client Arco Inspection Date 10/09/02

Site Address 1156 Davis St Inspected By Brian Alcorn

| | | | |
|---|---|---|---|
| 1. Lid on box? | 6. Casing secure? | 12. Water standing in wellbox? | 15. Well cap functional? |
| 2. Lid broken? | 7. Casing cut level? | 12a. Standing above the top of casing? | 16. Can cap be pulled loose? |
| 3. Lid bolts missing? | 8. Debris in wellbox? | 12b. Standing below the top of casing? | 17. Can cap seal out water? |
| 4. Lid bolts stripped? | 9. Wellbox is too far above grade? | 12c. Water even with the top of casing? | 18. Padlock present? |
| 5. Lid seal intact? | 10. Wellbox is too far below grade? | 13. Well cap present? | 19. Padlock functional? |
| | 11. Wellbox is crushed/damaged? | 14. Well cap found secure? | |

☐ Check box if no deficiencies were found. Note below deficiencies you were able to correct.

| Well I.D. | Deficiency | Corrective Action Taken |
|---|---|---|
| MW-6 | Rusted cap/lock | Replaced 2" /#2357 |
| MW-4 | Bad cap/lock | Replaced 4" /#2357 |
| MW-3 | Bad Cap/lock | Replaced 4" /#2357 |
| MW-7 | Bad Cap/No Lock | Replaced 4" /#2357 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Note below all deficiencies that could not be corrected and still need to be corrected.

| Well I.D. | Persisting Deficiency | BTS Office assigns or defers Correction to: | Date assigned | Date corrected |
|---|---|---|---|---|
| MW-6 | Debris - Loose Dirt above casing falls into well | Contact BTS | | |
| | No Bolts Bolt Tabs Broken | If repairs are | | |
| MW-4 | Retap/Helicoil Missing one bolt | wanted. | | |
| MW-1 | Missing 2 bolts | | | |
| MW-3 | Missing 2 Bolts | | | |
| MW-7 | Missing 4 Bolts | | | |
| MW-2 | Missing 4 Bolts | | | |

# ATTACHMENT B

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

# LABORATORY PROCEDURES

## Laboratory Procedures

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

**Sequoia Analytical**

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

14 November, 2002

Scott Robinson
URS Corporation
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #2111, San Leandro, Ca
Sequoia Work Order: MLJ0430

Enclosed are the results of analyses for samples received by the laboratory on 10/10/02 17:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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

| | | |
|---|---|---|
| URS Corporation | Project: ARCO #2111, San Leandro, Ca | MLJ0430 |
| 500 12th Street, Suite 100 | Project Number: ARCO #2111, San Leandro, CA | **Reported:** |
| Oakland CA, 94607 | Project Manager: Scott Robinson | 11/14/02 06:36 |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| MW-1 | MLJ0430-01 | Water | 10/10/02 09:10 | 10/10/02 17:10 |
| MW-3 | MLJ0430-02 | Water | 10/10/02 09:20 | 10/10/02 17:10 |
| MW-4 | MLJ0430-03 | Water | 10/10/02 08:50 | 10/10/02 17:10 |
| MW-6 | MLJ0430-04 | Water | 10/10/02 08:35 | 10/10/02 17:10 |
| MW-7 | MLJ0430-05 | Water | 10/10/02 10:00 | 10/10/02 17:10 |
| MW-5 | MLJ0430-06 | Water | 10/10/02 09:40 | 10/10/02 17:10 |

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

Sequoia Analytical

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

| | | |
|---|---|---|
| URS Corporation | Project: ARCO #2111, San Leandro, Ca | MLJ0430 |
| 500 12th Street, Suite 100 | Project Number: ARCO #2111, San Leandro, CA | **Reported:** |
| Oakland CA, 94607 | Project Manager: Scott Robinson | 11/14/02 06:36 |

## Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

### Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **MW-1 (MLJ0430-01) Water Sampled: 10/10/02 09:10 Received: 10/10/02 17:10** | | | | | | | | | |
| **Gasoline Range Organics (C6-C10)** | **240** | 100 | ug/l | 2 | 2J22003 | 10/22/02 | 10/22/02 | 8015Bm/8021B | HC-21 |
| **Benzene** | **4.9** | 1.0 | " | " | " | " | " | " | |
| Toluene | ND | 1.0 | " | " | " | " | " | " | |
| **Ethylbenzene** | **4.1** | 1.0 | " | " | " | " | " | " | |
| **Xylenes (total)** | **7.0** | 1.0 | " | " | " | " | " | " | |
| **Methyl tert-butyl ether** | **290** | 5.0 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *85.8 %* | *55-142* | | " | " | " | " | |
| **MW-3 (MLJ0430-02) Water Sampled: 10/10/02 09:20 Received: 10/10/02 17:10** | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 2J21002 | 10/21/02 | 10/21/02 | 8015Bm/8021B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| **Methyl tert-butyl ether** | **26** | 2.5 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *79.4 %* | *55-142* | | " | " | " | " | |
| **MW-4 (MLJ0430-03) Water Sampled: 10/10/02 08:50 Received: 10/10/02 17:10** | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 2J22003 | 10/22/02 | 10/22/02 | 8015Bm/8021B | |
| **Benzene** | **2.2** | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| **Methyl tert-butyl ether** | **20** | 2.5 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *90.3 %* | *55-142* | | " | " | " | " | |

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885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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| URS Corporation | Project: ARCO #2111, San Leandro, Ca | MLJ0430 |
| 500 12th Street, Suite 100 | Project Number: ARCO #2111, San Leandro, CA | **Reported:** |
| Oakland CA, 94607 | Project Manager: Scott Robinson | 11/14/02 06:36 |

## Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

## Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **MW-6 (MLJ0430-04) Water Sampled: 10/10/02 08:35 Received: 10/10/02 17:10** | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 2J22003 | 10/22/02 | 10/22/02 | 8015Bm/8021B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 2.5 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *121 %* | | *55-142* | " | " | " | " | |
| **MW-7 (MLJ0430-05) Water Sampled: 10/10/02 10:00 Received: 10/10/02 17:10** | | | | | | | | | |
| **Gasoline Range Organics (C6-C10)** | **110000** | 50000 | ug/l | 1000 | 2J22003 | 10/22/02 | 10/22/02 | 8015Bm/8021B | HC-12 |
| **Benzene** | **1500** | 500 | " | " | " | " | " | " | |
| **Toluene** | **4400** | 500 | " | " | " | " | " | " | |
| **Ethylbenzene** | **820** | 500 | " | " | " | " | " | " | |
| **Xylenes (total)** | **5400** | 500 | " | " | " | " | " | " | |
| **Methyl tert-butyl ether** | **97000** | 2500 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *118 %* | | *55-142* | " | " | " | " | |
| **MW-5 (MLJ0430-06) Water Sampled: 10/10/02 09:40 Received: 10/10/02 17:10** | | | | | | | | | |
| **Gasoline Range Organics (C6-C10)** | **2400** | 2000 | ug/l | 40 | 2J24002 | 10/24/02 | 10/24/02 | 8015Bm/8021B | HC-19 |
| Benzene | ND | 20 | " | " | " | " | " | " | |
| Toluene | ND | 20 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 20 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 20 | " | " | " | " | " | " | |
| **Methyl tert-butyl ether** | **7300** | 100 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *97.8 %* | | *55-142* | " | " | " | " | |

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(408) 776-9600
FAX (408) 782-6308
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| URS Corporation | Project: ARCO #2111, San Leandro, Ca | MLJ0430 |
| 500 12th Street, Suite 100 | Project Number: ARCO #2111, San Leandro, CA | **Reported:** |
| Oakland CA, 94607 | Project Manager: Scott Robinson | 02/24/03 14:19 |

## MTBE Confirmation by EPA Method 8260B

## Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **MW-1 (MLJ0430-01) Water Sampled: 10/10/02 09:10 Received: 10/10/02 17:10** | | | | | | | | | **HT-04** |
| **Methyl tert-butyl ether** | **310** | 5.0 | ug/l | 10 | 2K01008 | 11/01/02 | 11/01/02 | EPA 8260B | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *95.6 %* | | *78-129* | " | " | " | " | |
| **MW-3 (MLJ0430-02) Water Sampled: 10/10/02 09:20 Received: 10/10/02 17:10** | | | | | | | | | **HT-04** |
| **Methyl tert-butyl ether** | **29** | 0.50 | ug/l | 1 | 2K01008 | 11/01/02 | 11/01/02 | EPA 8260B | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *93.0 %* | | *78-129* | " | " | " | " | |
| **MW-4 (MLJ0430-03) Water Sampled: 10/10/02 08:50 Received: 10/10/02 17:10** | | | | | | | | | **HT-04** |
| **Methyl tert-butyl ether** | **23** | 0.50 | ug/l | 1 | 2K01008 | 11/01/02 | 11/01/02 | EPA 8260B | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *91.4 %* | | *78-129* | " | " | " | " | |
| **MW-7 (MLJ0430-05) Water Sampled: 10/10/02 10:00 Received: 10/10/02 17:10** | | | | | | | | | **HT-04** |
| **Methyl tert-butyl ether** | **120000** | 1000 | ug/l | 2000 | 2K01008 | 11/01/02 | 11/01/02 | EPA 8260B | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *91.6 %* | | *78-129* | " | " | " | " | |
| **MW-5 (MLJ0430-06) Water Sampled: 10/10/02 09:40 Received: 10/10/02 17:10** | | | | | | | | | **HT-04** |
| **Methyl tert-butyl ether** | **7500** | 100 | ug/l | 200 | 2K01008 | 11/01/02 | 11/01/02 | EPA 8260B | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *93.4 %* | | *78-129* | " | " | " | " | |

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885 Jarvis Dr
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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| URS Corporation | Project: ARCO #2111, San Leandro, Ca | MLJ0430 |
| 500 12th Street, Suite 100 | Project Number: ARCO #2111, San Leandro, CA | **Reported:** |
| Oakland CA, 94607 | Project Manager: Scott Robinson | 11/14/02 06:36 |

