

December 9, 2005

Mr. Don Hwang  
Alameda County Environmental Health (ACEH)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Alameda County  
DEC 15 2005

**Re: Second Semi-Annual 2005 Groundwater Monitoring Report  
ARCO Service Station #6113  
785 East Stanley Boulevard  
Livermore, California  
ACEH Case #3883**

Dear Mr. Hwang:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Second Semi-Annual 2005 Groundwater Monitoring Report* for ARCO Service Station #6113, 785 East Stanley Boulevard, Livermore, California.

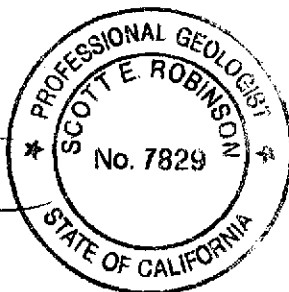
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

**URS CORPORATION**



Scott Robinson, P.G.  
Project Manager



Enclosure: *Second Semi-Annual 2005 Groundwater Monitoring Report*

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS  
Mr. Paul M. Smith/Ms. Danielle Stefani, Livermore-Pleasanton Fire Department,  
electronic copy uploaded to GeoTracker



Atlantic Richfield Company  
(a BP affiliated company)

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

December 9, 2005

Re: Second Semi-Annual 2005 Groundwater Monitoring Report  
ARCO Service Station #6113  
785 East Stanley Boulevard  
Livermore, CA  
ACEH Case ID #: 3883

ALAMEDA COUNTY  
DEC 15 2005

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

Submitted by:

Paul Supple  
Environmental Business Manager

**R E P O R T**

**SECOND SEMI-ANNUAL 2005  
GROUNDWATER MONITORING  
REPORT**

**ARCO SERVICE STATION #6113  
785 EAST STANLEY BOULEVARD  
LIVERMORE, CALIFORNIA**

*Prepared for*  
RM

December 9, 2005

**URS**

URS Corporation  
1333 Broadway, Suite 800  
Oakland, California 94612

Date: December 9, 2005  
Quarter: 4Q 05

## SECOND SEMI-ANNUAL 2005 GROUNDWATER MONITORING REPORT

Facility No.: 6113 Address: 785 East Stanley Boulevard, Livermore, California  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson  
Primary Agency: Alameda County Environmental Health (ACEH)  
Primary Agency Case #: 3883

### WORK PERFORMED THIS QUARTER (Fourth – 2005):

1. Prepared and submitted the Third Quarter 2005 Status Report.
2. Performed the second quarter semi-annual 2005 groundwater monitoring event on October 27, 2005.
3. Prepared and submitted this Second Semi-Annual 2005 Groundwater Monitoring Report.
4. Sampled onsite sanitary sewer per River Watch directive.
5. Well repairs performed on MW-3, MW-4, MW-9 and MW-10 on November 21, 2005.

### WORK PROPOSED FOR NEXT QUARTER (First – 2006):

1. Prepare and submit the First Quarter 2006 Status Report.
2. Sample onsite sanitary sewer per River Watch directive.
3. Install bio-sparge system per Riverwatch directive.

### SITE SUMMARY:

|                                       |  |
|---------------------------------------|--|
| Current Phase of Project:             | <u>Groundwater monitoring/sampling</u>   |
| Frequency of Groundwater Sampling:    | <u>Semi-Annually (2<sup>nd</sup>/4<sup>th</sup> Quarters): Wells MW-4, MW-6, MW-7, MW-11 through MW-13, VW-1</u><br><u>Annually (4<sup>th</sup> Quarter): Wells MW-3, MW-9 and MW-10</u> |
| Frequency of Groundwater Monitoring:  | <u>Semi-Annually (2<sup>nd</sup>/4<sup>th</sup> Quarters)</u>  |
| Is Free Product (FP) Present On-Site: | <u>None</u>  |
| Bulk Soil Removed to Date:            | <u>288 cubic yards of TPH impacted soil</u>  |
| Current Remediation Techniques:       | <u>None</u>  |
| Approximate Depth to Groundwater:     | <u>17.14 (MW-8) to 21.98 (MW-11) feet</u>  |
| Groundwater Gradient (direction):     | <u>North-Northwest</u>   |
| Groundwater Gradient (magnitude):     | <u>0.01 to 0.03 feet per foot</u>  |

### DISCUSSION:

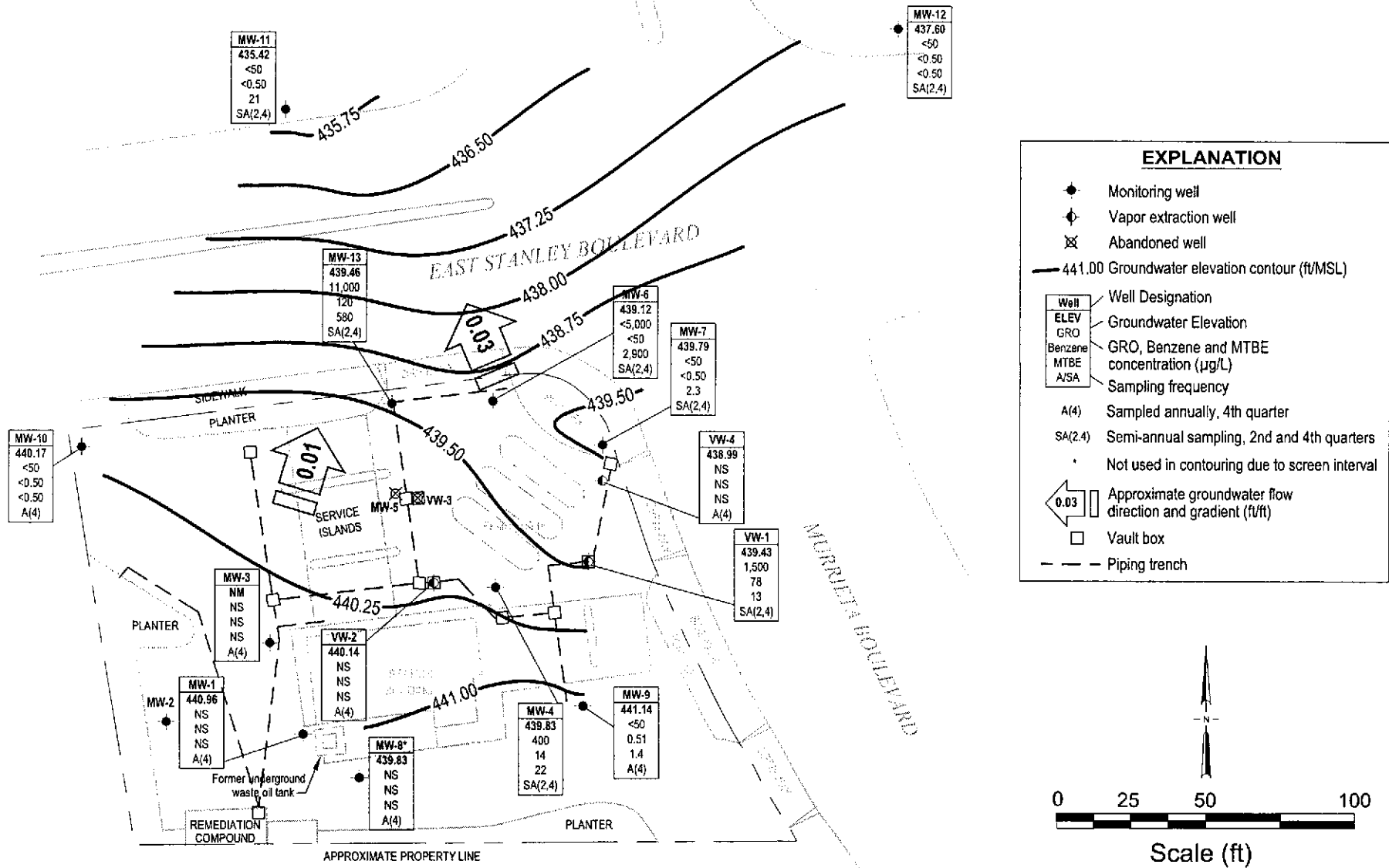
Gasoline range organics were detected at or above the laboratory reporting limit in three of the nine wells sampled this quarter at concentrations ranging from 400 micrograms per liter ( $\mu\text{g/L}$ ) (MW-4) to 11,000  $\mu\text{g/L}$  (MW-13). Benzene was detected at or above the laboratory reporting limit in four wells at concentrations ranging from 0.51  $\mu\text{g/L}$  (MW-9) to 120  $\mu\text{g/L}$  (MW-13). Toluene was detected at or above the laboratory reporting limit in two wells at concentrations of 12  $\mu\text{g/L}$  (MW-13) and 73  $\mu\text{g/L}$  (VW-1). Ethylbenzene was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 11  $\mu\text{g/L}$  (MW-4) to 1,500  $\mu\text{g/L}$  (MW-13). Xylenes were detected at or above the laboratory reporting limit in three wells at concentrations ranging from 1.8  $\mu\text{g/L}$

(MW-4) to 450 µg/L (MW-13). Methyl tert-butyl ether was detected at or above the laboratory reporting limit in seven wells at concentrations ranging from 1.4 µg/L (MW-9) to 2,900 µg/L (MW-6). No other fuel components were detected at or above their respective laboratory reporting limits.

Well MW-3 could not be sampled as the bolts securing the wellbox lid were stripped. The well will be repaired prior to the next sampling event.

**ATTACHMENTS:**

- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – October 27, 2005
- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Fuel Additives Analytical Data
- Table 3 - Groundwater Flow Direction and Gradient
- Attachment A - Field Procedures and Field Data Sheets
- Attachment B - Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C – Error Check Reports and EDF/Geowell Submittal Confirmations
- Attachment D – Well Repair Data Sheets