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2J21002 - EPA 5030B [P/T]** | | | | | | | | | | |
| **Blank (2J21002-BLK1)** | | | | Prepared & Analyzed: 10/21/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 2.5 | " | | | | | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *10.6* | | " | *10.0* | | *106* | *55-142* | | | |
| **Laboratory Control Sample (2J21002-BS1)** | | | | Prepared & Analyzed: 10/21/02 | | | | | | |
| Benzene | 10.9 | 0.50 | ug/l | 10.0 | | 109 | 68-140 | | | |
| Toluene | 10.9 | 0.50 | " | 10.0 | | 109 | 76-127 | | | |
| Ethylbenzene | 11.3 | 0.50 | " | 10.0 | | 113 | 77-130 | | | |
| Xylenes (total) | 32.9 | 0.50 | " | 30.0 | | 110 | 78-128 | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *10.8* | | " | *10.0* | | *108* | *55-142* | | | |
| **Laboratory Control Sample (2J21002-BS2)** | | | | Prepared & Analyzed: 10/21/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | 209 | 50 | ug/l | 250 | | 83.6 | 62-134 | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *8.45* | | " | *10.0* | | *84.5* | *55-142* | | | |
| **Matrix Spike (2J21002-MS1)** | | **Source: MLJ0430-02** | | Prepared & Analyzed: 10/21/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | 560 | 50 | ug/l | 550 | ND | 102 | 62-134 | | | |
| Benzene | 12.4 | 0.50 | " | 6.60 | ND | 188 | 68-140 | | | QM-07 |
| Toluene | 41.7 | 0.50 | " | 39.7 | ND | 105 | 76-127 | | | |
| Ethylbenzene | 9.87 | 0.50 | " | 9.20 | ND | 107 | 77-130 | | | |
| Xylenes (total) | 47.2 | 0.50 | " | 46.1 | ND | 102 | 78-128 | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *8.59* | | " | *10.0* | | *85.9* | *55-142* | | | |
| **Matrix Spike Dup (2J21002-MSD1)** | | **Source: MLJ0430-02** | | Prepared & Analyzed: 10/21/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | 523 | 50 | ug/l | 550 | ND | 95.1 | 62-134 | 6.83 | 41 | |
| Benzene | 11.6 | 0.50 | " | 6.60 | ND | 176 | 68-140 | 6.67 | 30 | QM-07 |

Sequoia Analytical

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

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| URS Corporation | Project: ARCO #2111, San Leandro, Ca | MLJ0430 |
| 500 12th Street, Suite 100 | Project Number: ARCO #2111, San Leandro, CA | **Reported:** |
| Oakland CA, 94607 | Project Manager: Scott Robinson | 11/14/02 06:36 |

# Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

## Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2J21002 - EPA 5030B [P/T]** | | | | | | | | | | |
| **Matrix Spike Dup (2J21002-MSD1)** | | **Source: MLJ0430-02** | | Prepared & Analyzed: 10/21/02 | | | | | | |
| Toluene | 39.6 | 0.50 | ug/l | 39.7 | ND | 99.7 | 76-127 | 5.17 | 30 | |
| Ethylbenzene | 9.31 | 0.50 | " | 9.20 | ND | 101 | 77-130 | 5.84 | 21 | |
| Xylenes (total) | 44.9 | 0.50 | " | 46.1 | ND | 97.4 | 78-128 | 4.99 | 21 | |
| *Surrogate: a,a,a-Trifluorotoluene* | *8.39* | | " | *10.0* | | *83.9* | *55-142* | | | |
| **Batch 2J22003 - EPA 5030B [P/T]** | | | | | | | | | | |
| **Blank (2J22003-BLK1)** | | | | Prepared & Analyzed: 10/22/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | 0.619 | 0.50 | " | | | | | | | Q-19 |
| Methyl tert-butyl ether | ND | 2.5 | " | | | | | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *11.5* | | " | *10.0* | | *115* | *55-142* | | | |
| **Blank (2J22003-BLK2)** | | | | Prepared & Analyzed: 10/22/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 2.5 | " | | | | | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *9.50* | | " | *10.0* | | *95.0* | *55-142* | | | |
| **Laboratory Control Sample (2J22003-BS1)** | | | | Prepared & Analyzed: 10/22/02 | | | | | | |
| Benzene | 10.9 | 0.50 | ug/l | 10.0 | | 109 | 68-140 | | | |
| Toluene | 11.4 | 0.50 | " | 10.0 | | 114 | 76-127 | | | |
| Ethylbenzene | 11.2 | 0.50 | " | 10.0 | | 112 | 77-130 | | | |
| Xylenes (total) | 32.9 | 0.50 | " | 30.0 | | 110 | 78-128 | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *12.0* | | " | *10.0* | | *120* | *55-142* | | | |

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885 Jarvis Dr
Morgan Hill, CA 95037
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www.sequoialabs.com

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| URS Corporation | Project: ARCO #2111, San Leandro, Ca | MLJ0430 |
| 500 12th Street, Suite 100 | Project Number: ARCO #2111, San Leandro, CA | **Reported:** |
| Oakland CA, 94607 | Project Manager: Scott Robinson | 11/14/02 06:36 |

## Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

## Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2J22003 - EPA 5030B [P/T]** | | | | | | | | | | |
| **Laboratory Control Sample (2J22003-BS1)** | | | | Prepared & Analyzed: 10/22/02 | | | | | | |
| **Laboratory Control Sample (2J22003-BS2)** | | | | Prepared & Analyzed: 10/22/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | 222 | 50 | ug/l | 250 | | 88.8 | 62-134 | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *13.8* | | " | *10.0* | | *138* | *55-142* | | | |
| **Matrix Spike (2J22003-MS1)** | | **Source: MLJ0430-04** | | Prepared & Analyzed: 10/22/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | 403 | 50 | ug/l | 550 | ND | 73.3 | 62-134 | | | |
| Benzene | 8.32 | 0.50 | " | 6.60 | ND | 126 | 68-140 | | | |
| Toluene | 38.9 | 0.50 | " | 39.7 | ND | 98.0 | 76-127 | | | |
| Ethylbenzene | 8.42 | 0.50 | " | 9.20 | ND | 91.5 | 77-130 | | | |
| Xylenes (total) | 42.5 | 0.50 | " | 46.1 | ND | 92.2 | 78-128 | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *9.40* | | " | *10.0* | | *94.0* | *55-142* | | | |
| **Matrix Spike Dup (2J22003-MSD1)** | | **Source: MLJ0430-04** | | Prepared & Analyzed: 10/22/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | 405 | 50 | ug/l | 550 | ND | 73.6 | 62-134 | 0.495 | 41 | |
| Benzene | 8.87 | 0.50 | " | 6.60 | ND | 134 | 68-140 | 6.40 | 30 | |
| Toluene | 35.7 | 0.50 | " | 39.7 | ND | 89.9 | 76-127 | 8.58 | 30 | |
| Ethylbenzene | 7.68 | 0.50 | " | 9.20 | ND | 83.5 | 77-130 | 9.19 | 21 | |
| Xylenes (total) | 42.6 | 0.50 | " | 46.1 | ND | 92.4 | 78-128 | 0.235 | 21 | |
| *Surrogate: a,a,a-Trifluorotoluene* | *14.3* | | " | *10.0* | | *143* | *55-142* | | | *QM-07* |
| **Batch 2J24002 - EPA 5030B [P/T]** | | | | | | | | | | |
| **Blank (2J24002-BLK1)** | | | | Prepared & Analyzed: 10/24/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 2.5 | " | | | | | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *10.4* | | " | *10.0* | | *104* | *55-142* | | | |

Sequoia Analytical

885 Jarvis Dr
Morgan Hill, CA 95037
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| URS Corporation | Project: ARCO #2111, San Leandro, Ca | MLJ0430 |
| 500 12th Street, Suite 100 | Project Number: ARCO #2111, San Leandro, CA | **Reported:** |
| Oakland CA, 94607 | Project Manager: Scott Robinson | 11/14/02 06:36 |

## Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

## Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2J24002 - EPA 5030B [P/T]** | | | | | | | | | | |
| **Laboratory Control Sample (2J24002-BS1)** | | | | Prepared & Analyzed: 10/24/02 | | | | | | |
| Benzene | 10.5 | 0.50 | ug/l | 10.0 | | 105 | 68-140 | | | |
| Toluene | 10.5 | 0.50 | " | 10.0 | | 105 | 76-127 | | | |
| Ethylbenzene | 10.9 | 0.50 | " | 10.0 | | 109 | 77-130 | | | |
| Xylenes (total) | 31.7 | 0.50 | " | 30.0 | | 106 | 78-128 | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *10.1* | | " | *10.0* | | *101* | *55-142* | | | |
| **Laboratory Control Sample (2J24002-BS2)** | | | | Prepared & Analyzed: 10/24/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | 256 | 50 | ug/l | 250 | | 102 | 62-134 | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *9.13* | | " | *10.0* | | *91.3* | *55-142* | | | |
| **Matrix Spike (2J24002-MS1)** | | **Source: MLJ0521-01** | | Prepared & Analyzed: 10/24/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | 584 | 50 | ug/l | 550 | 90 | 89.8 | 62-134 | | | |
| Benzene | 11.2 | 0.50 | " | 6.60 | ND | 170 | 68-140 | | | QM-07 |
| Toluene | 39.9 | 0.50 | " | 39.7 | ND | 100 | 76-127 | | | |
| Ethylbenzene | 9.54 | 0.50 | " | 9.20 | ND | 104 | 77-130 | | | |
| Xylenes (total) | 45.8 | 0.50 | " | 46.1 | ND | 99.3 | 78-128 | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *8.96* | | " | *10.0* | | *89.6* | *55-142* | | | |
| **Matrix Spike Dup (2J24002-MSD1)** | | **Source: MLJ0521-01** | | Prepared & Analyzed: 10/24/02 | | | | | | |
| Gasoline Range Organics (C6-C10) | 557 | 50 | ug/l | 550 | 90 | 84.9 | 62-134 | 4.73 | 41 | |
| Benzene | 9.86 | 0.50 | " | 6.60 | ND | 149 | 68-140 | 12.7 | 30 | QM-07 |
| Toluene | 35.6 | 0.50 | " | 39.7 | ND | 89.5 | 76-127 | 11.4 | 30 | |
| Ethylbenzene | 8.34 | 0.50 | " | 9.20 | ND | 90.7 | 77-130 | 13.4 | 21 | |
| Xylenes (total) | 40.4 | 0.50 | " | 46.1 | ND | 87.6 | 78-128 | 12.5 | 21 | |
| *Surrogate: a,a,a-Trifluorotoluene* | *8.32* | | " | *10.0* | | *83.2* | *55-142* | | | |