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

|  |   |  |                    |
|--|---|--|--------------------|
|  | Project No. 38487189<br>ARCO Service Station #6113<br>785 East Stanley Boulevard<br>Livermore, California | <b>GROUNDWATER ELEVATION CONTOUR<br/>                 AND ANALYTICAL SUMMARY MAP</b><br>Fourth Quarter 2005 (October 27, 2005) | FIGURE<br><b>1</b> |
|  | URS   |  |                    |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No.   | Date       | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH |
|------------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|----|
| MW-1       | 3/23/1995  | --    | e                   | 457.04       | 29.00                  | 44.00                     | 14.12        | 442.92       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 5/31/1995  | --    | e                   | 457.04       | 29.00                  | 44.00                     | 14.45        | 442.59       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 8/31/1995  | --    | e                   | 457.04       | 29.00                  | 44.00                     | 17.12        | 439.92       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 11/28/1995 | --    |                     | 457.04       | 29.00                  | 44.00                     | 16.34        | 440.70       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|            | 2/22/1996  | --    | e                   | 457.04       | 29.00                  | 44.00                     | 13.23        | 443.81       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 5/23/1996  | --    | e                   | 457.04       | 29.00                  | 44.00                     | 14.02        | 443.02       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 8/8/1996   | --    | e                   | 457.04       | 29.00                  | 44.00                     | 16.13        | 440.91       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 11/7/1996  | --    |                     | 457.04       | 29.00                  | 44.00                     | 17.28        | 439.76       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|            | 3/27/1997  | --    | e                   | 457.04       | 29.00                  | 44.00                     | 14.91        | 442.13       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 5/19/1997  | --    | e                   | 457.04       | 29.00                  | 44.00                     | 16.47        | 440.57       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 5/18/1998  | --    | e                   | 457.04       | 29.00                  | 44.00                     | 14.69        | 442.35       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 11/2/1998  | --    |                     | 457.04       | 29.00                  | 44.00                     | 25.94        | 431.10       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|            | 6/4/1999   | --    | e                   | 457.04       | 29.00                  | 44.00                     | 17.38        | 439.66       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 11/11/1999 | P     |                     | 457.04       | 29.00                  | 44.00                     | 18.63        | 438.41       | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 1.03      | -- |
|            | 6/20/2000  | --    | e                   | 457.04       | 29.00                  | 44.00                     | 17.09        | 439.95       | --                | --             | --             | --                   | --                   | --          | 3.1       | -- |
|            | 8/29/2000  | --    | e                   | 457.04       | 29.00                  | 44.00                     | 18.20        | 438.84       | --                | --             | --             | --                   | --                   | --          | 2.66      | -- |
|            | 11/29/2000 | P     |                     | 457.04       | 29.00                  | 44.00                     | 20.30        | 436.74       | <50.0             | <0.500         | <0.500         | <0.500               | 1.36                 | <2.50       | 0.71      | -- |
|            | 5/2/2001   | --    | e                   | 457.04       | 29.00                  | 44.00                     | 22.39        | 434.65       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 8/15/2001  | --    | e                   | 457.04       | 29.00                  | 44.00                     | 24.97        | 432.07       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 10/5/2001  | P     |                     | 457.04       | 29.00                  | 44.00                     | 25.09        | 431.95       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 0.78      | -- |
| 1/21/2002  | --         | e     | 457.04              | 29.00        | 44.00                  | 24.58                     | 432.46       | --           | --                | --             | --             | --                   | --                   | --          | --        |    |
| 4/26/2002  | --         | e     | 457.04              | 29.00        | 44.00                  | 24.19                     | 432.85       | --           | --                | --             | --             | --                   | --                   | --          | --        |    |
| 10/7/2002  | --         |       | 457.04              | 29.00        | 44.00                  | 20.13                     | 436.91       | <50          | <0.50             | <0.50          | <0.50          | <0.50                | <0.50                | 1.8         | --        |    |
| 05/01/2003 | --         | r     | 457.04              | 29.00        | 44.00                  | 17.98                     | 439.06       | --           | --                | --             | --             | --                   | --                   | --          | --        |    |
| 10/27/2005 | --         |       | 459.41              | 29.00        | 44.00                  | 18.45                     | 440.96       | --           | --                | --             | --             | --                   | --                   | --          | --        |    |
| MW-2       | 3/23/1995  | --    |                     | 457.74       | 28.00                  | 38.00                     | 14.15        | 443.59       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 5/31/1995  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 14.67        | 443.07       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 8/31/1995  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 17.24        | 440.50       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 11/28/1995 | --    |                     | 457.74       | 28.00                  | 38.00                     | 16.40        | 441.34       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|            | 2/22/1996  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 13.55        | 444.19       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 5/23/1996  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 14.29        | 443.45       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 8/8/1996   | --    | e                   | 457.74       | 28.00                  | 38.00                     | 16.19        | 441.55       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 11/7/1996  | --    |                     | 457.74       | 28.00                  | 38.00                     | 17.50        | 440.24       | 65                | 0.6            | 7.4            | 2.1                  | 12                   | 5           | --        | -- |
|            | 3/27/1997  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 15.32        | 442.42       | --                | --             | --             | --                   | --                   | --          | --        | -- |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No.   | Date       | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L)   | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L)        | DO (mg/L) | pH |
|------------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|---------------------|----------------|----------------|----------------------|----------------------|--------------------|-----------|----|
| MW-2       | 5/19/1997  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 16.62        | 441.12       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 5/18/1998  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 15.12        | 442.62       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 11/2/1998  | --    |                     | 457.74       | 28.00                  | 38.00                     | 26.66        | 431.08       | <50                 | <0.5           | <0.5           | <0.5                 | <0.5                 | <3                 | --        | -- |
|            | 6/4/1999   | --    | e                   | 457.74       | 28.00                  | 38.00                     | 17.74        | 440.00       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 11/11/1999 | P     |                     | 457.74       | 28.00                  | 38.00                     | 18.75        | 438.99       | <50                 | <0.5           | <0.5           | <0.5                 | <1                   | <3                 | 0.82      | -- |
|            | 6/20/2000  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 17.21        | 440.53       | --                  | --             | --             | --                   | --                   | --                 | 2.6       | -- |
|            | 8/29/2000  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 18.25        | 439.49       | --                  | --             | --             | --                   | --                   | --                 | 2.65      | -- |
|            | 11/29/2000 | P     |                     | 457.74       | 28.00                  | 38.00                     | 20.69        | 437.05       | <50.0               | <0.500         | 0.581          | 0.827                | 4.38                 | <2.50              | 0.88      | -- |
|            | 5/2/2001   | --    | e                   | 457.74       | 28.00                  | 38.00                     | 22.69        | 435.05       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 8/15/2001  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 25.15        | 432.59       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 10/5/2001  | P     |                     | 457.74       | 28.00                  | 38.00                     | 25.22        | 432.52       | <50                 | <0.50          | <0.50          | <0.50                | <0.50                | <2.5               | 0.8       | -- |
|            | 1/21/2002  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 24.70        | 433.04       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 4/26/2002  | --    | e                   | 457.74       | 28.00                  | 38.00                     | 24.53        | 433.21       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 10/7/2002  | --    |                     | 457.74       | 28.00                  | 38.00                     | 19.45        | 438.29       | <50                 | <0.50          | <0.50          | <0.50                | <0.50                | <0.50              | 1.5       | -- |
|            | 05/01/2003 | --    | r                   | 457.74       | 28.00                  | 38.00                     | 18.18        | 439.56       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
| 10/27/2005 | --         | t     | 460.07              | 28.00        | 38.00                  | --                        | --           | --           | --                  | --             | --             | --                   | --                   | --                 | --        |    |
| MW-3       | 3/23/1995  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 14.13        | 442.84       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 5/31/1995  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 14.46        | 442.51       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 8/31/1995  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 17.06        | 439.91       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 11/28/1995 | --    |                     | 456.97       | 28.50                  | 38.50                     | 16.27        | 440.70       | <50                 | <0.5           | <0.5           | <0.5                 | <0.5                 | <3                 | --        | -- |
|            | 2/22/1996  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 13.14        | 443.83       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 5/23/1996  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 13.95        | 443.02       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 8/8/1996   | --    | e                   | 456.97       | 28.50                  | 38.50                     | 16.03        | 440.94       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 11/7/1996  | --    |                     | 456.97       | 28.50                  | 38.50                     | 17.26        | 439.71       | <50                 | <0.5           | 0.9            | <0.5                 | 1.5                  | <3                 | --        | -- |
|            | 3/27/1997  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 14.85        | 442.12       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 5/19/1997  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 16.40        | 440.57       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 5/18/1998  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 14.66        | 442.31       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 11/2/1998  | --    |                     | 456.97       | 28.50                  | 38.50                     | 25.85        | 431.12       | <1,000 <sup>2</sup> | <10            | <10            | <10                  | <10                  | 1,700 <sup>2</sup> | --        | -- |
|            | 6/4/1999   | --    | e                   | 456.97       | 28.50                  | 38.50                     | 17.35        | 439.62       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |
|            | 11/11/1999 | P     |                     | 456.97       | 28.50                  | 38.50                     | 18.58        | 438.39       | <50                 | <0.5           | <0.5           | <0.5                 | <1                   | <3                 | 0.79      | -- |
|            | 6/20/2000  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 17.03        | 439.94       | --                  | --             | --             | --                   | --                   | --                 | 2.8       | -- |
|            | 8/29/2000  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 18.25        | 438.72       | --                  | --             | --             | --                   | --                   | --                 | 3.39      | -- |
|            | 11/29/2000 | --    |                     | 456.97       | 28.50                  | 38.50                     | 20.27        | 436.70       | <50.0               | <0.500         | <0.500         | 1.08                 | 3.34                 | <2.50              | 0.67      | -- |
|            | 5/2/2001   | --    | e                   | 456.97       | 28.50                  | 38.50                     | 22.33        | 434.64       | --                  | --             | --             | --                   | --                   | --                 | --        | -- |



Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No. | Date       | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH  |
|----------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|-----|
| MW-3     | 8/15/2001  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 25.03        | 431.94       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/5/2001  | P     |                     | 456.97       | 28.50                  | 38.50                     | 25.17        | 431.80       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 0.79      | --  |
|          | 1/21/2002  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 24.79        | 432.18       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 4/26/2002  | --    | e                   | 456.97       | 28.50                  | 38.50                     | 24.27        | 432.70       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/7/2002  | --    |                     | 456.97       | 28.50                  | 38.50                     | 20.20        | 436.77       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 1.2       | --  |
|          | 05/01/2003 | --    | c, e                | 456.97       | 28.50                  | 38.50                     | 18.27        | 438.70       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/03/2003 | P     | d                   | 456.97       | 28.50                  | 38.50                     | 20.07        | 436.90       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 5.2       | 7.3 |
|          | 04/06/2004 | --    | e                   | 459.32       | 28.50                  | 38.50                     | 17.24        | 442.08       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/28/2004 | P     |                     | 459.32       | 28.50                  | 38.50                     | 19.38        | 439.94       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 8.1       | 7.3 |
|          | 04/13/2005 | --    |                     | 459.32       | 28.50                  | 38.50                     | 16.02        | 443.30       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/27/2005 | --    | t                   | 459.32       | 28.50                  | 38.50                     | --           | --           | --                | --             | --             | --                   | --                   | --          | --        | --  |
| MW-4     | 3/23/1995  | --    |                     | 456.55       | 21.00                  | 27.00                     | 15.39        | 441.16       | 210               | 2.1            | 0.6            | 0.8                  | 2.1                  | --          | --        | --  |
|          | 5/31/1995  | --    |                     | 456.55       | 21.00                  | 27.00                     | 15.32        | 441.23       | 190               | 1.6            | <0.5           | 0.7                  | 0.9                  | --          | --        | --  |
|          | 8/31/1995  | --    |                     | 456.55       | 21.00                  | 27.00                     | 17.86        | 438.69       | 160               | 1.2            | 0.7            | <0.5                 | <2                   | <3          | --        | --  |
|          | 11/28/1995 | --    |                     | 456.55       | 21.00                  | 27.00                     | 17.18        | 439.37       | 150               | 0.7            | <0.5           | 0.7                  | 1.4                  | <3          | --        | --  |
|          | 2/22/1996  | --    |                     | 456.55       | 21.00                  | 27.00                     | 14.80        | 441.75       | 100               | <0.5           | <0.5           | <0.6                 | 0.8                  | <3          | --        | --  |
|          | 5/23/1996  | --    |                     | 456.55       | 21.00                  | 27.00                     | 14.43        | 442.12       | 86                | <0.5           | <0.5           | <0.5                 | <0.7                 | <3          | --        | --  |
|          | 8/8/1996   | --    |                     | 456.55       | 21.00                  | 27.00                     | 16.80        | 439.75       | 98                | <0.5           | <0.5           | <0.5                 | 1.3                  | <3          | --        | --  |
|          | 11/7/1996  | --    |                     | 456.55       | 21.00                  | 27.00                     | 17.90        | 438.65       | 140               | <0.5           | <0.5           | <0.9                 | 1.3                  | <3          | --        | --  |
|          | 3/27/1997  | --    |                     | 456.55       | 21.00                  | 27.00                     | 15.22        | 441.33       | <50               | 1.1            | <0.5           | <0.5                 | 1.6                  | <3          | --        | --  |
|          | 5/19/1997  | --    |                     | 456.55       | 21.00                  | 27.00                     | 16.98        | 439.57       | 62                | <0.5           | <0.5           | <0.5                 | 0.6                  | <3          | --        | --  |
|          | 5/18/1998  | --    |                     | 456.55       | 21.00                  | 27.00                     | 14.99        | 441.56       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | 64          | --        | --  |
|          | 11/2/1998  | --    |                     | 456.55       | 21.00                  | 27.00                     | 25.29        | 431.26       | 74                | <0.5           | <0.5           | <0.5                 | <0.5                 | 96          | --        | --  |
|          | 6/4/1999   | P     |                     | 456.55       | 21.00                  | 27.00                     | 17.95        | 438.60       | 100               | <0.5           | <0.5           | <0.5                 | <0.5                 | 38          | --        | --  |
|          | 11/11/1999 | P     |                     | 456.55       | 21.00                  | 27.00                     | 19.25        | 437.30       | 88                | <0.5           | <0.5           | <0.5                 | <1                   | 10          | 0.77      | --  |
|          | 6/20/2000  | --    | q                   | 456.55       | 21.00                  | 27.00                     | ---          | ---          | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | 62.3        | --        | --  |
|          | 6/20/2000  | P     |                     | 456.55       | 21.00                  | 27.00                     | 17.79        | 438.76       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | 82.4        | 1.3       | --  |
|          | 8/29/2000  | P     |                     | 456.55       | 21.00                  | 27.00                     | 18.90        | 437.65       | 56                | <0.500         | <0.500         | <0.500               | <0.500               | 47.9        | 0.97      | --  |
|          | 11/29/2000 | P     | s                   | 456.55       | 21.00                  | 27.00                     | 20.50        | 436.05       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | 9.88/10.4   | 0.59      | --  |
|          | 5/2/2001   | --    | s                   | 456.55       | 21.00                  | 27.00                     | ---          | ---          | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | 59.4/68.4   | --        | --  |
|          | 5/2/2001   | P     | q, s                | 456.55       | 21.00                  | 27.00                     | 22.65        | 433.90       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | 61.1/70.9   | 0.74      | --  |
|          | 8/15/2001  | --    | f                   | 456.55       | 21.00                  | 27.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/5/2001  | --    | f                   | 456.55       | 21.00                  | 27.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 1/21/2002  | --    | f                   | 456.55       | 21.00                  | 27.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No.   | Date       | P/ NP     | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH  |
|------------|------------|-----------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|-----|
| MW-4       | 4/26/2002  | P         |                     | 456.55       | 21.00                  | 27.00                     | 20.15        | 436.40       | 110               | <0.50          | <0.50          | <0.50                | <0.50                | 150         | 0.21      | --  |
|            | 10/7/2002  | P         | a                   | 456.55       | 21.00                  | 27.00                     | 20.76        | 435.79       | 96                | <0.50          | <0.50          | 0.54                 | <0.50                | 260         | 1.0       | --  |
|            | 05/01/2003 | P         | c                   | 456.55       | 21.00                  | 27.00                     | 19.67        | 436.88       | 120               | 1.3            | <0.50          | <0.50                | <0.50                | 86          | 1.7       | --  |
|            | 10/03/2003 | P         | d                   | 456.55       | 21.00                  | 27.00                     | 20.23        | 436.32       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 22          | 13.5      | 6.8 |
|            | 04/06/2004 | P         |                     | 458.88       | 21.00                  | 27.00                     | 18.13        | 440.75       | 96                | <0.50          | <0.50          | <0.50                | <0.50                | 17          | 1.6       | 6.8 |
|            | 10/28/2004 | P         |                     | 458.88       | 21.00                  | 27.00                     | 20.02        | 438.86       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 4.5         | 1.2       | 6.7 |
|            | 04/13/2005 | P         |                     | 458.88       | 21.00                  | 27.00                     | 16.68        | 442.20       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 2.8         | 0.8       | 6.7 |
|            | 10/27/2005 | P         |                     | 458.88       | 21.00                  | 27.00                     | 19.05        | 439.83       | 400               | 14             | <0.50          | 11                   | 1.8                  | 22          | 1.0       | 6.9 |
|            | MW-5       | 3/23/1995 | --                  |              | 455.84                 | 43.00                     | 63.00        | 13.97        | 441.87            | 68             | 4.2            | 3.4                  | 2.3                  | 12          | --        | --  |
| 5/31/1995  |            | --        | g                   | 455.84       | 43.00                  | 63.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
| 8/31/1995  |            | --        | g                   | 455.84       | 43.00                  | 63.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
| 11/28/1995 |            | --        |                     | 455.84       | 43.00                  | 63.00                     | 16.46        | 439.38       | 960               | 41             | 24             | 38                   | 210                  | <5          | --        | --  |
| 2/22/1996  |            | --        | f                   | 455.84       | 43.00                  | 63.00                     | 13.34        | 442.50       | --                | --             | --             | --                   | --                   | --          | --        | --  |
| 5/23/1996  |            | --        |                     | 455.84       | 43.00                  | 63.00                     | 14.36        | 441.48       | 7,100             | 440            | 180            | 270                  | 1,700                | <50         | --        | --  |
| 8/8/1996   |            | --        | f                   | 455.84       | 43.00                  | 63.00                     | 16.38        | 439.46       | --                | --             | --             | --                   | --                   | --          | --        | --  |
| 11/7/1996  |            | --        |                     | 455.84       | 43.00                  | 63.00                     | 17.26        | 438.58       | 5,600             | 230            | 86             | 210                  | 1,100                | <80         | --        | --  |
| 3/27/1997  |            | --        | f                   | 455.84       | 43.00                  | 63.00                     | 15.95        | 439.89       | --                | --             | --             | --                   | --                   | --          | --        | --  |
| 5/19/1997  |            | --        |                     | 455.84       | 43.00                  | 63.00                     | 16.64        | 439.20       | 7,600             | 480            | 140            | 400                  | 1,200                | <40         | --        | --  |
| 5/18/1998  |            | --        |                     | 455.84       | 43.00                  | 63.00                     | 14.75        | 441.09       | 990               | 46             | 13             | 45                   | 180                  | 4           | --        | --  |
| 11/2/1998  |            | --        |                     | 455.84       | 43.00                  | 63.00                     | 27.83        | 428.01       | 14,000            | 690            | 140            | 550                  | 2,200                | 100         | --        | --  |
| 6/4/1999   |            | P         |                     | 455.84       | 43.00                  | 63.00                     | 17.47        | 438.37       | 8,300             | 690            | 370            | 90                   | 440                  | 1,400       | --        | --  |
| 11/11/1999 |            | P         |                     | 455.84       | 43.00                  | 63.00                     | 18.80        | 437.04       | 18,000            | 900            | 190            | 1,100                | 3,200                | 72          | 0.86      | --  |
| 6/20/2000  |            | P         |                     | 455.84       | 43.00                  | 63.00                     | 17.14        | 438.70       | 10,200            | 618            | 122            | 832                  | 2,020                | <50.0       | 1.6       | --  |
| 8/29/2000  | P          |           | 455.84              | 43.00        | 63.00                  | 18.60                     | 437.24       | 12,300       | 436               | 166            | 711            | 2,120                | 517                  | 0.79        | --        |     |
| 11/29/2000 | P          | s         | 455.84              | 43.00        | 63.00                  | 20.57                     | 435.27       | 26,000*      | 491               | 149            | 1,090          | 3,810                | 671/<20.0            | 0.51        | --        |     |
| 5/2/2001   | --         | k         |                     | ---          | ---                    | ---                       | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
| MW-6       | 3/23/1995  | --        |                     | 454.93       | 48.00                  | 68.00                     | 13.38        | 441.55       | <50               | 1.5            | <0.5           | <0.5                 | 0.9                  | --          | --        | --  |
|            | 5/31/1995  | --        |                     | 454.93       | 48.00                  | 68.00                     | 13.96        | 440.97       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | --          | --        | --  |
|            | 8/31/1995  | --        |                     | 454.93       | 48.00                  | 68.00                     | 16.71        | 438.22       | 150               | 9              | 1.8            | 4                    | 12                   | <3          | --        | --  |
|            | 11/28/1995 | --        |                     | 454.93       | 48.00                  | 68.00                     | 15.65        | 439.28       | <50               | 0.6            | <0.5           | <0.5                 | 0.8                  | <3          | --        | --  |
|            | 2/22/1996  | --        |                     | 454.93       | 48.00                  | 68.00                     | 12.53        | 442.40       | <50               | 1.9            | <0.5           | 0.8                  | 2.1                  | <3          | --        | --  |
|            | 5/23/1996  | --        |                     | 454.93       | 48.00                  | 68.00                     | 13.24        | 441.69       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 8/8/1996   | --        |                     | 454.93       | 48.00                  | 68.00                     | 16.65        | 438.28       | <50               | 0.5            | <0.5           | <0.5                 | 0.5                  | <3          | --        | --  |