Sequoia Analytical

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

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| URS Corporation | Project: ARCO #2111, San Leandro, Ca | MLJ0430 |
| 500 12th Street, Suite 100 | Project Number: ARCO #2111, San Leandro, CA | **Reported:** |
| Oakland CA, 94607 | Project Manager: Scott Robinson | 11/14/02 06:36 |

## MTBE Confirmation 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 2K01008 - EPA 5030B P/T** | | | | | | | | | | |
| **Blank (2K01008-BLK1)** | | | | Prepared & Analyzed: 11/01/02 | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | ug/l | | | | | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *4.64* | | " | *5.00* | | *92.8* | *78-129* | | | |
| **Laboratory Control Sample (2K01008-BS1)** | | | | Prepared & Analyzed: 11/01/02 | | | | | | |
| Methyl tert-butyl ether | 8.36 | 0.50 | ug/l | 10.0 | | 83.6 | 63-137 | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *4.56* | | " | *5.00* | | *91.2* | *78-129* | | | |
| **Laboratory Control Sample Dup (2K01008-BSD1)** | | | | Prepared & Analyzed: 11/01/02 | | | | | | |
| Methyl tert-butyl ether | 8.77 | 0.50 | ug/l | 10.0 | | 87.7 | 63-137 | 4.79 | 13 | |
| *Surrogate: 1,2-Dichloroethane-d4* | *4.42* | | " | *5.00* | | *88.4* | *78-129* | | | |

Sequoia Analytical

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

| | | |
|---|---|---|
| URS Corporation | Project: ARCO #2111, San Leandro, Ca | MLJ0430 |
| 500 12th Street, Suite 100 | Project Number: ARCO #2111, San Leandro, CA | **Reported:** |
| Oakland CA, 94607 | Project Manager: Scott Robinson | 11/14/02 06:36 |

## Notes and Definitions

| | |
|---|---|
| HC-12 | Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel. |
| HC-19 | Discrete peak @ C6-C7. |
| HC-21 | Chromatogram Pattern: Gasoline C6-C10 |
| HT-04 | This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose. |
| Q-19 | The method blank contains this analyte at a concentration above the method reporting limit. This should be considered in evaluating the data for its intended purpose. |
| QM-07 | The spike recovery was outside 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 |

ML30430

Page 1 of 2

# Chain of Custody Record

**Project Name**
**BP BU/GEM CO Portfolio:**
**BP Laboratory Contract Number:**
**Requested Due Date (mm/dd/yy)** Standard

Date: 10/09/02

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

**Send To:**
Lab Name: SEQUOIA
Lab Address: 885 Jarvis Dr.
Morgan Hill, CA 95037
Lab PM: Latonya Pelt
Tele/Fax: 408-776-9600 / 408-782-6308
Report Type & QC Level: Send EDF Reports
BP/GEM Account No.:
Lab Bottle Order No:

BP/GEM Facility No.:
BP/GEM Facility Address: 1156 DAVIS ST, San Leandro, CA
Site ID No. ARCO 2111
Site Lat/Long:
California Global ID #: T0600101764
BP/GEM PM Contact: PAUL SUPPLE
Address:
Tele/Fax:

Consultant/Contractor: URS
Address: 500 12th St., Ste. 200
Oakland, CA 94608-4014
e-mail EDD: syed_rehan@urscorp.com
Consultant/Contractor Project No.: JS-00002111.01 00427
Consultant Tele/Fax: 510-874-1735/510-874-3268
Consultant/Contractor PM: Scott Robinson
Invoice to: Consultant/Contractor or (BP/GEM) (Circle one)
BP/GEM Work Release No: INTRIM-50277

| Item No. | Sample Description | Time | Matrix: Soil/Solid | Matrix: Water/Liquid | Matrix: Sediments | Matrix: Air | Laboratory No. | No. of containers | Preservatives: Unpreserved | Preservatives: $H_2SO_4$ | Preservatives: $HNO_3$ | Preservatives: HCl | Requested Analysis: TPH-G / BTEX (8015 / 8021) | Requested Analysis: TPH-D (8015) | Requested Analysis: MTBE (8021) | Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260) | Requested Analysis: 1,2-DCA & EDB (8260) | Sample Point Lat/Long and Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-1 | 0910 | | X | | | | 6 | | | | X | X | | X | | | |
| 2 | ~~MW-2~~ | — | | | | | | | | | | | | | | | | |
| 3 | MW-3 | 0920 | | X | | | | 6 | | | | X | X | | X | | | |
| 4 | MW-4 | 0950 | | X | | | | 6 | | | | X | X | | X | | | |
| 5 | MW-6 | 0935 | | X | | | | 6 | | | | X | X | | X | | | |
| 6 | MW-7 | 1000 | | X | | | | 6 | | | | X | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

| | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---|---|---|---|---|---|---|
| Sampler's Name: Brian Accord | | 10/10/02 | 1118 | | 10/10/02 | 1118 |
| Sampler's Company: Blaine Tech Services | | 10/10/02 | 1710 | | 10/10/02 | 1710 |
| Shipment Date: | | | | | | |
| Shipment Method: | | | | | | |
| Shipment Tracking No: | | | | | | |

Special Instructions: Address Invoice to BP/GEM but send to URS for approval — Confirm Acc MTBE Hits by 8260

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

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

BP COC Rev. 1 2/5/02

MJ0430

# Chain of Custody Record

Project Name:
BP BU/GEM CO Portfolio:
BP Laboratory Contract Number:
Requested Due Date (mm/dd/yy): Standard

Date: 10/09/02

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

End To:
Lab Name: SEQUOIA
Lab Address: 885 Jarvis Dr.
Morgan Hill, CA 95037

Lab PM: Latonya Pelt
Tele/Fax: 408-776-9600 / 408-782-6308
Report Type & QC Level: Send EDF Reports
BP/GEM Account No.:
Lab Bottle Order No:

BP/GEM Facility No.:
BP/GEM Facility Address: 1156 DAVIS ST. San Leandro, CA
Site ID No. ARCO 2111
Site Lat/Long:
California Global ID #: T0600101764
BP/GEM PM Contact: PAUL SUPPLE
Address:
Tele/Fax:

Consultant/Contractor: URS
Address: 500 12th St., Ste. 200
Oakland, CA 94607-4014
e-mail EDD: syed_rehan@urscorp.com
Consultant/Contractor Project No.: 15-00002111.01 00427
Consultant Tele/Fax: 510-874-1735/510-874-3268
Consultant/Contractor PM: Scott Robinson
Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Work Release No: INTRIM -50277

| Item No. | Sample Description | Time | Matrix: Soil/Solid | Matrix: Water/Liquid | Matrix: Sediments | Matrix: Air | Laboratory No. | No. of containers | Preservatives: Unpreserved | Preservatives: $H_2SO_4$ | Preservatives: $HNO_3$ | Preservatives: HCl | Requested Analysis: TPH-G / BTEX (8015 / 8021) | Requested Analysis: TPH-D (8015) | Requested Analysis: MTBE (8021) | Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260) | Requested Analysis: 1,2-DCA & EDB (8260) | Sample Point Lat/Long and Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-5 | 0940 | | X | | | | 6 | | | | X | X | | X | | | |
| 2 | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

| | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---|---|---|---|---|---|---|
| Sampler's Name: Bernard Alcorn | | 10/9/02 | 1117 | | 10/10/02 | 1115 |
| Sampler's Company: Bonner Tech Services | | 10/9/02 | 1710 | | 10/10/02 | 1320 |
| Shipment Date: | | | | | | |
| Shipment Method: | | | | | | |
| Airbill Tracking No: | | | | | | |

Special Instructions: Address Invoice to BP/GEM but send to URS for approval. Confirm all MTBE Hits by 8260

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

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

BP COC Rev. 1 2/502

dop

# SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
REC. BY (PRINT) TL
WORKORDER: 211036

DATE Received at Lab: 10/10/02
TIME Received at Lab: 1710
LOG IN DATE: 10-15-02

Drinking water for regulatory purposes: YES / (NO)
Wastewater for regulatory purposes: YES / (NO)

| CIRCLE THE APPROPRIATE RESPONSE | | LAB SAMPLE # | # | CLIENT ID | CONTAINER DESCRIPTION | SAMPLE MATRIX | DATE SAMPLED | REMARKS: CONDITION (ETC.) |
|---|---|---|---|---|---|---|---|---|
| 1. Custody Seal(s) | (Present) / Absent<br>Intact / Broken* | | | MW-1 | (6) Voas HCl | (L) | 10/9/02 | 211040 |
| 2. Chain-of-Custody | (Present) / Absent* | | | MW-3 | | | | |
| 3. Traffic Reports or Packing List: | Present / (Absent) | | | MW-4 | | | | |
| 4. Airbill: | Airbill / Sticker<br>Present / Absent | | | MW-6 | | | | |
| 5. Airbill #: | | | | MW-7 | | | | |
| 6. Sample Labels: | (Present) / Absent | | | | | | | |
| 7. Sample IDs: | (Listed) / Not Listed on Chain-of-Custody | | | | | | | |
| 8. Sample Condition: | (Intact) / Broken* / Leaking* | | | | | | | |
| 9. Does information on custody reports, traffic reports and sample labels agree? | (Yes) / No* | | | | | | | |
| 10. Sample received within hold time: | (Yes) / No* | | | | | | | |
| 11. Proper Preservatives used: | (Yes) / No* | | | | | | | |
| 12. Temp Rec. at Lab: 5°C<br>(Acceptance range for samples requiring thermal pres.:4+/-2°C) | (Yes) / No** | | | | | | | |
| **Exception (if any): | | | | | | | | |

TL 10/10/02

*If Circled, contact Project Manager and attach record of resolution.

# ATTACHMENT C

# HISTORIC GROUNDWATER DATA

# Table 1
## Historical Groundwater Elevation and Analytical Data
## Petroleum Hydrocarbons and Their Constituents

## ARCO Service Station 2111
## 1156 Davis Street, San Leandro, California

| Well Designation | Water Level Field Date | Top of Casing Elevation ft-MSL | Depth to Water feet | Free Product Thickness feet | Groundwater Elevation ft-MSL | Water Sample Field Date | **TPHG** LUFT Method µg/L | **Benzene** EPA 8021B* µg/L | **Toluene** EPA 8021B* µg/L | **Ethylbenzene** EPA 8021B* µg/L | **Total Xylenes** EPA 8021B* µg/L | **MTBE** EPA 8021B* µg/L | **MTBE** EPA 8260 µg/L | **TRPH** EPA 418.1 µg/L | **TPHD** LUFT Method µg/L | Dissolved Oxygen mg/L | Purged/ Not Purged P/NP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 08-01-95 | 39.60 | 17.45 | ND | 22.15 | 08-01-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | |
| MW-1 | 12-14-95 | 39.60 | 17.09 | ND | 22.51 | 12-14-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 03-21-96 | 39.60 | 14.72 | ND | 24.88 | 03-21-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 05-24-96 | 39.60 | 15.94 | ND | 23.66 | 05-24-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 08-09-96 | 39.60 | 17.89 | ND | 21.71 | 08-09-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 11-06-96 | 39.60 | 18.66 | ND | 20.94 | 11-06-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 03-24-97 | 39.60 | 16.13 | ND | 23.47 | 03-24-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 05-27-97 | 39.60 | 17.23 | ND | 22.37 | 05-28-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 08-07-97 | 39.60 | 18.68 | ND | 20.92 | 08-07-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 11-10-97 | 39.60 | 19.19 | ND | 20.41 | 11-10-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 02-16-98 | 39.60 | 12.61 | ND | 26.99 | 02-16-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 04-15-98 | 39.60 | 14.30 | ND | 25.30 | 04-15-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 07-24-98 | 39.60 | 16.40 | ND | 23.20 | 07-24-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 10-19-98 | 39.60 | 17.90 | ND | 21.70 | 10-19-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-1 | 01-28-99 | 39.60 | 16.85 | ND | 22.75 | 01-28-99 | <20,000 | 580 | <200 | <200 | 320 | 14,000 | -- | -- | -- | | |
| MW-1 | 06-25-99 | 39.60 | 17.35 | ND | 22.25 | 06-25-99 | 730 | 140 | 5 | 3 | 2 | 7,700 | -- | -- | -- | 0.79 | NP |
| MW-1 | 08-25-99 | 39.60 | 18.20 | ND | 21.40 | 08-25-99 | 390 | 66 | 8.5 | <2.5 | 8.6 | 3,700 | -- | -- | -- | 1.56 | NP |
| MW-1 | 11-10-99 | 39.60 | 17.77 | ND | 21.83 | 11-10-99 | 360 | 70 | 13 | 2.2 | 13 | 980 | -- | -- | -- | 0.30 | NP |
| MW-1 | 02-09-00 | 39.60 | 16.25 | ND | 23.35 | 02-09-00 | 190 | 4.5 | 0.9 | <0.5 | 12 | 3,500 | -- | -- | -- | 0.53 | NP |
| MW-2 | 08-01-95 | 37.99 | 15.67 | ND | 22.32 | 08-01-95 | 23,000 | 1,300 | 310 | 500 | 3,500 | -- | -- | -- | -- | | |
| MW-2 | 12-14-95 | 37.99 | 15.36 | ND | 22.63 | 12-14-95 | 7,300 | 900 | 25 | 180 | 1,000 | <200 | -- | -- | -- | | |
| MW-2 | 03-21-96 | 37.99 | 12.84 | ND | 25.15 | 03-21-96 | 9,600 | 850 | 30 | 280 | 1,400 | 250 | -- | -- | -- | | |
| MW-2 | 05-24-96 | 37.99 | 14.03 | ND | 23.96 | 05-24-96 | 2,300 | 300 | <5 | 73 | 310 | <25 | -- | -- | -- | | |
| MW-2 | 08-09-96 | 37.99 | 16.10 | ND | 21.89 | 08-09-96 | 2,800 | 290 | 6 | 75 | 320 | 50 | -- | -- | -- | | |

# Table 1
## Historical Groundwater Elevation and Analytical Data
## Petroleum Hydrocarbons and Their Constituents

## ARCO Service Station 2111
## 1156 Davis Street, San Leandro, California

| Well Designation | Water Level Field Date | Top of Casing Elevation ft-MSL | Depth to Water feet | Free Product Thickness feet | Groundwater Elevation ft-MSL | Water Sample Field Date | **TPHG** LUFT Method µg/L | **Benzene** EPA 8021B* µg/L | **Toluene** EPA 8021B* µg/L | **Ethylbenzene** EPA 8021B* µg/L | **Total Xylenes** EPA 8021B* µg/L | **MTBE** EPA 8021B* µg/L | **MTBE** EPA 8260 µg/L | **TRPH** EPA 418.1 µg/L | **TPHD** LUFT Method µg/L | Dissolved Oxygen mg/L | Purged/ Not Purged P/NP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 11-06-96 | 37.99 | 16.98 | ND | 21.01 | 11-06-96 | 750 | 76 | <1 | 15 | 51 | 110 | -- | -- | -- | | |
| MW-2 | 03-24-97 | 37.99 | 14.22 | ND | 23.77 | 03-24-97 | 790 | 18 | <1 | 2 | 6 | 280 | -- | -- | -- | | |
| MW-2 | 05-27-97 | 37.99 | 15.42 | ND | 22.57 | 05-28-97 | 750 | 14 | <1 | <1 | 10 | 150 | -- | -- | -- | | |
| MW-2 | 08-07-97 | 37.99 | 16.92 | ND | 21.07 | 08-07-97 | 360 | 31 | <2.5 | <2.5 | 15 | 260 | -- | -- | -- | | |
| MW-2 | 11-10-97 | 37.99 | 17.52 | ND | 20.47 | 11-10-97 | 1,300 | 82 | <5 | 14 | 49 | 550 | -- | -- | -- | | |
| MW-2 | 02-16-98 | 37.99 | 12.04 | ND | 25.95 | 02-16-98 | <2,500 | <25 | <25 | <25 | <25 | 4,200 | -- | -- | -- | | |
| MW-2 | 04-15-98 | 37.99 | 12.34 | ND | 25.65 | 04-15-98 | <10,000 | <100 | <100 | <100 | <100 | 7,300 | -- | -- | -- | | |
| MW-2 | 07-24-98 | 37.99 | 14.45 | ND | 23.54 | 07-24-98 | <2,500 | <25 | <25 | <25 | <25 | 1,500 | -- | -- | -- | | |
| MW-2 | 10-19-98 | 37.99 | 16.08 | ND | 21.91 | 10-19-98 | <1,000 | 18 | <10 | <10 | <10 | 1,100 | -- | -- | -- | | |
| MW-2 | 01-28-99 | 37.99 | 15.59 | 0.02 | 22.41 [1] | 01-28-99 | 160,000 | 3,000 | 24,000 | 4,400 | 31,000 | 23,000 | -- | -- | -- | | |
| MW-2 | 06-25-99 | 37.99 | 19.20 | 3.73[4] | 21.51 [1] | 06-25-99 | 120,000 | 6,900 | 21,000 | 2,600 | 19,000 | 18,000 | 17,000[3] | -- | -- | 0.49 | NP |
| MW-2 | 08-25-99 | 37.99 | 16.49 | 0.02 | 21.51 [1] | 08-25-99 | 92,000 | 2,200 | 16,000 | 3,200 | 19,000 | 11,000 | 9,400[3] | -- | -- | 0.84 | NP |
| MW-2 | 11-10-99 | 37.99 | 16.08 | ND | 21.91 | 11-10-99 | 56,000 | 2,400 | 5,900 | 1,500 | 10,000 | 17,000 | 21,000[3] | -- | -- | 0.41 | NP |
| MW-2 | 02-09-00 | 37.99 | 14.85 | ND | 23.14 | 02-09-00 | 1,700 | 270 | 14 | 17 | 21 | 70,000 | 55,000[3] | -- | -- | 0.97 | NP |
| MW-3 | 08-01-95 | 39.32 | 17.00 | ND | 22.32 | 08-01-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | 600 | 76[2] | | |
| MW-3 | 12-14-95 | 39.32 | 16.70 | ND | 22.62 | 12-14-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | <500 | <50 | | |
| MW-3 | 03-21-96 | 39.32 | 14.17 | ND | 25.15 | 03-21-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | <500 | <50 | | |
| MW-3 | 05-24-96 | 39.32 | 15.30 | ND | 24.02 | 05-24-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | <500 | <50 | | |
| MW-3 | 08-09-96 | 39.32 | 17.58 | ND | 21.74 | 08-09-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | <500 | -- | | |
| MW-3 | 11-06-96 | 39.32 | 18.33 | ND | 20.99 | 11-06-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-3 | 03-24-97 | 39.32 | 15.44 | ND | 23.88 | 03-24-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-3 | 05-27-97 | 39.32 | 16.75 | ND | 22.57 | 05-28-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-3 | 08-07-97 | 39.32 | 18.35 | ND | 20.97 | 08-07-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-3 | 11-10-97 | 39.32 | 18.83 | ND | 20.49 | 11-10-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |