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No. | Date       | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH  |
|----------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|-----|
| MW-6     | 11/7/1996  | --    |                     | 454.93       | 48.00                  | 68.00                     | 16.65        | 438.28       | 110               | 5.3            | 1.3            | 3.1                  | 6.6                  | <3          | --        | --  |
|          | 3/27/1997  | --    |                     | 454.93       | 48.00                  | 68.00                     | 14.25        | 440.68       | <50               | 2.3            | <0.5           | 0.9                  | 3.5                  | 4           | --        | --  |
|          | 5/19/1997  | --    |                     | 454.93       | 48.00                  | 68.00                     | 15.87        | 439.06       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 5/18/1998  | --    |                     | 454.93       | 48.00                  | 68.00                     | 14.00        | 440.93       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 11/2/1998  | --    |                     | 454.93       | 48.00                  | 68.00                     | 24.95        | 429.98       | <50               | 1.2            | <0.5           | <0.5                 | <0.5                 | 3           | --        | --  |
|          | 6/4/1999   | P     |                     | 454.93       | 48.00                  | 68.00                     | 16.68        | 438.25       | 310               | 41             | 3.8            | 11                   | 19                   | 33          | --        | --  |
|          | 11/11/1999 | P     |                     | 454.93       | 48.00                  | 68.00                     | 16.12        | 438.81       | <50               | 0.5            | <0.5           | <0.5                 | <1                   | <3          | 0.92      | --  |
|          | 6/20/2000  | P     |                     | 454.93       | 48.00                  | 68.00                     | 16.63        | 438.30       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | 17.3        | 1.9       | --  |
|          | 8/29/2000  | --    | q                   | 454.93       | 48.00                  | 68.00                     | ---          | ---          | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | --        | --  |
|          | 8/29/2000  | P     |                     | 454.93       | 48.00                  | 68.00                     | 17.91        | 437.02       | <50.0             | <0.500         | 0.551          | <0.500               | <0.500               | <2.50       | 1.67      | --  |
|          | 11/29/2000 | P     |                     | 454.93       | 48.00                  | 68.00                     | 20.30        | 434.63       | <50.0             | <0.500         | <0.500         | <0.500               | 1.03                 | <2.50       | 0.79      | --  |
|          | 5/2/2001   | P     | s                   | 454.93       | 48.00                  | 68.00                     | 22.20        | 432.73       | 3,230             | 1,300          | 33.6           | 89.4                 | 136                  | 1,810/2,310 | 0.95      | --  |
|          | 8/15/2001  | P     | s                   | 454.93       | 48.00                  | 68.00                     | 27.95        | 426.98       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 21/25       | 0.63      | --  |
|          | 10/5/2001  | P     |                     | 454.93       | 48.00                  | 68.00                     | 28.05        | 426.88       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 0.85      | --  |
|          | 1/21/2002  | P     |                     | 454.93       | 48.00                  | 68.00                     | 26.81        | 428.12       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <5.0        | 0.91      | --  |
|          | 4/26/2002  | P     |                     | 454.93       | 48.00                  | 68.00                     | 26.27        | 428.66       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 17          | 0.75      | --  |
|          | 10/7/2002  | P     | a                   | 454.93       | 48.00                  | 68.00                     | 20.05        | 434.88       | 60                | 13             | 1.7            | 1.7                  | 3.5                  | 8           | 2.8       | --  |
|          | 05/01/2003 | P     | c                   | 454.93       | 48.00                  | 68.00                     | 17.62        | 437.31       | <50               | 5.4            | <0.50          | 0.63                 | 1.3                  | 12          | 1.6       | --  |
|          | 10/03/2003 | P     | d                   | 454.93       | 48.00                  | 68.00                     | 19.62        | 435.31       | 80                | 2.6            | <2.5           | <2.5                 | <2.5                 | 120         | 5.1       | 6.9 |
|          | 04/06/2004 | P     |                     | 457.24       | 48.00                  | 68.00                     | 16.88        | 440.36       | <2,500            | <25            | <25            | <25                  | <25                  | 1,700       | 4.1       | 7.0 |
|          | 10/28/2004 | P     |                     | 457.24       | 48.00                  | 68.00                     | 19.20        | 438.04       | 3,200             | <25            | <25            | <25                  | <25                  | 3,100       | 6.8       | 6.9 |
|          | 04/13/2005 | P     |                     | 457.24       | 48.00                  | 68.00                     | 15.15        | 442.09       | <5,000            | <50            | <50            | <50                  | <50                  | 3,900       | 3.9       | 7.0 |
|          | 10/27/2005 | P     |                     | 457.24       | 48.00                  | 68.00                     | 18.12        | 439.12       | <5,000            | <50            | <50            | <50                  | <50                  | 2,900       | 3.15      | 7.0 |
| MW-7     | 3/23/1995  | --    |                     | 454.92       | 48.00                  | 68.00                     | 13.29        | 441.63       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | --          | --        | --  |
|          | 5/31/1995  | --    |                     | 454.92       | 48.00                  | 68.00                     | 13.72        | 441.20       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | --          | --        | --  |
|          | 8/31/1995  | --    |                     | 454.92       | 48.00                  | 68.00                     | 16.53        | 438.39       | <50               | <0.5           | <0.5           | <0.5                 | 1.2                  | <3          | --        | --  |
|          | 11/28/1995 | --    |                     | 454.92       | 48.00                  | 68.00                     | 15.50        | 439.42       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 2/22/1996  | --    |                     | 454.92       | 48.00                  | 68.00                     | 12.30        | 442.62       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 5/23/1996  | --    |                     | 454.92       | 48.00                  | 68.00                     | 13.02        | 441.90       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 8/8/1996   | --    | m                   | 454.92       | 48.00                  | 68.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/7/1996  | --    |                     | 454.92       | 48.00                  | 68.00                     | 16.50        | 438.42       | <50               | <0.5           | <0.5           | <0.5                 | 0.8                  | <3          | --        | --  |
|          | 3/27/1997  | --    |                     | 454.92       | 48.00                  | 68.00                     | 14.22        | 440.70       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 5/19/1997  | --    |                     | 454.92       | 48.00                  | 68.00                     | 15.74        | 439.18       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 5/18/1998  | --    |                     | 454.92       | 48.00                  | 68.00                     | 13.82        | 441.10       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No.   | Date       | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH  |
|------------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|-----|
| MW-7       | 11/2/1998  | --    |                     | 454.92       | 48.00                  | 68.00                     | 24.80        | 430.12       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | 4           | --        | --  |
|            | 6/4/1999   | P     |                     | 454.92       | 48.00                  | 68.00                     | 16.55        | 438.37       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 11/11/1999 | P     |                     | 454.92       | 48.00                  | 68.00                     | 18.02        | 436.90       | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 1.03      | --  |
|            | 6/20/2000  | P     |                     | 454.92       | 48.00                  | 68.00                     | 16.50        | 438.42       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 1.3       | --  |
|            | 8/29/2000  | P     |                     | 454.92       | 48.00                  | 68.00                     | 17.80        | 437.12       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 1.67      | --  |
|            | 11/29/2000 | P     |                     | 454.92       | 48.00                  | 68.00                     | 19.61        | 435.31       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 0.51      | --  |
|            | 5/2/2001   | P     | s                   | 454.92       | 48.00                  | 68.00                     | 22.05        | 432.87       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50/2.66  | 0.9       | --  |
|            | 8/15/2001  | P     |                     | 454.92       | 48.00                  | 68.00                     | 27.55        | 427.37       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 0.84      | --  |
|            | 10/5/2001  | P     |                     | 454.92       | 48.00                  | 68.00                     | 27.59        | 427.33       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 0.62      | --  |
|            | 1/21/2002  | P     | s                   | 454.92       | 48.00                  | 68.00                     | 26.50        | 428.42       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 15/21       | 0.65      | --  |
|            | 4/26/2002  | P     |                     | 454.92       | 48.00                  | 68.00                     | 26.22        | 428.70       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 18          | 0.61      | --  |
|            | 10/7/2002  | --    |                     | 454.92       | 48.00                  | 68.00                     | 20.04        | 434.88       | <50               | 1.2            | <0.50          | <0.50                | 0.77                 | 41          | 4.8       | --  |
|            | 05/01/2003 | P     | c                   | 454.92       | 48.00                  | 68.00                     | 17.47        | 437.45       | <50               | <0.50          | <0.50          | <0.50                | 0.5                  | 43          | 2.7       | --  |
|            | 10/03/2003 | P     | d                   | 454.92       | 48.00                  | 68.00                     | 19.55        | 435.37       | <50               | <1.0           | <1.0           | <1.0                 | <1.0                 | 49          | 5.7       | 7.1 |
|            | 04/06/2004 | P     |                     | 457.17       | 48.00                  | 68.00                     | 16.60        | 440.57       | <50               | <0.50          | <0.50          | <0.50                | 0.75                 | 0.76        | 0.7       | 7.0 |
|            | 10/28/2004 | P     |                     | 457.17       | 48.00                  | 68.00                     | 19.17        | 438.00       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 14          | 6.7       | 6.9 |
|            | 04/13/2005 | P     |                     | 457.17       | 48.00                  | 68.00                     | 14.84        | 442.33       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 1.7         | 2.3       | 6.9 |
| 10/27/2005 | P          |       | 457.17              | 48.00        | 68.00                  | 17.38                     | 439.79       | <50          | <0.50             | <0.50          | <0.50          | <0.50                | 2.3                  | 2.16        | 7.0       |     |
| MW-8       | 3/23/1995  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 11.55        | 445.42       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 5/31/1995  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 12.37        | 444.60       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 8/31/1995  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 15.68        | 441.29       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 11/28/1995 | --    |                     | 456.97       | 47.00                  | 67.00                     | 14.15        | 442.82       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 2/22/1996  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 10.97        | 446.00       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 5/23/1996  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 11.90        | 445.07       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 8/8/1996   | --    | e                   | 456.97       | 47.00                  | 67.00                     | 13.85        | 443.12       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 11/7/1996  | --    |                     | 456.97       | 47.00                  | 67.00                     | 15.08        | 441.89       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 3/27/1997  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 12.96        | 444.01       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 5/19/1997  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 14.35        | 442.62       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 5/18/1998  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 12.97        | 444.00       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 11/2/1998  | --    |                     | 456.97       | 47.00                  | 67.00                     | 26.01        | 430.96       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 6/4/1999   | --    | e                   | 456.97       | 47.00                  | 67.00                     | 15.53        | 441.44       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 11/11/1999 | P     |                     | 456.97       | 47.00                  | 67.00                     | 16.67        | 440.30       | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 1.01      | --  |
|            | 6/20/2000  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 15.29        | 441.68       | --                | --             | --             | --                   | --                   | --          | 2.4       | --  |
|            | 8/29/2000  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 16.59        | 440.38       | --                | --             | --             | --                   | --                   | --          | 3.37      | --  |