# Table 1
## Historical Groundwater Elevation and Analytical Data
## Petroleum Hydrocarbons and Their Constituents

## ARCO Service Station 2111
## 1156 Davis Street, San Leandro, California

| Well Designation | Water Level Field Date | Top of Casing Elevation | Depth to Water | Free Product Thickness | Groundwater Elevation | Water Sample Field Date | **TPHG** LUFT Method | **Benzene** EPA 8021B* | **Toluene** EPA 8021B* | **Ethylbenzene** EPA 8021B* | **Total Xylenes** EPA 8021B* | **MTBE** EPA 8021B* | **MTBE** EPA 8260 | **TRPH** EPA 418.1 | **TPHD** LUFT Method | Dissolved Oxygen | Purged/ Not Purged |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ft-MSL | feet | feet | ft-MSL | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mg/L | P/NP |
| MW-3 | 02-16-98 | 39.32 | 11.99 | ND | 27.33 | 02-16-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-3 | 04-15-98 | 39.32 | 13.75 | ND | 25.57 | 04-15-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-3 | 07-24-98 | 39.32 | 15.90 | ND | 23.42 | 07-24-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-3 | 10-19-98 | 39.32 | 17.45 | ND | 21.87 | 10-19-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-3 | 01-28-99 | 39.32 | 16.40 | ND | 22.92 | 01-28-99 | <100 | 14 | 4 | <1 | 6 | 100 | -- | -- | -- | | |
| MW-3 | 06-25-99 | 39.32 | 17.92 | ND | 21.40 | 06-25-99 | 83 | 9.0 | 1.4 | <0.5 | 2.5 | 220 | -- | -- | -- | 1.11 | NP |
| MW-3 | 08-25-99 | 39.32 | 17.79 | ND | 21.53 | 08-25-99 | 240 | 41 | 12 | 3.7 | 9.9 | 160 | -- | -- | -- | 1.13 | NP |
| MW-3 | 11-10-99 | 39.32 | 17.37 | ND | 21.95 | 11-10-99 | 620 | 100 | 9.7 | 4.1 | 21 | 150 | -- | -- | -- | 0.24 | NP |
| MW-3 | 02-09-00 | 39.32 | 15.77 | ND | 23.55 | 02-09-00 | <50 | <0.5 | 0.7 | <0.5 | <1 | 180 | -- | -- | -- | 0.62 | NP |
| MW-4 | 08-01-95 | 38.10 | 15.65 | ND | 22.45 | 08-01-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | |
| MW-4 | 12-14-95 | 38.10 | 15.35 | ND | 22.75 | 12-14-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 03-21-96 | 38.10 | 12.74 | ND | 25.36 | 03-21-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 05-24-96 | 38.10 | 14.03 | ND | 24.07 | 05-24-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 08-09-96 | 38.10 | 16.10 | ND | 22.00 | 08-09-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 11-06-96 | 38.10 | 17.00 | ND | 21.10 | 11-06-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 03-24-97 | 38.10 | 14.21 | ND | 23.89 | 03-24-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 05-27-97 | 38.10 | 15.38 | ND | 22.72 | 05-28-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 08-07-97 | 38.10 | 16.95 | ND | 21.15 | 08-07-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 11-10-97 | 38.10 | 17.53 | ND | 20.57 | 11-10-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 02-16-98 | 38.10 | 10.65 | ND | 27.45 | 02-16-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 04-15-98 | 38.10 | 12.20 | ND | 25.90 | 04-15-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 07-24-98 | 38.10 | 14.47 | ND | 23.63 | 07-24-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 10-19-98 | 38.10 | 16.20 | ND | 21.90 | 10-19-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-4 | 01-28-99 | 38.10 | 15.02 | ND | 23.08 | 01-28-99 | 340 | 52 | 5.5 | <0.5 | 74 | 31 | -- | -- | -- | | |

# Table 1
## Historical Groundwater Elevation and Analytical Data
## Petroleum Hydrocarbons and Their Constituents

## ARCO Service Station 2111
## 1156 Davis Street, San Leandro, California

| Well Designation | Water Level Field Date | Top of Casing Elevation ft-MSL | Depth to Water feet | Free Product Thickness feet | Groundwater Elevation ft-MSL | Water Sample Field Date | **TPHG** LUFT Method µg/L | **Benzene** EPA 8021B* µg/L | **Toluene** EPA 8021B* µg/L | **Ethylbenzene** EPA 8021B* µg/L | **Total Xylenes** EPA 8021B* µg/L | **MTBE** EPA 8021B* µg/L | **MTBE** EPA 8260 µg/L | **TRPH** EPA 418.1 µg/L | **TPHD** LUFT Method µg/L | Dissolved Oxygen mg/L | Purged/ Not Purged P/NP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-4 | 06-25-99 | 38.10 | 15.57 | ND | 22.53 | 06-25-99 | 510 | 78 | 4.1 | 0.5 | 18 | 94 | -- | -- | -- | 0.90 | NP |
| MW-4 | 08-25-99 | 38.10 | 16.43 | ND | 21.67 | 08-25-99 | 660 | 130 | 21 | 6.4 | 39 | 110 | -- | -- | -- | 1.01 | NP |
| MW-4 | 11-10-99 | 38.10 | 16.02 | ND | 22.08 | 11-10-99 | 510 | 98 | 5.1 | 3.1 | 15 | 69 | -- | -- | -- | 0.28 | NP |
| MW-4 | 02-09-00 | 38.10 | 14.30 | ND | 23.80 | 02-09-00 | <50 | <0.5 | 0.9 | <0.5 | <1 | 55 | -- | -- | -- | 0.67 | NP |
| MW-5 | 03-21-96 | 37.21 | 12.60 | ND | 24.61 | 03-22-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 82 | -- | -- | -- | | |
| MW-5 | 05-24-96 | 37.21 | 13.71 | ND | 23.50 | 05-24-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 7 | -- | -- | -- | | |
| MW-5 | 08-09-96 | 37.21 | 15.60 | ND | 21.61 | 08-09-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 8 | -- | -- | -- | | |
| MW-5 | 11-06-96 | 37.21 | 16.36 | ND | 20.85 | 11-06-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 100 | -- | -- | -- | | |
| MW-5 | 03-24-97 | 37.21 | 13.87 | ND | 23.34 | 03-24-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 460 | -- | -- | -- | | |
| MW-5 | 05-27-97 | 37.21 | 14.71 | ND | 22.50 | 05-28-97 | <100 | <1 | <1 | <1 | <1 | 120 | -- | -- | -- | | |
| MW-5 | 08-07-97 | 37.21 | 16.90 | ND | 20.31 | 08-07-97 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | 250 | -- | -- | -- | | |
| MW-5 | 11-10-97 | 37.21 | 16.88 | ND | 20.33 | 11-10-97 | <1,000 | <10 | <10 | <10 | <10 | 770 | -- | -- | -- | | |
| MW-5 | 02-16-98 | 37.21 | 10.56 | ND | 26.65 | 02-16-98 | <200 | <2 | <2 | <2 | <2 | 230 | -- | -- | -- | | |
| MW-5 | 04-15-98 | 37.21 | 12.20 | ND | 25.01 | 04-15-98 | <500 | <5 | <5 | <5 | <5 | 900 | -- | -- | -- | | |
| MW-5 | 07-24-98 | 37.21 | 14.20 | ND | 23.01 | 07-24-98 | <500 | <5 | <5 | <5 | <5 | 570 | -- | -- | -- | | |
| MW-5 | 10-19-98 | 37.21 | 15.74 | ND | 21.47 | 10-19-98 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | 300 | -- | -- | -- | | |
| MW-5 | 01-28-99 | 37.21 | 14.60 | ND | 22.61 | 01-28-99 | <500 | 8 | <5 | <5 | <5 | 290 | -- | -- | -- | | |
| MW-5 | 06-25-99 | 37.21 | 15.10 | ND | 22.11 | 06-25-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1,300 | -- | -- | -- | 0.76 | NP |
| MW-5 | 08-25-99 | 37.21 | 15.91 | ND | 21.30 | 08-25-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 6,700 | -- | -- | -- | 0.98 | NP |
| MW-5 | 11-10-99 | 37.21 | 15.52 | ND | 21.69 | 11-10-99 | 130 | 2.0 | 7.0 | 1.3 | 21 | 5,000 | -- | -- | -- | 0.21 | NP |
| MW-5 | 02-09-00 | 37.21 | 14.03 | ND | 23.18 | 02-09-00 | 92 | <0.5 | 0.8 | <0.5 | 1.0 | 7,900 | -- | -- | -- | 0.51 | NP |
| MW-6 | 03-21-96 | 37.11 | 11.55 | ND | 25.56 | 03-22-96 | <50 | <0.5 | 1.9 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-6 | 05-24-96 | 37.11 | 12.80 | ND | 24.31 | 05-24-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 6 | -- | -- | -- | | |