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No. | Date       | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH |
|----------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|----|
| MW-8     | 11/29/2000 | P     |                     | 456.97       | 47.00                  | 67.00                     | 19.80        | 437.17       | <50.0             | <0.500         | <0.500         | <0.500               | 0.772                | <2.50       | 1.35      | -- |
|          | 5/2/2001   | --    | e                   | 456.97       | 47.00                  | 67.00                     | 22.12        | 434.85       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 8/15/2001  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 27.63        | 429.34       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 10/5/2001  | P     |                     | 456.97       | 47.00                  | 67.00                     | 27.65        | 429.32       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 1.07      | -- |
|          | 1/21/2002  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 26.73        | 430.24       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 4/26/2002  | --    | e                   | 456.97       | 47.00                  | 67.00                     | 26.39        | 430.58       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 10/7/2002  | --    |                     | 456.97       | 47.00                  | 67.00                     | 18.43        | 438.54       | <50               | <0.50          | <0.50          | <0.50                | 0.86                 | <0.50       | 4.2       | -- |
|          | 05/01/2003 | --    | r                   | 456.97       | 47.00                  | 67.00                     | 16.47        | 440.50       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 10/27/2005 | --    |                     | 456.97       | 47.00                  | 67.00                     | 17.14        | 439.83       | --                | --             | --             | --                   | --                   | --          | --        | -- |
| MW-9     | 3/23/1995  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 13.18        | 443.00       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 5/31/1995  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 12.66        | 443.52       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 8/31/1995  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 14.40        | 441.78       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 11/28/1995 | --    |                     | 456.18       | 48.00                  | 68.00                     | 14.26        | 441.92       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|          | 2/22/1996  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 12.05        | 444.13       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 5/23/1996  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 12.07        | 444.11       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 8/8/1996   | --    | e                   | 456.18       | 48.00                  | 68.00                     | 14.12        | 442.06       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 11/7/1996  | --    |                     | 456.18       | 48.00                  | 68.00                     | 15.42        | 440.76       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|          | 3/27/1997  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 13.01        | 443.17       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 5/19/1997  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 14.60        | 441.58       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 5/18/1998  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 12.60        | 443.58       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 11/2/1998  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 25.08        | 431.10       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 6/4/1999   | P     |                     | 456.18       | 48.00                  | 68.00                     | 15.87        | 440.31       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|          | 11/11/1999 | P     |                     | 456.18       | 48.00                  | 68.00                     | 17.02        | 439.16       | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 0.96      | -- |
|          | 6/20/2000  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 15.54        | 440.64       | --                | --             | --             | --                   | --                   | --          | 2.1       | -- |
|          | 8/29/2000  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 16.81        | 439.37       | --                | --             | --             | --                   | --                   | --          | 2.59      | -- |
|          | 11/29/2000 | P     |                     | 456.18       | 48.00                  | 68.00                     | 18.81        | 437.37       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 0.81      | -- |
|          | 5/2/2001   | --    | e                   | 456.18       | 48.00                  | 68.00                     | 22.09        | 434.09       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 8/15/2001  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 27.59        | 428.59       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 10/5/2001  | --    | q                   | 456.18       | 48.00                  | 68.00                     | 27.63        | 428.55       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | --        | -- |
|          | 10/5/2001  | P     |                     | 456.18       | 48.00                  | 68.00                     | 27.63        | 428.55       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 0.93      | -- |
|          | 1/21/2002  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 26.77        | 429.41       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 4/26/2002  | --    | e                   | 456.18       | 48.00                  | 68.00                     | 26.41        | 429.77       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 10/7/2002  | P     |                     | 456.18       | 48.00                  | 68.00                     | 18.85        | 437.33       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 2.6       | -- |
|          | 05/01/2003 | --    | c, e                | 456.18       | 48.00                  | 68.00                     | 17.84        | 438.34       | --                | --             | --             | --                   | --                   | --          | --        | -- |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No.   | Date       | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH   |     |
|------------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|------|-----|
| MW-9       | 10/03/2003 | P     | d                   | 456.18       | 48.00                  | 68.00                     | 18.69        | 437.49       | <50               | 1.1            | 0.57           | <0.50                | <0.50                | <0.50       | 4.9       | 6.8  |     |
|            | 04/06/2004 | --    | e                   | 458.55       | 48.00                  | 68.00                     | 16.08        | 442.47       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 10/28/2004 | P     |                     | 458.55       | 48.00                  | 68.00                     | 18.35        | 440.20       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 6.8       | 6.9  |     |
|            | 04/13/2005 | --    | e                   | 458.55       | 48.00                  | 68.00                     | 14.09        | 444.46       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 10/27/2005 | P     |                     | 458.55       | 48.00                  | 68.00                     | 17.41        | 441.14       | <50               | 0.51           | <0.50          | <0.50                | <0.50                | 1.4         | 2.56      | 7.0  |     |
| MW-10      | 3/23/1995  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 14.86        | 441.99       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 5/31/1995  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 15.63        | 441.22       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 8/31/1995  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 14.40        | 442.45       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 11/28/1995 | --    |                     | 456.85       | 32.00                  | 52.00                     | 17.24        | 439.61       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --   |     |
|            | 2/22/1996  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 14.30        | 442.55       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 5/23/1996  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 14.93        | 441.92       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 8/8/1996   | --    | e                   | 456.85       | 32.00                  | 52.00                     | 17.20        | 439.65       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 11/7/1996  | --    |                     | 456.85       | 32.00                  | 52.00                     | 18.25        | 438.60       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --   |     |
|            | 3/27/1997  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 15.77        | 441.08       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 5/19/1997  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 17.38        | 439.47       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 5/18/1998  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 15.47        | 441.38       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 11/2/1998  | --    |                     | 456.85       | 32.00                  | 52.00                     | 26.94        | 429.91       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --   |     |
|            | 6/4/1999   | --    | e                   | 456.85       | 32.00                  | 52.00                     | 17.19        | 439.66       | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
|            | 11/11/1999 | P     |                     | 456.85       | 32.00                  | 52.00                     | 19.35        | 437.50       | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 0.68      | --   |     |
|            | 6/20/2000  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 17.92        | 438.93       | --                | --             | --             | --                   | --                   | --          | --        | 2.9  | --  |
|            | 8/29/2000  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 19.15        | 437.70       | --                | --             | --             | --                   | --                   | --          | --        | 1.54 | --  |
|            | 11/29/2000 | P     |                     | 456.85       | 32.00                  | 52.00                     | 21.30        | 435.55       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 0.95      | --   |     |
|            | 5/2/2001   | --    | e                   | 456.85       | 32.00                  | 52.00                     | 29.95        | 426.90       | --                | --             | --             | --                   | --                   | --          | --        | --   | --  |
|            | 8/15/2001  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 30.74        | 426.11       | --                | --             | --             | --                   | --                   | --          | --        | --   | --  |
|            | 10/5/2001  | P     |                     | 456.85       | 32.00                  | 52.00                     | 30.95        | 425.90       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 0.89      | --   |     |
|            | 1/21/2002  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 28.97        | 427.88       | --                | --             | --             | --                   | --                   | --          | --        | --   | --  |
|            | 4/26/2002  | --    | e                   | 456.85       | 32.00                  | 52.00                     | 28.50        | 428.35       | --                | --             | --             | --                   | --                   | --          | --        | --   | --  |
|            | 10/7/2002  | --    |                     | 456.85       | 32.00                  | 52.00                     | 21.15        | 435.70       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | <0.50     | 3.0  | --  |
|            | 05/01/2003 | --    | c, e                | 456.85       | 32.00                  | 52.00                     | 18.90        | 437.95       | --                | --             | --             | --                   | --                   | --          | --        | --   | --  |
|            | 10/03/2003 | P     | d                   | 456.85       | 32.00                  | 52.00                     | 20.64        | 436.21       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | <0.50     | 2.4  | 7.1 |
|            | 04/06/2004 | --    | e                   | 459.20       | 32.00                  | 52.00                     | 17.99        | 441.21       | --                | --             | --             | --                   | --                   | --          | --        | --   | --  |
|            | 10/28/2004 | P     |                     | 459.20       | 32.00                  | 52.00                     | 20.27        | 438.93       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | <0.50     | 5.9  | 7.1 |
| 04/13/2005 | --         | e     | 459.20              | 32.00        | 52.00                  | 16.25                     | 442.95       | --           | --                | --             | --             | --                   | --                   | --          | --        | --   |     |
| 10/27/2005 | P          |       | 459.20              | 32.00        | 52.00                  | 19.03                     | 440.17       | <50          | <0.50             | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 3.38      | 7.2  |     |

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No. | Date       | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH  |
|----------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|-----|
| MW-11    | 3/23/1995  | --    |                     | 455.07       | 38.00                  | 45.00                     | 17.34        | 437.73       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 5/31/1995  | --    |                     | 455.07       | 38.00                  | 45.00                     | 16.68        | 438.39       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | --          | --        | --  |
|          | 8/31/1995  | --    | h                   | 455.07       | 38.00                  | 45.00                     | 20.20        | 434.87       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/28/1995 | --    |                     | 455.07       | 38.00                  | 45.00                     | 17.80        | 437.27       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 2/22/1996  | --    | h                   | 455.07       | 38.00                  | 45.00                     | 15.97        | 439.10       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 5/23/1996  | --    |                     | 455.07       | 38.00                  | 45.00                     | 15.50        | 439.57       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 8/8/1996   | --    | h                   | 455.07       | 38.00                  | 45.00                     | 17.77        | 437.30       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/7/1996  | --    |                     | 455.07       | 38.00                  | 45.00                     | 17.45        | 437.62       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 3/27/1997  | --    | h                   | 455.07       | 38.00                  | 45.00                     | 15.77        | 439.30       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 5/19/1997  | --    |                     | 455.07       | 38.00                  | 45.00                     | 16.80        | 438.27       | <50               | 1.1            | 4.5            | <0.5                 | 2.2                  | <3          | --        | --  |
|          | 5/18/1998  | --    |                     | 455.07       | 38.00                  | 45.00                     | 15.38        | 439.69       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 11/2/1998  | --    |                     | 455.07       | 38.00                  | 45.00                     | 24.15        | 430.92       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 6/4/1999   | P     |                     | 455.07       | 38.00                  | 45.00                     | 18.39        | 436.68       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 11/11/1999 | P     |                     | 455.07       | 38.00                  | 45.00                     | 18.62        | 436.45       | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 1.01      | --  |
|          | 6/20/2000  | P     |                     | 455.07       | 38.00                  | 45.00                     | 17.82        | 437.25       | <50.0             | 0.631          | <0.500         | <0.500               | <0.500               | <2.50       | 4.1       | --  |
|          | 8/29/2000  | --    | h                   | 455.07       | 38.00                  | 45.00                     | 19.50        | 435.57       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/29/2000 | P     |                     | 455.07       | 38.00                  | 45.00                     | 20.60        | 434.47       | <50.0             | <0.500         | <0.500         | <0.500               | 1.63                 | <2.50       | 0.97      | --  |
|          | 5/2/2001   | P     |                     | 455.07       | 38.00                  | 45.00                     | 22.42        | 432.65       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 1.04      | --  |
|          | 8/15/2001  | --    | h                   | 455.07       | 38.00                  | 45.00                     | 27.41        | 427.66       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/5/2001  | P     |                     | 455.07       | 38.00                  | 45.00                     | 27.59        | 427.48       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 1.05      | --  |
|          | 1/21/2002  | --    | h                   | 455.07       | 38.00                  | 45.00                     | 26.75        | 428.32       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 4/26/2002  | P     |                     | 455.07       | 38.00                  | 45.00                     | 26.50        | 428.57       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 0.47      | --  |
|          | 10/7/2002  | --    |                     | 455.07       | 38.00                  | 45.00                     | 20.79        | 434.28       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 1.0         | 1.4       | --  |
|          | 05/01/2003 | P     | c                   | 455.07       | 38.00                  | 45.00                     | 20.55        | 434.52       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 1.5         | 3.2       | --  |
|          | 10/03/2003 | P     | d                   | 455.07       | 38.00                  | 45.00                     | 20.58        | 434.49       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 3.1         | 3.0       | 7.1 |
|          | 04/06/2004 | P     |                     | 457.40       | 38.00                  | 45.00                     | 17.52        | 439.88       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 14          | 5.1       | 6.7 |
|          | 10/28/2004 | P     |                     | 457.40       | 38.00                  | 45.00                     | 20.32        | 437.08       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 29          | 1.3       | 7.2 |
|          | 04/13/2005 | P     |                     | 457.40       | 38.00                  | 45.00                     | 16.20        | 441.20       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 3.7         | 2.8       | 7.0 |
|          | 10/27/2005 | P     |                     | 457.40       | 38.00                  | 45.00                     | 21.98        | 435.42       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 21          | 1.04      | 7.2 |
| MW-12    | 3/23/1995  | --    | h                   | 455.04       | 18.00                  | 34.50                     | 15.54        | 439.50       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 5/31/1995  | --    |                     | 455.04       | 18.00                  | 34.50                     | 15.66        | 439.38       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | --          | --        | --  |
|          | 8/31/1995  | --    | h                   | 455.04       | 18.00                  | 34.50                     | 18.23        | 436.81       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/28/1995 | --    |                     | 455.04       | 18.00                  | 34.50                     | 17.53        | 437.51       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No. | Date       | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH  |
|----------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|-----|
| MW-12    | 2/22/1996  | --    | h                   | 455.04       | 18.00                  | 34.50                     | 14.45        | 440.59       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 5/23/1996  | --    |                     | 455.04       | 18.00                  | 34.50                     | 14.88        | 440.16       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 8/8/1996   | --    | h                   | 455.04       | 18.00                  | 34.50                     | 17.30        | 437.74       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/7/1996  | --    |                     | 455.04       | 18.00                  | 34.50                     | 18.30        | 436.74       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 3/27/1997  | --    | h                   | 455.04       | 18.00                  | 34.50                     | 15.69        | 439.35       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 5/19/1997  | --    |                     | 455.04       | 18.00                  | 34.50                     | 17.41        | 437.63       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 5/18/1998  | --    |                     | 455.04       | 18.00                  | 34.50                     | 15.21        | 439.83       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|          | 11/2/1998  | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 6/4/1999   | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/11/1999 | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 6/20/2000  | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 8/29/2000  | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/29/2000 | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 5/2/2001   | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 8/15/2001  | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/5/2001  | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 1/21/2002  | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 4/26/2002  | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/7/2002  | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 05/01/2003 | --    | c, m                | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/03/2003 | --    | m                   | 455.04       | 18.00                  | 34.50                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 04/06/2004 | P     |                     | 457.37       | 18.00                  | 34.50                     | 18.14        | 439.23       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 2.4       | 6.4 |
|          | 10/28/2004 | P     |                     | 457.37       | 18.00                  | 34.50                     | 20.66        | 436.71       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 1.7       | 6.8 |
|          | 04/13/2005 | P     |                     | 457.37       | 18.00                  | 34.50                     | 16.25        | 441.12       | <50               | <0.50          | <0.50          | <0.50                | 0.55                 | <0.50       | 1.9       | 7.5 |
|          | 10/27/2005 | P     |                     | 457.37       | 18.00                  | 34.50                     | 19.77        | 437.60       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 1.81      | 7.0 |
| MW-13    | 1/21/2002  | P     |                     | ---          | --                     | --                        | 24.61        | ---          | 15,000            | 160            | 68             | 1,700                | 3,200                | 4,900/5,200 | 0.71      | --  |
|          | 4/26/2002  | P     |                     | ---          | --                     | --                        | 24.20        | ---          | 17,000            | 98             | <100           | 1,700                | 3,400                | 1,600       | 0.6       | --  |
|          | 10/7/2002  | --    | b                   | ---          | --                     | --                        | 20.12        | ---          | 14,000            | 510            | <50            | 2,200                | 2,300                | 2,800       | 0.8       | --  |
|          | 05/01/2003 | P     | c                   | ---          | --                     | --                        | 17.82        | ---          | 21,000            | 230            | <50            | 1,900                | 2,300                | 1,600       | 1.9       | --  |
|          | 10/03/2003 | P     | d                   | --           | --                     | --                        | 19.91        | --           | 19,000            | 570            | 55             | 1,900                | 2,300                | 2,400       | 0.8       | 6.9 |
|          | 04/06/2004 | P     |                     | 457.91       | --                     | --                        | 17.14        | 440.77       | 15,000            | 470            | 35             | 1,600                | 1,300                | 1,800       | 2.0       | 6.7 |
|          | 10/28/2004 | P     |                     | 457.91       | --                     | --                        | 18.83        | 439.08       | 18,000            | 350            | <25            | 1,900                | 1,800                | 1,800       | 0.8       | 6.7 |
|          | 04/13/2005 | P     |                     | 457.91       | --                     | --                        | 15.23        | 442.68       | 9,700             | 110            | <25            | 860                  | 280                  | 920         | 0.9       | 6.9 |
|          | 10/27/2005 | P     |                     | 457.91       | --                     | --                        | 18.45        | 439.46       | 11,000            | 120            | 12             | 1,500                | 450                  | 580         | 0.75      | 6.8 |



Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No.   | Date       | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L)   | DO (mg/L) | pH  |     |
|------------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|------------------|----------------|----------------|----------------------|----------------------|---------------|-----------|-----|-----|
| VW-1       | 8/29/2000  | P     |                     | ---          | 24.00                  | 45.00                     | 17.40        | ---          | 2,360            | 27.6           | 11.6           | 26.3                 | 33.2                 | 110           | 4.47      | --  |     |
|            | 11/29/2000 | P     |                     | ---          | 24.00                  | 45.00                     | 18.75        | ---          | <50.0            | <0.500         | <0.500         | <0.500               | <0.500               | <2.50         | 0.46      | --  |     |
|            | 5/2/2001   | --    |                     | ---          | 24.00                  | 45.00                     | 21.59        | ---          | --               | --             | --             | --                   | --                   | --            | --        | --  |     |
|            | 8/15/2001  | --    | q                   | ---          | 24.00                  | 45.00                     | ---          | ---          | 1,200            | 6.2            | 4.1            | 1.8                  | 1.1                  | 20/17         | --        | --  |     |
|            | 8/15/2001  | P     | s                   | ---          | 24.00                  | 45.00                     | 24.62        | ---          | 1,200            | 6.3            | 4.3            | 1.7                  | 1.3                  | 20/17         | --        | --  |     |
|            | 10/5/2001  | P     | s                   | ---          | 24.00                  | 45.00                     | 24.75        | ---          | 1,500            | 140            | 55             | 28                   | 82                   | 610/660       | 0.71      | --  |     |
|            | 1/21/2002  | --    | q, s                | ---          | 24.00                  | 45.00                     | ---          | ---          | 8,000            | 770            | 320            | 96                   | 1,100                | 2,500/3,200   | --        | --  |     |
|            | 1/21/2002  | P     | s                   | ---          | 24.00                  | 45.00                     | 24.59        | ---          | 6,700            | 810            | 350            | 270                  | 1,100                | 2,600/3,400   | 0.69      | --  |     |
|            | 4/26/2002  | --    | q                   | ---          | 24.00                  | 45.00                     | ---          | ---          | 350              | 24             | 1.6            | 5.9                  | 1.6                  | 45            | --        | --  |     |
|            | 4/26/2002  | P     |                     | ---          | 24.00                  | 45.00                     | 24.27        | ---          | 370              | 26             | 2.1            | 6.6                  | 1.7                  | 48            | 0.5       | --  |     |
|            | 10/7/2002  | P     | b                   | ---          | 24.00                  | 45.00                     | 19.20        | ---          | 410              | 25             | 2.2            | 8                    | 4.3                  | 88            | 1.7       | --  |     |
|            | 05/01/2003 | P     | c                   | ---          | 24.00                  | 45.00                     | 16.60        | ---          | 240              | 6.4            | <0.50          | 3.3                  | 1.3                  | 36            | 1.7       | --  |     |
|            | 10/03/2003 | P     | d                   | ---          | 24.00                  | 45.00                     | 18.82        | --           | 180              | 1.5            | <0.50          | 0.69                 | <0.50                | 12            | 1.1       | 7.3 |     |
|            | 04/06/2004 | P     |                     | ---          | 457.08                 | 24.00                     | 45.00        | 15.78        | 441.30           | 300            | 2.2            | <0.50                | 3.0                  | 1.3           | 13        | 2.4 | 7.2 |
|            | 10/28/2004 | P     |                     | ---          | 457.08                 | 24.00                     | 45.00        | 18.33        | 438.75           | 210            | <0.50          | <0.50                | 0.67                 | <0.50         | <0.50     | 1.2 | 7.1 |
|            | 04/13/2005 | P     |                     | ---          | 457.08                 | 24.00                     | 45.00        | 14.02        | 443.06           | 740            | 1.8            | <0.50                | 3.6                  | 1.1           | 9.6       | 2.4 | 7.1 |
| 10/27/2005 | P          |       | ---                 | 457.08       | 24.00                  | 45.00                     | 17.65        | 439.43       | 1,500            | 78             | 73             | 36                   | 81                   | 13            | 1.64      | 7.3 |     |
| VW-2       | 8/29/2000  | --    | g                   | ---          | 28.00                  | 49.50                     | ---          | ---          | --               | --             | --             | --                   | --                   | --            | --        | --  |     |
|            | 11/29/2000 | --    | g                   | ---          | 28.00                  | 49.50                     | ---          | ---          | --               | --             | --             | --                   | --                   | --            | --        | --  |     |
|            | 5/2/2001   | --    |                     | ---          | 28.00                  | 49.50                     | ---          | ---          | --               | --             | --             | --                   | --                   | --            | --        | --  |     |
|            | 10/5/2001  | --    | g                   | ---          | 28.00                  | 49.50                     | ---          | ---          | --               | --             | --             | --                   | --                   | --            | --        | --  |     |
|            | 1/21/2002  | --    | g                   | ---          | 28.00                  | 49.50                     | ---          | ---          | --               | --             | --             | --                   | --                   | --            | --        | --  |     |
|            | 4/26/2002  | --    | m                   | ---          | 28.00                  | 49.50                     | ---          | ---          | --               | --             | --             | --                   | --                   | --            | --        | --  |     |
|            | 10/7/2002  | --    | g                   | ---          | 28.00                  | 49.50                     | ---          | ---          | --               | --             | --             | --                   | --                   | --            | --        | --  |     |
|            | 05/01/2003 | --    | c, g                | ---          | 28.00                  | 49.50                     | ---          | ---          | --               | --             | --             | --                   | --                   | --            | --        | --  |     |
|            | 10/03/2003 | --    | g                   | ---          | 28.00                  | 49.50                     | ---          | ---          | --               | --             | --             | --                   | --                   | --            | --        | --  |     |
|            | 04/06/2004 | --    |                     | ---          | 458.64                 | 28.00                     | 49.50        | 16.96        | 441.68           | --             | --             | --                   | --                   | --            | --        | --  |     |
|            | 10/28/2004 | --    |                     | ---          | 458.64                 | 28.00                     | 49.50        | 19.35        | 439.29           | --             | --             | --                   | --                   | --            | --        | --  |     |
| 04/13/2005 | --         |       | ---                 | 458.64       | 28.00                  | 49.50                     | 15.51        | 443.13       | --               | --             | --             | --                   | --                   | --            | --        |     |     |
| 10/27/2005 | --         |       | ---                 | 458.64       | 28.00                  | 49.50                     | 18.50        | 440.14       | --               | --             | --             | --                   | --                   | --            | --        |     |     |
| VW-3       | 8/29/2000  | P     |                     | ---          | 15.50                  | 24.00                     | 17.93        | ---          | 25,400           | 3,540          | 10,600         | 1,280                | 43,000               | 44,700        | --        | --  |     |
|            | 11/29/2000 | P     | s                   | ---          | 15.50                  | 24.00                     | 19.75        | ---          | 54,200           | 9,450          | 1,870          | 2,350                | 9,400                | 12,300/15,100 | 0.47      | --  |     |