# Table 1
## Historical Groundwater Elevation and Analytical Data
## Petroleum Hydrocarbons and Their Constituents

## ARCO Service Station 2111
## 1156 Davis Street, San Leandro, California

| Well Designation | Water Level Field Date | Top of Casing Elevation ft-MSL | Depth to Water feet | Free Product Thickness feet | Groundwater Elevation ft-MSL | Water Sample Field Date | **TPHG** LUFT Method µg/L | **Benzene** EPA 8021B* µg/L | **Toluene** EPA 8021B* µg/L | **Ethylbenzene** EPA 8021B* µg/L | **Total Xylenes** EPA 8021B* µg/L | **MTBE** EPA 8021B* µg/L | **MTBE** EPA 8260 µg/L | **TRPH** EPA 418.1 µg/L | **TPHD** LUFT Method µg/L | Dissolved Oxygen mg/L | Purged/ Not Purged P/NP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-6 | 08-09-96 | 37.11 | Not surveyed | | | 08-09-96 | Not sampled: Car parked on well | | | | | | | | | | |
| MW-6 | 11-06-96 | 37.11 | Not surveyed | | | 11-06-96 | Not sampled: Car parked on well | | | | | | | | | | |
| MW-6 | 03-24-97 | 37.11 | 13.06 | ND | 24.05 | 03-24-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-6 | 05-27-97 | 37.11 | 14.30 | ND | 22.81 | 05-28-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-6 | 08-07-97 | 37.11 | 16.40 | ND | 20.71 | 08-07-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-6 | 11-10-97 | 37.11 | 16.53 | ND | 20.58 | 11-10-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-6 | 02-16-98 | 37.11 | Not surveyed | | | 02-16-98 | Not sampled: Car parked on well | | | | | | | | | | |
| MW-6 | 04-15-98 | 37.11 | 10.95 | ND | 26.16 | 04-15-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-6 | 07-24-98 | 37.11 | 13.30 | ND | 23.81 | 07-24-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-6 | 10-19-98 | 37.11 | Not surveyed | | | 10-19-98 | Not sampled: Car parked on well | | | | | | | | | | |
| MW-6 | 01-28-99 | 37.11 | 13.92 | ND | 23.19 | 01-28-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | | |
| MW-6 | 06-25-99 | 37.11 | 15.47 | ND | 21.64 | 06-25-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- | -- | -- | 0.74 | NP |
| MW-6 | 08-25-99 | 37.11 | 15.39 | ND | 21.72 | 08-25-99 | <50 | <0.5 | 3.4 | 0.6 | 3.7 | <3 | -- | -- | -- | 0.92 | NP |
| MW-6 | 11-10-99 | 37.11 | 14.92 | ND | 22.19 | 11-10-99 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | -- | -- | -- | 0.31 | NP |
| MW-6 | 02-09-00 | 37.11 | 13.30 | ND | 23.81 | 02-09-00 | <50 | <0.5 | 0.9 | <0.5 | 1.3 | <3 | -- | -- | -- | 0.79 | NP |
| MW-7 | 03-21-96 | 38.68 | 13.32 | ND | 25.36 | 03-22-96 | 32,000 | 870 | 450 | 970 | 4,900 | 280 | -- | -- | -- | | |
| MW-7 | 05-24-96 | 38.68 | 14.58 | ND | 24.10 | 05-24-96 | 22,000 | 570 | 40 | 42 | 1,900 | <200[2] | -- | -- | -- | | |
| MW-7 | 08-09-96 | 38.68 | 15.33 | ND | 23.35 | 08-09-96 | 14,000 | 390 | <10 | 180 | 470 | <200[2] | -- | -- | -- | | |
| MW-7 | 11-06-96 | 38.68 | 16.95 | ND | 21.73 | 11-06-96 | 9,500 | 440 | <10 | 210 | 150 | <100[2] | -- | -- | -- | | |
| MW-7 | 03-24-97 | 38.68 | 14.65 | ND | 24.03 | 03-24-97 | 6,400 | 420 | <10 | 260 | 13 | 480 | -- | -- | -- | | |
| MW-7 | 05-27-97 | 38.68 | 15.58 | ND | 23.10 | 05-28-97 | 5,000 | 420 | <5 | 230 | 10 | 460 | -- | -- | -- | | |
| MW-7 | 08-07-97 | 38.68 | 17.10 | ND | 21.58 | 08-07-97 | 3,900 | 350 | <5 | 200 | 10 | 330 | -- | -- | -- | | |
| MW-7 | 11-10-97 | 38.68 | 18.05 | ND | 20.63 | 11-10-97 | 5,600 | 590 | 10 | 370 | 43 | 540 | -- | -- | -- | | |
| MW-7 | 02-16-98 | 38.68 | 12.03 | ND | 26.65 | 02-16-98 | <5,000 | 390 | <50 | <50 | 61 | 4,300 | -- | -- | -- | | |

# Table 1
## Historical Groundwater Elevation and Analytical Data
## Petroleum Hydrocarbons and Their Constituents

## ARCO Service Station 2111
## 1156 Davis Street, San Leandro, California

| Well Designation | Water Level Field Date | Top of Casing Elevation ft-MSL | Depth to Water feet | Free Product Thickness feet | Groundwater Elevation ft-MSL | Water Sample Field Date | **TPHG** LUFT Method µg/L | **Benzene** EPA 8021B* µg/L | **Toluene** EPA 8021B* µg/L | **Ethylbenzene** EPA 8021B* µg/L | **Total Xylenes** EPA 8021B* µg/L | **MTBE** EPA 8021B* µg/L | **MTBE** EPA 8260 µg/L | **TRPH** EPA 418.1 µg/L | **TPHD** LUFT Method µg/L | Dissolved Oxygen mg/L | Purged/ Not Purged P/NP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7 | 04-15-98 | 38.68 | 13.02 | ND | 25.66 | 04-15-98 | <10,000 | <100 | <100 | <100 | <100 | 8,900 | - - | - - | - - | | |
| MW-7 | 07-24-98 | 38.68 | 14.18 | ND | 24.50 | 07-24-98 | 5,800 | 180 | <50 | 74 | <50 | 4,200 | - - | - - | - - | | |
| MW-7 | 10-19-98 | 38.68 | 15.99 | ND | 22.69 | 10-19-98 | <2,500 | 54 | <25 | 72 | <25 | 3,000 | - - | - - | - - | | |
| MW-7 | 01-28-99 | 38.68 | 15.69 | ND | 22.99 | 01-28-99 | 4,500 | 560 | 250 | <50 | 94 | 6,200 | - - | - - | - - | | |
| MW-7 | 06-25-99 | 38.68 | 15.36 | ND | 23.32 | 06-25-99 | 3,900 | 520 | 160 | 46 | 100 | 45,000 | 63,000[3] | - - | - - | 0.56 | NP |
| MW-7 | 08-25-99 | 38.68 | 16.71 | ND | 21.97 | 08-25-99 | 3,400 | 730 | 77 | 51 | 110 | 62,000 | 76,000[3] | - - | - - | 0.90 | NP |
| MW-7 | 11-10-99 | 38.68 | 16.76 | ND | 21.92 | 11-10-99 | 15,000 | 340 | 19 | 13 | 20 | 55,000 | 91,000[3] | - - | - - | 0.37 | NP |
| MW-7 | 02-09-00 | 38.68 | 14.45 | 0.03 | 24.25 [1] | 02-09-00 | Not sampled: free product present | | | | | | | | | | |

ft-MSL: elevation in feet, relative to mean sea level
TPHG: total petroleum hydrocarbons as gasoline, California DHS LUFT Method
MTBE: Methyl tert-butyl ether
TRPH: total recoverable petroleum hydrocarbons
TPHD: total petroleum hydrocarbons as diesel, California DHS LUFT Method
*: EPA method 8020 prior to 11/10/99
EPA: United States Environmental Protection Agency
µg/L: micrograms per liter
mg/L: milligrams per liter
ND: none detected
- -: not available or not analyzed
<: less than laboratory detection limit stated to the right
[1]: [corrected elevation (Z')] = Z + (h * 0.73) where: Z = measured elevation, h = floating product thickness, 0.73 = density ratio of oil to water
[2]: chromatogram fingerprint is not characteristic of diesel
[3]: also analyzed for fuel oxygenates
[4]: this value is suspected to be erroneous based on subsequent check by bailer (following day). See discussion

# Table 2
## Groundwater Flow Direction and Gradient

## ARCO Service Station 2111
## 1156 Davis Street, San Leandro, California

| Date Measured | Average Flow Direction | Average Hydraulic Gradient |
|---|---|---|
| 08-01-95 | NR | NR |
| 12-14-95 | West | 0.002 |
| 03-21-96 | West-Southwest | 0.005 |
| 05-24-96 | West | 0.003 |
| 08-09-96 | West-Northwest | 0.01 |
| 11-06-96 | West-Northwest | 0.007 |
| 03-24-97 | West | 0.005 |
| 05-27-97 | North-Northwest | 0.006 |
| 08-07-97 | West | 0.009 |
| 11-10-97 | West | 0.002 |
| 02-16-98 | South-Southwest | 0.013 |
| 04-15-98 | West-Southwest | 0.014 |
| 07-24-98 | Northwest | 0.01 |
| 10-19-98 | West | 0.008 |
| 01-28-99 | Southwest | 0.01 |
| 06-25-99 | North-Northwest | 0.017 |
| 08-25-99 | West-Northwest | 0.005 |
| 11-10-99 | West-Southwest | 0.002 |
| **02-09-00** | **West-Northwest** | **0.015** |

NR: not recorded

# Table 3
# Fuel Oxygenates

## ARCO Service Station 2111
## 1156 Davis Street, San Leandro, California

| Well I.D. Number | Field Date | TBA EPA 8260 ug/L | MTBE EPA 8260 ug/L | DIPE EPA 8260 ug/L | ETBE EPA 8260 ug/L | TAME EPA 8260 ug/L |
|---|---|---|---|---|---|---|
| MW-2 | 06-25-99 | <25,000 | 17,000 | <2,500 | <2,500 | <2,500 |
| MW-2 | 08-25-99 | <10,000 | 9,400 | <1,000 | <1,000 | <1,000 |
| MW-2 | 11-10-99 | <25,000 | 21,000 | <2,500 | <2,500 | <2,500 |
| MW-2 | 02-09-00 | <50,000 | 55,000 | <5,000 | <5,000 | <5,000 |
| MW-7 | 06-25-99 | <50,000 | 63,000 | <5,000 | <5,000 | <5,000 |
| MW-7 | 08-25-99 | <50,000 | 76,000 | <5,000 | <5,000 | <5,000 |
| MW-7 | 11-10-99 | <50,000 | 91,000 | <5,000 | <5,000 | <5,000 |
| MW-7 | 02-09-00 | Not sampled: free product present | | | | |