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well No. | Date       | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH  |
|----------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|-----|
| VW-3     | 5/2/2001   | --    | k                   | ---          | 15.50                  | 24.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
| VW-4     | 8/29/2000  | --    | g                   | ---          | 17.00                  | 30.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/29/2000 | --    | q, s                | ---          | 17.00                  | 30.00                     | ---          | ---          | 36,100            | 3,700          | 206            | 1,850                | 7,890                | 6,430/8,460 | --        | --  |
|          | 11/29/2000 | P     | s                   | ---          | 17.00                  | 30.00                     | 19.45        | ---          | 37,500            | 4,510          | 206            | 2,100                | 9,030                | 6,770/7,880 | 0.42      | --  |
|          | 5/2/2001   | --    |                     | ---          | 17.00                  | 30.00                     | 21.66        | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 8/15/2001  | --    |                     | ---          | 17.00                  | 30.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/5/2001  | --    | f                   | ---          | 17.00                  | 30.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 1/21/2002  | --    | f                   | ---          | 17.00                  | 30.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 4/26/2002  | --    | f                   | ---          | 17.00                  | 30.00                     | ---          | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/7/2002  | --    |                     | ---          | 17.00                  | 30.00                     | 19.25        | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 05/01/2003 | --    | c                   | ---          | 17.00                  | 30.00                     | 17.29        | ---          | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/03/2003 | P     | d, n                | --           | 17.00                  | 30.00                     | 19.10        | --           | 48,000            | 3,300          | 1,700          | 3,600                | 21,000               | 1,600       | 10.5      | 6.7 |
|          | 04/06/2004 | --    |                     | 456.99       | 17.00                  | 30.00                     | 18.05        | 438.94       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/28/2004 | --    |                     | 456.99       | 17.00                  | 30.00                     | 18.71        | 438.28       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 04/13/2005 | --    |                     | 456.99       | 17.00                  | 30.00                     | 14.62        | 442.37       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/27/2005 | --    |                     | 456.99       | 17.00                  | 30.00                     | 18.00        | 438.99       | --                | --             | --             | --                   | --                   | --          | --        | --  |

## Table 1

### Groundwater Elevation and Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

#### SYMBOLS AND ABBREVIATIONS:

- = Not analyzed/applicable/measured/available  
< = Not detected at or above laboratory reporting limit  
BTEX = Benzene, toluene, ethylbenzene and xylenes  
DO = Dissolved oxygen  
DTW = Depth to water in ft bgs  
ft bgs = feet below ground surface  
ft MSL = feet above mean sea level  
GRO = Gasoline range organics, range C4-C12  
GWE = Groundwater elevation measured in ft MSL  
mg/L = Milligrams per liter  
MTBE = Methyl tert butyl ether  
NP = Well not purged prior to sampling  
P = Well purged prior to sampling  
TOC = Top of casing measured in ft MSL  
TPH-g = Total petroleum hydrocarbons as gasoline  
µg/L = Micrograms per liter

#### FOOTNOTES:

a = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.  
b = Chromatogram Pattern: C6-C10  
c = TPH-g, BTEX and MTBE analyzed using EPA Method 8260B beginning second quarter 2003 (05/01/03)  
d = This sample was analyzed 3 days after the EPA recommended holding time. The results may still be useful for their intended purpose.  
e = Well sampled annually in the fourth quarter  
f = Well dry  
g = Well inaccessible  
h = Well sampled semi-annually in second and fourth quarters  
k = Well abandoned  
m = Unable to locate well  
n = Sheen in well  
q = Duplicate sample  
r = Well removed from sampling schedule  
s = Original sample analyzed by 8021B and confirmation by 8260  
t = Bolts securing well box cover stripped at head. Unable to sample well.

#### NOTES:

Beginning in the second quarter 2003 (05/01/03) TPH-g, BTEX analyzed using EPA Method 8260B, and MTBE beginning in fourth quarter 2002. Prior to 05/01/03, TPH-g by modified EPA method 8015; BTEX by EPA method 8021B (EPA method 8020 before 11/11/99); MTBE by EPA method 8021B. (EPA method 8020 before 11/11/99). Any MTBE Detection by 8021B was confirmed by EPA method 8260 beginning Third Quarter 2000 (08-29-00 Results).  
Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.  
Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.  
Wells were resurveyed to NAVD '88 datum by URS Corporation on March 8, 2004.  
Values for DO and pH were obtained through field measurements.  
The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Table 2

**Fuel Additives Analytical Data**  
 ARCO Service Station #6113  
 785 East Stanley Blvd., Livermore, CA

| Well Number | Date Sampled | Ethanol (µg/L) | TBA (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Footnotes/ Comments |
|-------------|--------------|----------------|------------|-------------|-------------|-------------|-------------|----------------|------------|---------------------|
| MW-1        | 10/7/2002    | <40            | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
| MW-2        | 10/7/2002    | <40            | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
| MW-3        | 10/7/2002    | <40            | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/03/2003   | <100           | <20        | <0.50       | <1.0        | <1.0        | <1.0        | <0.50          | <0.50      | a                   |
|             | 10/28/2004   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
| MW-4        | 10/7/2002    | <400           | <200       | 260         | <5.0        | <5.0        | <5.0        | <5.0           | <5.0       |                     |
|             | 5/1/2003     | <100           | 25         | 86          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/03/2003   | <100           | <20        | 22          | <1.0        | <1.0        | <1.0        | <0.50          | <0.50      | a                   |
|             | 04/06/2004   | <100           | <20        | 17          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/28/2004   | <100           | <20        | 4.5         | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 04/13/2005   | <100           | <20        | 2.8         | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/27/2005   | <100           | <20        | 22          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
| MW-6        | 10/7/2002    | <40            | <20        | 8           | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 5/1/2003     | <100           | <20        | 12          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/03/2003   | <500           | <100       | 120         | <5.0        | <5.0        | <5.0        | <2.5           | <2.5       | a                   |
|             | 04/06/2004   | <5,000         | <1,000     | 1,700       | <25         | <25         | <25         | <25            | <25        |                     |
|             | 10/28/2004   | <5,000         | <1,000     | 3,100       | <25         | <25         | <25         | <25            | <25        |                     |
|             | 04/13/2005   | <10,000        | <2,000     | 3,900       | <50         | <50         | <50         | <50            | <50        |                     |
|             | 10/27/2005   | <10,000        | <2,000     | 2,900       | <50         | <50         | <50         | <50            | <50        | b                   |
| MW-7        | 10/7/2002    | <40            | <20        | 41          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 5/1/2003     | <100           | <20        | 43          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/03/2003   | <200           | <40        | 49          | <2.0        | <2.0        | <2.0        | <1.0           | <1.0       | a                   |
|             | 04/06/2004   | <100           | <20        | 0.76        | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/28/2004   | <100           | <20        | 14          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 04/13/2005   | <100           | <20        | 1.7         | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/27/2005   | <100           | <20        | 2.3         | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      | b                   |
| MW-8        | 10/7/2002    | <40            | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
| MW-9        | 10/7/2002    | <40            | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/03/2003   | <100           | <20        | <0.50       | <1.0        | <1.0        | <1.0        | <0.50          | <0.50      | a                   |
|             | 10/28/2004   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/27/2005   | <100           | <20        | 1.4         | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      | b                   |
| MW-10       | 10/7/2002    | <40            | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |

Table 2

Fuel Additives Analytical Data

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

| Well Number | Date Sampled | Ethanol (µg/L) | TBA (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Footnotes/ Comments |
|-------------|--------------|----------------|------------|-------------|-------------|-------------|-------------|----------------|------------|---------------------|
| MW-10       | 10/03/2003   | <100           | <20        | <0.50       | <1.0        | <1.0        | <1.0        | <0.50          | <0.50      | a                   |
|             | 10/28/2004   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/27/2005   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
| MW-11       | 10/7/2002    | <40            | <20        | 1.0         | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      | a                   |
|             | 5/1/2003     | <100           | <20        | --          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/03/2003   | <100           | <20        | 3.1         | <1.0        | <1.0        | <1.0        | <0.50          | <0.50      |                     |
|             | 04/06/2004   | <100           | <20        | 14          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/28/2004   | <100           | <20        | 29          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 04/13/2005   | <100           | <20        | 3.7         | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/27/2005   | <100           | <20        | 21          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
| MW-12       | 04/06/2004   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/28/2004   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 04/13/2005   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/27/2005   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
| MW-13       | 10/7/2002    | <4,000         | <2,000     | 2,800       | <50         | <50         | <50         | <50            | <50        | a                   |
|             | 5/1/2003     | <10,000        | <2,000     | --          | <50         | <50         | <50         | <50            | <50        |                     |
|             | 10/03/2003   | <10,000        | <2,000     | 2,400       | <100        | <100        | <100        | <50            | <50        |                     |
|             | 04/06/2004   | <5,000         | <1,000     | 1,800       | <25         | <25         | <25         | <25            | <25        |                     |
|             | 10/28/2004   | <5,000         | <1,000     | 1,800       | <25         | <25         | <25         | <25            | <25        |                     |
|             | 04/13/2005   | <5,000         | <1,000     | 920         | <25         | <25         | <25         | <25            | <25        |                     |
|             | 10/27/2005   | <2,000         | <400       | 580         | <10         | <10         | <10         | <10            | <10        |                     |
| VW-1        | 10/7/2002    | <80            | <40        | --          | <1.0        | <1.0        | <1.0        | <1.0           | <1.0       | a                   |
|             | 5/1/2003     | <100           | <20        | --          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/03/2003   | <100           | <20        | 12          | <1.0        | <1.0        | <1.0        | <0.50          | <0.50      |                     |
|             | 04/06/2004   | <100           | <20        | 13          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/28/2004   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 04/13/2005   | <100           | <20        | 9.6         | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 10/27/2005   | <100           | <20        | 13          | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
| VW-4        | 10/03/2003   | <100,000       | <20,000    | 1,600       | <1,000      | <1,000      | <1,000      | <500           | <500       | a                   |

**Table 2**

**Fuel Additives Analytical Data**

ARCO Service Station #6113  
785 East Stanley Blvd., Livermore, CA

**SYMBOLS AND ABBREVIATIONS:**

-- = Not analyzed/applicable/measured/available  
< = Not detected at or above the laboratory reporting limit.  
1,2-DCA = 1,2-Dichloroethane  
DIPE = Di-isopropyl ether  
EDB = 1,2-Dibromoethane  
ETBE = Ethyl tert-butyl ether  
MTBE = Methyl tert-butyl ether  
TAME = tert-Amyl methyl ether  
TBA = tert-Butyl alcohol  
ug/L = Micrograms per Liter

**FOOTNOTES:**

a = This sample was analyzed 3 days after the EPA recommended holding time. The results may still be useful for their intended purpose.  
b = Calibration verification for ethanol was within method limits but outside contract limits.

**NOTES:**

All volatile organic compounds analyzed using EPA Method 8260B.

The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

**Table 3**

**Groundwater Gradient Data**  
 ARCO Service Station #6113  
 785 East Stanley Blvd., Livermore, CA

| <b>Date Sampled</b> | <b>Approximate Flow Direction</b> | <b>Approximate Hydraulic Gradient</b> |
|---------------------|-----------------------------------|---------------------------------------|
| 3/23/1995           | Northwest                         | 0.035                                 |
| 5/31/1995           | North-Northwest                   | 0.028                                 |
| 8/31/1995           | North-Northwest                   | 0.03                                  |
| 11/28/1995          | North-Northwest                   | 0.025                                 |
| 2/22/1996           | North-Northwest                   | 0.031                                 |
| 5/23/1996           | North-Northwest                   | 0.025                                 |
| 8/8/1996            | North                             | 0.019                                 |
| 11/7/1996           | North-Northeast                   | 0.019                                 |
| 3/27/1997           | North-Northwest                   | 0.021                                 |
| 5/19/1997           | North                             | 0.019                                 |
| 5/18/1998           | North                             | 0.02                                  |
| 11/2/1998           | North                             | 0.02                                  |
| 6/4/1999            | North                             | 0.02                                  |
| 11/11/1999          | North                             | 0.03                                  |
| 6/20/2000           | North-Northeast                   | 0.014                                 |
| 8/29/2000           | North-Northeast                   | 0.013                                 |
| 11/29/2000          | North-Northwest                   | 0.026                                 |
| 5/2/2001            | Northeast                         | 0.026                                 |
| 8/15/2001           | Northeast                         | 0.047                                 |
| 10/5/2001           | Northeast                         | 0.031                                 |
| 1/21/2002           | Northeast                         | 0.033                                 |
| 4/26/2002           | Northeast                         | 0.031                                 |
| 10/7/2002           | Northeast                         | 0.017                                 |
| 5/1/2003            | North-Northeast                   | 0.011                                 |
| 10/3/2003           | North-Northeast                   | 0.016                                 |
| 4/6/2004            | North-Northeast                   | 0.013                                 |
| 10/28/2004          | North-Northeast                   | 0.014                                 |
| 4/13/2005           | North-Northwest                   | 0.02                                  |
| 10/27/2005          | North-Northwest                   | 0.01 to 0.03                          |

The data within this table collected prior to October 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

**ATTACHMENT A**  
**FIELD PROCEDURES AND FIELD DATA SHEETS**



## FIELD PROCEDURES

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### 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<sup>TM</sup> 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 # 051027-PCI Date 10/27/05 Client Arco 6113

Site 785 ~~Staley~~ Stanley Blvd., Livermore

| 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            | 2               |              |  |                                      |                                    | 18.45                | 44.69                      | TOC                      | G.O. |
| MW-2            | -               |              | Bolts Securing well box cover stripped @ head. |                                      |                                    |                      |                            |                          | G.O. |
| MW-3            | -               |              |  |                                      |                                    |                      |                            |                          |      |
| MW-4            | 4               |              |  |                                      |                                    | 19.05                | 26.71                      |                          |      |
| MW-6            | 4               |              |  |                                      |                                    | 18.12                | 67.02                      |                          |      |
| MW-7            | 4               |              |  |                                      |                                    | 17.38                | 67.60                      |                          |      |
| MW-8            | 4               |              |  |                                      |                                    | 17.14                | 66.67                      |                          | G.O. |
| MW-9            | 4               |              |  |                                      |                                    | 17.41                | 67.94                      |                          |      |
| MW-10           | 4               |              |  |                                      |                                    | 19.03                | 50.05                      |                          |      |
| MW-11           | 2               |              |  |                                      |                                    | 21.98                | 44.50                      |                          |      |
| MW-12           | 2               |              |  |                                      |                                    | 19.77                | 33.90                      |                          |      |
| MW-13           | 4               |              |  |                                      |                                    | 18.45                | 30.32                      |                          |      |
| VW-1            |                 |              |  |                                      |                                    | <del>18.12</del>     | <del>67.02</del>           |                          |      |
| <del>VW-1</del> |                 |              |  |                                      |                                    | 17.65                | 44.38                      |                          |      |
| VW-2            | 4               |              |  |                                      |                                    | 18.50                | 49.22                      |                          | G.O. |
| VW-4            | 4               |              |  |                                      |                                    | 18.00                | 24.50                      |                          | G.O. |
|                 |                 |              |  |                                      |                                    |                      |                            |                          |      |
|                 |                 |              |  |                                      |                                    |                      |                            |                          |      |

## ARCO / BP WELL MONITORING DATA SHEET

|                                 |                                      |
|---------------------------------|--------------------------------------|
| BTS #: <u>051027-PC1</u>        | Station #                            |
| Sampler: <u>PC</u>              | Date:                                |
| Well I.D.: <u>MW-3</u>          | Well Diameter: 2 3 4 6 8 <u>    </u> |
| Total Well Depth:               | Depth to Water:                      |
| Depth to Free Product:          | Thickness of Free Product (feet):    |
| Referenced to: <u>PVO</u> Grade | D.O. Meter (if req'd): YSI HACH      |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

|  |  |
|--|--|
| Purge Method: <u>Bailer</u><br>Disposable Bailer<br>Positive Air Displacement<br>Electric Submersible<br>Extraction Pump<br>Other: _____ | Sampling Method: <u>Bailer</u><br>Disposable Bailer<br>Extraction Port<br>Other: _____ |
|--|--|

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

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

| Time | Temp (°F) | pH | Conductivity (mS or µS) | Gals. Removed | Observations   |
|------|-----------|----|-------------------------|---------------|--|
|      |           |    |                         |               | <u>Botswana Well box cover stripped @ head - unable to</u> |
|      |           |    |                         |               | <u>turn w/ driver.</u>                                     |
|      |           |    |                         |               |  |
|      |           |    |                         |               |  |
|      |           |    |                         |               |  |

|  |   |                        |
|--|---|------------------------|
| Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: _____           |                        |
| Sampling Time: _____   | Sampling Date: _____                        |                        |
| Sample I.D.: <u>MW3</u>  | Laboratory: <u>Pace</u> Sequoia Other _____ |                        |
| Analyzed for: <u>GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol</u>                                 | 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 #: <del>05910</del> 051027 PC | Station # Arco 6113                    |
| Sampler: PC                       | Date: 10/27/05                         |
| Well I.D.: MW-4                   | Well Diameter: 2 3 <u>4</u> 6 8        |
| Total Well Depth: 26.71           | Depth to Water: 19.05                  |
| Depth to Free Product:            | Thickness of Free Product (feet):      |
| Referenced to: <u>EPC</u> Grade:  | D.O. Meter (if req'd): <u>YSI</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method:  Bailer      Sampling Method:  Bailer

Disposable Bailer       Disposable Bailer

Positive Air Displacement       Extraction Port

Electric Submersible      Other: \_\_\_\_\_

Extraction Pump

Other: \_\_\_\_\_

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

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| 5                     | x | 3                 | = | 15                | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Conductivity (mS or $\mu$ S) | Gals. Removed | Observations |
|------|-----------|-----|------------------------------|---------------|--------------|
| 1100 | 65.9      | 7.3 | 617                          | 5             |              |
| 1102 | 66.6      | 7.0 | 620                          | 10            |              |
| 1104 | 66.7      | 6.9 | 617                          | 15            |              |
|      |           |     |                              |               |              |
|      |           |     |                              |               |              |

Did well dewater? Yes       Gallons actually evacuated: 15

Sampling Time: 1110      Sampling Date: 10/27/05

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

Analyzed for:  GRO  BTEX  MTBE  DRO  Oxy's  1,2-DCA  EDB  Ethanol      Other: \_\_\_\_\_

|                    |            |      |             |           |
|--------------------|------------|------|-------------|-----------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | 1.00 mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV        |

## ARCO / BP WELL MONITORING DATA SHEET

|                                  |  |
|----------------------------------|--|
| BTS #: <u>05027-PC1</u>          | Station # <u>Arco 6113</u>             |
| Sampler: <u>PC</u>               | Date: <u>10/27/05</u>                  |
| Well I.D.: <u>MW-6</u>           | Well Diameter: 2 3 <u>4</u> 6 8 _____  |
| Total Well Depth: <u>67.02</u>   | Depth to Water: <u>18.12</u>           |
| Depth to Free Product:           | Thickness of Free Product (feet):      |
| Referenced to: <u>PVC</u> Grade: | D.O. Meter (if req'd): <u>YSI</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method:  Bailer      Sampling Method:  Bailer

Disposable Bailer       Disposable Bailer

Positive Air Displacement       Extraction Port

Electric Submersible      Other: \_\_\_\_\_

Extraction Pump

Other: \_\_\_\_\_

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

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>31.8</u>           | x | <u>3</u>          | = | <u>95.4</u>       | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Conductivity (mS or $\mu$ S) | Gals. Removed | Observations |
|------|-----------|-----|------------------------------|---------------|--------------|
| 1130 | 64.4      | 7.1 | 625                          | 32            |              |
| 1137 | 64.3      | 7.0 | 645                          | 64            |              |
| 1144 | 64.4      | 7.0 | 659                          | 95.5          |              |
|      |           |     |                              |               |              |
|      |           |     |                              |               |              |

Did well dewater? Yes  No  Gallons actually evacuated: 95.5

Sampling Time: 1148      Sampling Date: 10/27/05

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

Analyzed for: ORO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol Other: \_\_\_\_\_

|                  |                    |            |             |             |      |
|------------------|--------------------|------------|-------------|-------------|------|
| D.O. (if req'd): | Pre-purge:         | mg/L       | Post-purge: | 3.15        | mg/L |
|                  | O.R.P. (if req'd): | Pre-purge: | mV          | Post-purge: | mV   |

## ARCO / BP WELL MONITORING DATA SHEET

|  |  |
|--|--|
| BTS #: 051027-PC1                      | Station # Arco 6113                      |
| Sampler: PC                            | Date: 10/27/05                           |
| Well I.D.: MW-7                        | Well Diameter: 2 3 <u>4</u> 6 8          |
| Total Well Depth: <del>1730</del> 0760 | Depth to Water: 1730                     |
| Depth to Free Product:                 | Thickness of Free Product (feet):        |
| Referenced to: <u>PVE</u> Grade:       | D.O. Meter (if req'd): <u>(YSI)</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

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

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

|                       |   |                   |   |                                |       |
|-----------------------|---|-------------------|---|--------------------------------|-------|
| <u>326</u>            | X | <u>3</u>          | = | <del>97.8</del><br><u>97.8</u> | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume              |       |

| Time | Temp (°F) | pH  | Conductivity (mS or <del>µS</del> ) | Gals. Removed | Observations |
|------|-----------|-----|-------------------------------------|---------------|--------------|
| 1328 | 64.4      | 7.2 | 626                                 | 325           |              |
| 1335 | 65.1      | 7.0 | 641                                 | 65            |              |
| 1343 | 65.0      | 7.0 | 643                                 | 98            |              |
|      |           |     |                                     |               |              |
|      |           |     |                                     |               |              |

Did well dewater? Yes  Gallons actually evacuated: 98

Sampling Time: 1350 Sampling Date: 10/27/05

Sample I.D.: MW-7 Laboratory: Pace Sequoia Other: \_\_\_\_\_

Analyzed for: GRO BTEX MTBE DRO Osy's 1,2-DCA EDB Ethanol Other: \_\_\_\_\_

|                  |                    |            |             |             |
|------------------|--------------------|------------|-------------|-------------|
| D.O. (if req'd): | Pre-purge:         | mg/L       | Post-purge: | 2.16 mg/L   |
|                  | O.R.P. (if req'd): | Pre-purge: | mV          | Post-purge: |

## ARCO / BP WELL MONITORING DATA SHEET

|                                  |  |
|----------------------------------|--|
| BTS #: <u>051027 (C)</u>         | Station # <u>Arco 6113</u>             |
| Sampler: <u>PC</u>               | Date: <u>10/27/05</u>                  |
| Well I.D.: <u>MW-9</u>           | Well Diameter: 2 3 <u>4</u> 6 8        |
| Total Well Depth: <u>67.94</u>   | Depth to Water: <u>17.41</u>           |
| Depth to Free Product:           | Thickness of Free Product (feet):      |
| Referenced to: <u>PVC</u> Grade. | D.O. Meter (if req'd): <u>YSI</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

|  |  |
|--|--|
| Purge Method: <u>Bailer</u><br><u>Disposable Bailer</u><br><u>Positive Air Displacement</u><br><u>Electric Submersible</u><br><u>Extraction Pump</u><br>Other: _____ | Sampling Method: <u>Bailer</u><br><u>Disposable Bailer</u><br><u>Extraction Port</u><br>Other: _____ |
|--|--|

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

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>32.8</u>           | x | <u>3</u>          | = | <u>98.4</u>       | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time                           | Temp (°F)   | pH         | Conductivity (mS or $\mu$ S) | Gals. Removed | Observations |
|--------------------------------|-------------|------------|------------------------------|---------------|--------------|
| <u>1202</u>                    | <u>63.5</u> | <u>7.1</u> | <u>620</u>                   | <u>33</u>     |              |
| <u>1209</u><br><del>1216</del> | <u>63.7</u> | <u>7.0</u> | <u>617</u>                   | <u>66</u>     |              |
| <u>1215</u>                    | <u>63.1</u> | <u>7.0</u> | <u>619</u>                   | <u>98.5</u>   |              |
|                                |             |            |                              |               |              |
|                                |             |            |                              |               |              |

|   |   |
|---|---|
| Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/> | Gallons actually evacuated: <u>98.5</u>     |
| Sampling Time: <u>1222</u>  | Sampling Date: <u>10/27/05</u>              |
| Sample I.D.: <u>MW-9</u>  | Laboratory: <u>Pace Sequoia</u> Other _____ |

|  |            |      |                              |
|--|------------|------|------------------------------|
| Analyzed for: <u>GRO BTX</u> MTBE DRO <u>Oxy's</u> 1,2-DCA EDB Ethanol Other _____ |            |      |                              |
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: <u>2.56</u> mg/L |
| O.R.P. (if req'd):   | Pre-purge: | mV   | Post-purge: _____ mV         |

## ARCO / BP WELL MONITORING DATA SHEET

|                           |                                   |
|---------------------------|-----------------------------------|
| BTS #: 051027-PC1         | Station # Arco 6113               |
| Sampler: PC               | Date: 10/27/05                    |
| Well I.D.: MW-10          | Well Diameter: 2 3 ④ 6 8          |
| Total Well Depth: 50.05   | Depth to Water: 19.03             |
| Depth to Free Product:    | Thickness of Free Product (feet): |
| Referenced to: PVC Grade. | D.O. Meter (if req'd): VSI HACH   |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method:  Bailer      Sampling Method:  Bailer  
 Disposable Bailer       Disposable Bailer  
 Positive Air Displacement       Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

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

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| 20.2                  | x | 3                 | = | 60.6              | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Conductivity (mS or $\mu$ S) | Gals. Removed | Observations |
|------|-----------|-----|------------------------------|---------------|--------------|
| 1235 | 632       | 7.4 | 430                          | 20            |              |
| 1241 | 632       | 7.3 | 430                          | 40            |              |
| 1247 | 634       | 7.2 | 428                          | 60            |              |
|      |           |     |                              |               |              |
|      |           |     |                              |               |              |

Did well dewater? Yes  No  Gallons actually evacuated: 60

Sampling Time: 1258      Sampling Date: 10/27/05

Sample I.D.: MW-10      Laboratory: Pace Sequoia Other \_\_\_\_\_

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol Other: \_\_\_\_\_

|                    |            |      |             |      |      |
|--------------------|------------|------|-------------|------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | 3.80 | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: |      | mV   |



## ARCO / BP WELL MONITORING DATA SHEET

|                          |                                   |
|--------------------------|-----------------------------------|
| BTS #: 051027-RL         | Station # Arco 1013               |
| Sampler: PO              | Date: 10/27/05                    |
| Well I.D.: MW-11         | Well Diameter: ② 3 4 6 8          |
| Total Well Depth: 44.50  | Depth to Water: 21.95             |
| Depth to Free Product:   | Thickness of Free Product (feet): |
| Referenced to: PVO 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 <sup>2</sup> * 0.163 |

Purge Method:  Bailer      Sampling Method:  Bailer  
 Disposable Bailer       Disposable Bailer  
 Positive Air Displacement       Extraction Port  
 Electric Submersible  
 Extraction Pump      Other: \_\_\_\_\_  
 Other: \_\_\_\_\_

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

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>3.6</u>            | x | <u>3</u>          | = | <u>10.8</u>       | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Conductivity (mS or µS) | Gals. Removed | Observations |
|------|-----------|-----|-------------------------|---------------|--------------|
| 1010 | 64.7      | 7.2 | 664                     | 3.6           |              |
| 1016 | 64.9      | 7.2 | 671                     | 7.2           |              |
| 1022 | 64.8      | 7.2 | 668                     | 10.8          |              |
|      |           |     |                         |               |              |
|      |           |     |                         |               |              |