TBA = Tert-butyl alcohol
MTBE = Methyl-tert-Butyl Ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
EPA = Environmental Protection Agency
ug/L = Microgram per liter
< = less than laboratory detection limit to the right

## Table 4
## Approximate Cumulative Floating Product Recovered

## ARCO Service Station 2111
## 1156 Davis Street, San Leandro, California

| Well Desig-nation | Product Recovery Field Date | Floating Product Thickness (feet) | Floating Product Recovered (gallons) |
|---|---|---|---|
| MW-2 | 06/28/99 | 0.45 | 0.3 |
| MW-2 | 06/30/99 | 0.015 | 0.01 |
| MW-2 | 07/07/99 | 0.06 | 0.04 |
| MW-2 | 07/23/99 | 0.008 | 0.005 |
| MW-2 | 08/25/99 | 0.02 | 0.013 |
| MW-2 | 09/21/99 | 0.01 | 0.013 |
| MW-2 | 11/10/99 | ND | 0.00 |
| MW-2 | 02/09/00 | ND | 0.00 |
| MW-7 | 02/09/00 | 0.03 | 0.00 |
| Cumulative Floating Product recoverd (gallons): | | | **0.381** |

ND: not detected

## Table 5
## High Vacuum Extraction Pilot Test
## Extracted Groundwater Analytical Data

## ARCO Service Station No. 2111
## 1156 Davis Street, San Leandro, California

| Date (mm/dd/yy) | Sample No. (GW#) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzen (ug/L) | Xylene (ug/L) | MtBE[1] (ug/L) | tBA[2] (ug/L) |
|---|---|---|---|---|---|---|---|---|
| 11/15/1999 | GW1 | 33000 | 1300 | 4500 | 890 | 4700 | 18000 | <25000 |
| 11/15/1999 | GW2 | 30000 | 14000 | 1200 | 4400 | 760 | 14000 | <10000 |
| 11/16/1999 | GW3 | 5500 | 260 | 620 | 74 | 980 | 5700 | <5000 |
| 11/17/1999 | GW4 | 4700 | 200 | 500 | 38 | 830 | 3700 | 410 |
| 11/18/1999 | GW5 | 230 | 5.2 | 18 | 2.9 | 46 | 2100 | 340 |
| 11/19/1999 | GW6 | 1500 | 36 | 120 | 28 | 160 | 3100 | <2500 |

[1] MtBE and tBA analysis by EPA Method 8260

[2] tBA MRL was elevated due to high MtBE concentration requiring sample dilution

## Table 6
## High Vacuum Extraction Pilot Test
## Mass Removal from Groundwater

## ARCO Service Station No. 2111
## 1156 Davis Street, San Leandro, California

| Date (mm/dd/yy) | Sample No. (GW#) | Volume (gal) | TPHg (lbs)[3] | Benzene (lbs) | Toluene (lbs) | Ethylbenzene (lbs) | Xylene (lbs) | MtBE[1] (lbs) | tBA[2] (lbs) |
|---|---|---|---|---|---|---|---|---|---|
| 11/15/99 | GW1 | 395.2 | 0.109 | 0.004 | 0.015 | 0.003 | 0.015 | 0.059 | 0.082 |
| 11/16/99 | GW2 | 346.3 | 0.087 | 0.040 | 0.003 | 0.013 | 0.002 | 0.040 | 0.029 |
| 11/17/99 | GW3 | 631.5 | 0.029 | 0.001 | 0.003 | 0.000 | 0.005 | 0.030 | 0.026 |
| 11/18/99 | GW4 | 281.1 | 0.011 | 0.000 | 0.001 | 0.000 | 0.002 | 0.009 | 0.001 |
| 11/19/99 | GW5 | 77.4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 11/19/99 | GW6 | 757.8 | 0.009 | 0.000 | 0.001 | 0.000 | 0.001 | 0.020 | 0.016 |
| 12/07/99 | GW6 | 1400 | 0.017 | 0.000 | 0.001 | 0.000 | 0.002 | 0.036 | 0.029 |
| | | | | | | | | | |
| Total | | 3889 | 0.262 | 0.047 | 0.025 | 0.017 | 0.028 | 0.195 | 0.183 |

[1] MtBE and tBA analysis by EPA Method 8260

[2] tBA MRL was elevated due to high MtBE concentration requiring sample dilution

[3] Mass, lbs = (Concentration, ug/L)(10-6 g/ug)(2.2x10-3 lbs/g)(3.785 L/gal)(Volume, gal)

12/07/99: Extracted 1400-gallons from MW2 and MW7 by Vac Truck

## Table 7
## High Vacuum Extraction Pilot Test
## Extracted Vapor Analytical Data

## ARCO Service Station No. 2111
## 1156 Davis Street, San Leandro, California

| Date (mm/dd/yy) | Sample No. (V#) | TPHg (ppmv) | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Xylene (ppmv) | MtBE (ppmv) |
|---|---|---|---|---|---|---|---|
| 11/15/1999 | V1 | 1900 | 21 | 58 | 12 | 44 | 58 |
| 11/15/1999 | V2 | 2200 | 24 | 69 | 14 | 51 | 61 |
| 11/16/1999 | V3 | 1400 | 13 | 48 | 10 | 37 | 50 |
| 11/17/1999 | V4 | 760 | 3.4 | 23 | 5.5 | 20 | 28 |
| 11/18/1999 | V5 | 590 | 7.8 | 22 | 4.8 | 18 | 31 |
| 11/19/1999 | V6 | 830 | 7.2 | 29 | 7.1 | 25 | NA |

Analysis by EPA Method 8015M and 8020

## Table 8
## High Vacuum Extraction Pilot Test
## Mass Removal from Vapor

## ARCO Service Station No. 2111
## 1156 Davis Street, San Leandro, California

| Date (mm/dd/yy) | Air Flow (cfm) | TPHg (lbs)[1] | Benzene (lbs) | Toluene (lbs) | Ethylbenzene (lbs) | Xylene (lbs) | MtBE (lbs) |
|---|---|---|---|---|---|---|---|
| 11/15/1999 | 22 | 1.06 | 0.010 | 0.031 | 0.008 | 0.028 | 0.030 |
| 11/15/1999 | 23.5 | 4.51 | 0.040 | 0.137 | 0.032 | 0.117 | 0.116 |
| 11/16/1999 | 10.9 | 3.00 | 0.023 | 0.100 | 0.024 | 0.089 | 0.099 |
| 11/17/1999 | 30 | 9.78 | 0.036 | 0.287 | 0.079 | 0.288 | 0.335 |
| 11/18/1999 | 32 | 5.08 | 0.055 | 0.184 | 0.046 | 0.173 | 0.248 |
| 11/19/1999 | 32 | 11.2 | 0.080 | 0.379 | 0.107 | 0.377 | NA |
| | | | | | | | |
| Total | | 34.6 | 0.244 | 1.12 | 0.296 | 1.07 | 0.828 |

[1] Mass, lbs = [(Flow, cfm)(Concentration, ppmv)(g/mole)(Time, min)(28.3 L/cf)] / [($10^6$)(24.45 moles/L)(453.6 g/lb)]

where MW, g/mole: TPHg (C6-C12) = 95; Benzene = 78.1; Toluene = 92.1; Ethylbenzene = 106.2; Xylene = 106.2; MtBE = 88.2

# ATTACHMENT D

# EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

## Error Summary Log

*02/17/03*

EDF 1.2i All files present in deliverable.

| | |
|---|---|
| Laboratory: | Sequoia Analytical Laboratories, Inc., Morgan Hill, CA |
| Project Name: | ARCO #2111, San Leandro, |
| Work Order Number: | MLJ0430 |
| Global ID: | T0600101764 |
| Lab Report Number: | MLJ0430111420020636 |

# Report Summary

| Labreport | Sampid | Labsampid | Mtrx | QC | Anmcode | Exmcode | Logdate | Extdate | Anadate | Lablotctl | Run | Sub |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MLJ043011142002 0636 | MW-1 | MLJ043001 | W | CS | SW8020F | SW5030B | 10/10/02 | 10/22/02 | 10/22/02 | 2J22003 | 1 | |
| MLJ043011142002 0636 | MW-1 | MLJ043001 | W | CS | SW8260B | SW5030B | 10/10/02 | 11/01/02 | 11/01/02 | 2K01008 | 1 | |
| MLJ043011142002 0636 | MW-3 | MLJ043002 | W | CS | SW8020F | SW5030B | 10/10/02 | 10/21/02 | 10/21/02 | 2J21002 | 1 | |
| MLJ043011142002 0636 | MW-3 | MLJ043002 | W | CS | SW8260B | SW5030B | 10/10/02 | 11/01/02 | 11/01/02 | 2K01008 | 1 | |
| MLJ043011142002 0636 | MW-4 | MLJ043003 | W | CS | SW8020F | SW5030B | 10/10/02 | 10/22/02 | 10/22/02 | 2J22003 | 1 | |
| MLJ043011142002 0636 | MW-4 | MLJ043003 | W | CS | SW8260B | SW5030B | 10/10/02 | 11/01/02 | 11/01/02 | 2K01008 | 1 | |
| MLJ043011142002 0636 | MW-5 | MLJ043006 | W | CS | SW8020F | SW5030B | 10/10/02 | 10/24/02 | 10/24/02 | 2J24002 | 1 | |
| MLJ043011142002 0636 | MW-5 | MLJ043006 | W | CS | SW8260B | SW5030B | 10/10/02 | 11/01/02 | 11/01/02 | 2K01008 | 1 | |
| MLJ043011142002 0636 | MW-6 | MLJ043004 | W | CS | SW8020F | SW5030B | 10/10/02 | 10/22/02 | 10/22/02 | 2J22003 | 1 | |
| MLJ043011142002 0636 | MW-7 | MLJ043005 | W | CS | SW8020F | SW5030B | 10/10/02 | 10/22/02 | 10/22/02 | 2J22003 | 1 | |
| MLJ043011142002 0636 | MW-7 | MLJ043005 | W | CS | SW8260B | SW5030B | 10/10/02 | 11/01/02 | 11/01/02 | 2K01008 | 1 | |
| | | MLJ052101 | W | NC | SW8020F | SW5030B | / / | 10/24/02 | 10/24/02 | 2J24002 | 1 | |
| | | 2J21002BS1 | WQ | BS1 | SW8020F | SW5030B | / / | 10/21/02 | 10/21/02 | 2J21002 | 1 | |
| | | 2J21002BS2 | WQ | BS2 | SW8020F | SW5030B | / / | 10/21/02 | 10/21/02 | 2J21002 | 1 | |
| | | 2J21002BLK1 | WQ | LB1 | SW8020F | SW5030B | / / | 10/21/02 | 10/21/02 | 2J21002 | 1 | |
| | | 2J21002MS1 | W | MS1 | SW8020F | SW5030B | / / | 10/21/02 | 10/21/02 | 2J21002 | 1 | |
| | | 2J21002MSD1 | W | SD1 | SW8020F | SW5030B | / / | 10/21/02 | 10/21/02 | 2J21002 | 1 | |
| | | 2J22003BS1 | WQ | BS1 | SW8020F | SW5030B | / / | 10/22/02 | 10/22/02 | 2J22003 | 1 | |
| | | 2J22003BS2 | WQ | BS2 | SW8020F | SW5030B | / / | 10/22/02 | 10/22/02 | 2J22003 | 1 | |
| | | 2J22003BLK1 | WQ | LB1 | SW8020F | SW5030B | / / | 10/22/02 | 10/22/02 | 2J22003 | 1 | |
| | | 2J22003BLK2 | WQ | LB2 | SW8020F | SW5030B | / / | 10/22/02 | 10/22/02 | 2J22003 | 1 | |
| | | 2J22003MS1 | W | MS1 | SW8020F | SW5030B | / / | 10/22/02 | 10/22/02 | 2J22003 | 1 | |
| | | 2J22003MSD1 | W | SD1 | SW8020F | SW5030B | / / | 10/22/02 | 10/22/02 | 2J22003 | 1 | |
| | | 2J24002BS1 | WQ | BS1 | SW8020F | SW5030B | / / | 10/24/02 | 10/24/02 | 2J24002 | 1 | |
| | | 2J24002BS2 | WQ | BS2 | SW8020F | SW5030B | / / | 10/24/02 | 10/24/02 | 2J24002 | 1 | |
| | | 2J24002BLK1 | WQ | LB1 | SW8020F | SW5030B | / / | 10/24/02 | 10/24/02 | 2J24002 | 1 | |
| | | 2J24002MS1 | W | MS1 | SW8020F | SW5030B | / / | 10/24/02 | 10/24/02 | 2J24002 | 1 | |

# Report Summary

| Labreport | Sampid | Labsampid | Mtrx | QC | Anmcode | Exmcode | Logdate | Extdate | Anadate | Lablotctl | Run | Sub |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2J24002MSD1 | W | SD1 | SW8020F | SW5030B | / / | 10/24/02 | 10/24/02 | 2J24002 | 1 | |
| | | 2K01008BSD1 | WQ | BD1 | SW8260B | SW5030B | / / | 11/01/02 | 11/01/02 | 2K01008 | 1 | |
| | | 2K01008BS1 | WQ | BS1 | SW8260B | SW5030B | / / | 11/01/02 | 11/01/02 | 2K01008 | 1 | |
| | | 2K01008BLK1 | WQ | LB1 | SW8260B | SW5030B | / / | 11/01/02 | 11/01/02 | 2K01008 | 1 | |

# EDFSAMP: Error Summary Log

*02/17/03*

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

# EDFTEST: Error Summary Log

*02/17/03*

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

# EDFRES: Error Summary Log

*02/17/03*

| Error type | Labsampid | Qccode | Matrix | Anmcode | Pvccode | Anadate | Run number | Parlabel |
|---|---|---|---|---|---|---|---|---|
| Warning: extra parameter | 2J21002MS1 | MS1 | W | SW8020F | PR | 10/21/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J21002MS1 | MS1 | W | SW8020F | PR | 10/21/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J21002MSD1 | SD1 | W | SW8020F | PR | 10/21/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J21002MSD1 | SD1 | W | SW8020F | PR | 10/21/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J22003MS1 | MS1 | W | SW8020F | PR | 10/22/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J22003MS1 | MS1 | W | SW8020F | PR | 10/22/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J22003MSD1 | SD1 | W | SW8020F | PR | 10/22/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J22003MSD1 | SD1 | W | SW8020F | PR | 10/22/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J24002MS1 | MS1 | W | SW8020F | PR | 10/24/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J24002MS1 | MS1 | W | SW8020F | PR | 10/24/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J24002MSD1 | SD1 | W | SW8020F | PR | 10/24/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J24002MSD1 | SD1 | W | SW8020F | PR | 10/24/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ043001 | CS | W | SW8020F | PR | 10/22/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ043001 | CS | W | SW8020F | PR | 10/22/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ043001 | CS | W | SW8020F | PR | 10/22/02 | 1 | MTBE |
| Warning: extra parameter | MLJ043002 | CS | W | SW8020F | PR | 10/21/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ043002 | CS | W | SW8020F | PR | 10/21/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ043002 | CS | W | SW8020F | PR | 10/21/02 | 1 | MTBE |
| Warning: extra parameter | MLJ043003 | CS | W | SW8020F | PR | 10/22/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ043003 | CS | W | SW8020F | PR | 10/22/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ043003 | CS | W | SW8020F | PR | 10/22/02 | 1 | MTBE |
| Warning: extra parameter | MLJ043004 | CS | W | SW8020F | PR | 10/22/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ043004 | CS | W | SW8020F | PR | 10/22/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ043004 | CS | W | SW8020F | PR | 10/22/02 | 1 | MTBE |
| Warning: extra parameter | MLJ043005 | CS | W | SW8020F | PR | 10/22/02 | 1 | AAATFBZME |

| Error type | Labsampid | Qccode | Matrix | Anmcode | Pvccode | Anadate | Run number | Parlabel |
|---|---|---|---|---|---|---|---|---|
| Warning: extra parameter | MLJ043005 | CS | W | SW8020F | PR | 10/22/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ043005 | CS | W | SW8020F | PR | 10/22/02 | 1 | MTBE |
| Warning: extra parameter | MLJ043006 | CS | W | SW8020F | PR | 10/24/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ043006 | CS | W | SW8020F | PR | 10/24/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ043006 | CS | W | SW8020F | PR | 10/24/02 | 1 | MTBE |
| Warning: extra parameter | MLJ052101 | NC | W | SW8020F | PR | 10/24/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ052101 | NC | W | SW8020F | PR | 10/24/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J21002BLK1 | LB1 | WQ | SW8020F | PR | 10/21/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J21002BLK1 | LB1 | WQ | SW8020F | PR | 10/21/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J21002BLK1 | LB1 | WQ | SW8020F | PR | 10/21/02 | 1 | MTBE |
| Warning: extra parameter | 2J21002BS1 | BS1 | WQ | SW8020F | PR | 10/21/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J21002BS2 | BS2 | WQ | SW8020F | PR | 10/21/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J21002BS2 | BS2 | WQ | SW8020F | PR | 10/21/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J22003BLK1 | LB1 | WQ | SW8020F | PR | 10/22/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J22003BLK1 | LB1 | WQ | SW8020F | PR | 10/22/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J22003BLK1 | LB1 | WQ | SW8020F | PR | 10/22/02 | 1 | MTBE |
| Warning: extra parameter | 2J22003BLK2 | LB2 | WQ | SW8020F | PR | 10/22/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J22003BLK2 | LB2 | WQ | SW8020F | PR | 10/22/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J22003BLK2 | LB2 | WQ | SW8020F | PR | 10/22/02 | 1 | MTBE |
| Warning: extra parameter | 2J22003BS1 | BS1 | WQ | SW8020F | PR | 10/22/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J22003BS2 | BS2 | WQ | SW8020F | PR | 10/22/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J22003BS2 | BS2 | WQ | SW8020F | PR | 10/22/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J24002BLK1 | LB1 | WQ | SW8020F | PR | 10/24/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J24002BLK1 | LB1 | WQ | SW8020F | PR | 10/24/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J24002BLK1 | LB1 | WQ | SW8020F | PR | 10/24/02 | 1 | MTBE |
| Warning: extra parameter | 2J24002BS1 | BS1 | WQ | SW8020F | PR | 10/24/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J24002BS2 | BS2 | WQ | SW8020F | PR | 10/24/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J24002BS2 | BS2 | WQ | SW8020F | PR | 10/24/02 | 1 | GROC6C10 |

# EDFQC: Error Summary Log

*02/17/03*

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

# EDFCL: Error Summary Log

*02/17/03*

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

# AB2886 Electronic Delivery

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**Date/Time of Submittal:** 2/17/2003 11:10:18 AM
**Facility Global ID:** T0600101764
**Facility Name:** ARCO
**Submittal Title:** Fourth Quarter 2002 Groundwater Monitoring Report for Site #2111
**Submittal Type:** GW Monitoring Report

Logged in as URSCORP-OAKLAND (CONTRACTOR) CONTACT SITE ADMINISTRATOR.

# AB2886 Electronic Delivery



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