Did well dewater? Yes  No  Gallons actually evacuated: 10.8

Sampling Time: 1030      Sampling Date: 10/27/05

Sample I.D.: MW-11      Laboratory: Pace Sequoia Other \_\_\_\_\_

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol 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 #: 051027RC1          | Station # Arco 6113               |
| Sampler: PC               | Date: 10/27/05                    |
| Well I.D.: MW-12          | Well Diameter: (2) 3 4 6 8        |
| Total Well Depth: 33.90   | Depth to Water: 19.77             |
| 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 <sup>2</sup> * 0.163 |

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

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

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>2.3</u>            | x | <u>3</u>          | = | <u>6.9</u>        | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Conductivity (mS or $\mu$ S) | Gals. Removed | Observations |
|------|-----------|-----|------------------------------|---------------|--------------|
| 938  | 64.6      | 7.4 | 615                          | 2.3           |              |
| 943  | 65.1      | 7.0 | 583                          | 4.6           |              |
| 950  | 65.3      | 7.0 | 581                          | 6.9           |              |
|      |           |     |                              |               |              |
|      |           |     |                              |               |              |

|   |   |
|---|---|
| Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Gallons actually evacuated: 7                   |
| Sampling Time: 958  | Sampling Date: 10/27/05                         |
| Sample I.D.: MW-12  | Laboratory: Pace <del>Sequora</del> Other _____ |

|  |                       |                       |
|--|-----------------------|-----------------------|
| Analyzed for: GAO BTEX MTBE DRO <u>oxy's 1,2-DCA EDB Ediana</u> Other: _____ |                       |                       |
| D.O. (if req'd):   | Pre-purge: _____ mg/L | Post-purge: 1.81 mg/L |
| O.R.P. (if req'd):   | Pre-purge: _____ mV   | Post-purge: _____ mV  |

## ARCO / BP WELL MONITORING DATA SHEET

|                                   |  |
|-----------------------------------|--|
| BTS #: <u>051027-04</u>           | Station # <u>Arco 6113</u>                   |
| Sampler: <u>PC</u>                | Date: <u>10/27/05</u>                        |
| Well I.D.: <u>MW-13</u>           | Well Diameter: <u>2</u> 3 4 6 8 <u>   </u>   |
| Total Well Depth: <u>30.32</u>    | Depth to Water: <u>18.43</u>                 |
| Depth to Free Product: <u>   </u> | Thickness of Free Product (feet): <u>   </u> |
| Referenced to: <u>PVC</u> Grade   | D.O. Meter (if req'd): <u>YSI</u> HACH       |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

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

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

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>1.9</u>            | x | <u>3</u>          | = | <u>5.7</u>        | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Conductivity (mS or µS) | Gals. Removed | Observations |
|------|-----------|-----|-------------------------|---------------|--------------|
| 1432 | 66.6      | 6.8 | 866                     | 2             |              |
| 1435 | 67.5      | 6.8 | 1081                    | 4             |              |
| 1440 | 67.3      | 6.8 | 1081                    | 5.7           |              |
|      |           |     |                         |               |              |
|      |           |     |                         |               |              |

|  |  |                              |
|--|--|------------------------------|
| Did well dewater? Yes <input type="checkbox"/> <b>NO</b> <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>5.7</u>         |                              |
| Sampling Time: <u>1448</u>   | Sampling Date: <u>10/27/05</u>                 |                              |
| Sample I.D.: <u>MW-13</u>  | Laboratory: Pace <u>Sequa</u> Other <u>   </u> |                              |
| Analyzed for: GRO BTEX MTBE DRO  | Other: <u>   </u>                              |                              |
| D.O. (if req'd):   | Pre-purge: <u>   </u> mg/L                     | Post-purge: <u>0.75</u> mg/L |
| O.R.P. (if req'd):   | Pre-purge: <u>   </u> mV                       | Post-purge: <u>   </u> mV    |

## ARCO / BP WELL MONITORING DATA SHEET

|                                 |  |
|---------------------------------|--|
| BTS #: <u>051027-PC1</u>        | Station # <u>Arco 2113</u>             |
| Sampler: <u>PC</u>              | Date: <u>10/27/05</u>                  |
| Well I.D.: <u>VW-1</u>          | Well Diameter: 2 3 <u>4</u> 6 8        |
| Total Well Depth: <u>44.38</u>  | Depth to Water: <u>17.65</u>           |
| Depth to Free Product:          | Thickness of Free Product (feet):      |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

Purge Method:  Bailer      Sampling Method:  Bailer  
 Disposable Bailer       Disposable Bailer  
 Positive Air Displacement       Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

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

|                       |   |                   |   |                   |
|-----------------------|---|-------------------|---|-------------------|
| <u>17.4</u>           | x | <u>3</u>          | = | <u>52.2</u> Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |

| Time        | Temp (°F)   | pH         | Conductivity (mS or <u>µS</u> ) | Gals. Removed | Observations |
|-------------|-------------|------------|---------------------------------|---------------|--------------|
| <u>1405</u> | <u>64.3</u> | <u>7.2</u> | <u>526</u>                      | <u>17.5</u>   |              |
| <u>1409</u> | <u>64.9</u> | <u>7.2</u> | <u>516</u>                      | <u>35</u>     |              |
| <u>1413</u> | <u>64.8</u> | <u>7.3</u> | <u>533</u>                      | <u>52</u>     |              |
|             |             |            |                                 |               |              |
|             |             |            |                                 |               |              |

Did well dewater? Yes   No      Gallons actually evacuated: 52.6

Sampling Time: 1420      Sampling Date: 10/27/05

Sample I.D.: VW-1      Laboratory: Pace Sequoia Other \_\_\_\_\_

Analyzed for: GRO BTEX MTBE DRO Other: \_\_\_\_\_

|                    |            |      |             |                  |
|--------------------|------------|------|-------------|------------------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | <u>1.64</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV               |

**BP GEM OIL COMPANY TYPE A BILL OF LADING**

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

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

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

Arco 6113

---

Station #

785 E. Stanley Blvd., Livermore,

---

Station Address

---

Total Gallons Collected From Groundwater Monitoring Wells:

445

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|                                       |                                |
|---------------------------------------|--------------------------------|
| added equip.<br>rinse water <u>15</u> | any other<br>adjustments _____ |
|---------------------------------------|--------------------------------|

---

|                                     |  |
|-------------------------------------|--|
| TOTAL GALS.<br>RECOVERED <u>460</u> | loaded onto<br>BTS vehicle # <u>58</u> |
|-------------------------------------|--|

---

|                   |             |                 |
|-------------------|-------------|-----------------|
| BTS event #       | time        | date            |
| <u>051027-PC1</u> | <u>1200</u> | <u>10/27/05</u> |

---

signature P. Hill

---

\*\*\*\*\*

|            |      |                 |
|------------|------|-----------------|
| REC'D AT   | time | date            |
| <u>BTS</u> |      | <u>10/27/05</u> |

---

unloaded by  
signature P. Hill

**ATTACHMENT B**

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

## **LABORATORY PROCEDURES**

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### **Laboratory Procedures**

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



11 November, 2005

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

RE: ARCO #6113, Livermore, CA  
Work Order: MOJ1421

Enclosed are the results of analyses for samples received by the laboratory on 10/28/05 12:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamshid Kekobad  
Project Manager

CA ELAP Certificate #1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.



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

Project: ARCO #6113, Livermore, CA  
Project Number: G0C54-0002  
Project Manager: Scott Robinson

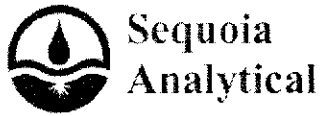
MOJ1421  
Reported:  
11/11/05 10:48

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID      | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|----------------|---------------|--------|----------------|----------------|
| MW-6           | MOJ1421-01    | Water  | 10/27/05 11:48 | 10/28/05 12:10 |
| MW-7           | MOJ1421-02    | Water  | 10/27/05 13:50 | 10/28/05 12:10 |
| MW-9           | MOJ1421-03    | Water  | 10/27/05 12:22 | 10/28/05 12:10 |
| MW-10          | MOJ1421-04    | Water  | 10/27/05 12:58 | 10/28/05 12:10 |
| MW-11          | MOJ1421-05    | Water  | 10/27/05 10:30 | 10/28/05 12:10 |
| MW-12          | MOJ1421-06    | Water  | 10/27/05 09:58 | 10/28/05 12:10 |
| MW-13          | MOJ1421-07    | Water  | 10/27/05 14:48 | 10/28/05 12:10 |
| MW-4           | MOJ1421-08    | Water  | 10/27/05 11:10 | 10/28/05 12:10 |
| VW-1           | MOJ1421-09    | Water  | 10/27/05 14:20 | 10/28/05 12:10 |
| TB611310272005 | MOJ1421-10    | Water  | 10/27/05 00:00 | 10/28/05 12:10 |

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

These samples were received with no custody seals.



|   |   |  |
|---|---|--|
| URS Corporation [Arco]<br>1333 Broadway, Suite 800<br>Oakland CA, 94612 | Project: ARCO #6113, Livermore, CA<br>Project Number: G0C54-0002<br>Project Manager: Scott Robinson | MOJ1421<br>Reported:<br>11/11/05 10:48 |
|---|---|--|

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

| Analyte   | Result      | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---|-------------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>MW-6 (MOJ1421-01) Water Sampled: 10/27/05 11:48 Received: 10/28/05 12:10</b> |             |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether  | ND          | 50              | ug/l   | 100      | 5K08035 | 11/08/05 | 11/08/05 | EPA 8260B |       |
| Benzene   | ND          | 50              | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol  | ND          | 2000            | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether  | ND          | 50              | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)   | ND          | 50              | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane  | ND          | 50              | "      | "        | "       | "        | "        | "         |       |
| Ethanol   | ND          | 10000           | "      | "        | "       | "        | "        | "         | IC    |
| Ethyl tert-butyl ether  | ND          | 50              | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene  | ND          | 50              | "      | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>  | <b>2900</b> | 50              | "      | "        | "       | "        | "        | "         |       |
| Toluene   | ND          | 50              | "      | "        | "       | "        | "        | "         |       |
| Xylenes (total)   | ND          | 50              | "      | "        | "       | "        | "        | "         |       |
| Gasoline Range Organics (C4-C12)  | ND          | 5000            | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>   |             | 96 %            | 60-135 | "        | "       | "        | "        | "         |       |
| <b>MW-7 (MOJ1421-02) Water Sampled: 10/27/05 13:50 Received: 10/28/05 12:10</b> |             |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether  | ND          | 0.50            | ug/l   | 1        | 5K08035 | 11/08/05 | 11/08/05 | EPA 8260B |       |
| Benzene   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol  | ND          | 20              | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethanol   | ND          | 100             | "      | "        | "       | "        | "        | "         | IC    |
| Ethyl tert-butyl ether  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>  | <b>2.3</b>  | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Toluene   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Xylenes (total)   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Gasoline Range Organics (C4-C12)  | ND          | 50              | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>   |             | 97 %            | 60-135 | "        | "       | "        | "        | "         |       |



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

Project: ARCO #6113, Livermore, CA  
Project Number: G0C54-0002  
Project Manager: Scott Robinson

MOJ1421  
Reported:  
11/11/05 10:48

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

| Analyte  | Result      | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--|-------------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>MW-9 (MOJ1421-03) Water</b> <b>Sampled: 10/27/05 12:22</b> <b>Received: 10/28/05 12:10</b>  |             |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether   | ND          | 0.50            | ug/l   | 1        | 5K08035 | 11/08/05 | 11/08/05 | EPA 8260B |       |
| <b>Benzene</b>   | <b>0.51</b> | 0.50            | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol   | ND          | 20              | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethanol  | ND          | 100             | "      | "        | "       | "        | "        | "         | IC    |
| Ethyl tert-butyl ether   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>   | <b>1.4</b>  | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Toluene  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Xylenes (total)  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Gasoline Range Organics (C4-C12)   | ND          | 50              | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>  |             | 93 %            | 60-135 |          | "       | "        | "        | "         |       |
| <b>MW-10 (MOJ1421-04) Water</b> <b>Sampled: 10/27/05 12:58</b> <b>Received: 10/28/05 12:10</b> |             |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether   | ND          | 0.50            | ug/l   | 1        | 5K09003 | 11/09/05 | 11/09/05 | EPA 8260B |       |
| Benzene  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol   | ND          | 20              | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethanol  | ND          | 100             | "      | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene   | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Methyl tert-butyl ether  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Toluene  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Xylenes (total)  | ND          | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Gasoline Range Organics (C4-C12)   | ND          | 50              | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>  |             | 85 %            | 60-135 |          | "       | "        | "        | "         |       |



**Sequoia  
Analytical**

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

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

Project: ARCO #6113, Livermore, CA  
Project Number: G0C54-0002  
Project Manager: Scott Robinson

MOJ1421  
Reported:  
11/11/05 10:48

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

| Analyte  | Result    | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--|-----------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>MW-11 (MOJ1421-05) Water    Sampled: 10/27/05 10:30    Received: 10/28/05 12:10</b> |           |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether   | ND        | 0.50            | ug/l   | 1        | 5K09003 | 11/09/05 | 11/09/05 | EPA 8260B |       |
| Benzene  | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol   | ND        | 20              | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether   | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)  | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane   | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethanol  | ND        | 100             | "      | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether   | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene   | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>   | <b>21</b> | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Toluene  | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Xylenes (total)  | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Gasoline Range Organics (C4-C12)   | ND        | 50              | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>  |           | 110 %           | 60-135 | "        | "       | "        | "        | "         |       |
| <b>MW-12 (MOJ1421-06) Water    Sampled: 10/27/05 09:58    Received: 10/28/05 12:10</b> |           |                 |        |          |         |          |          |           |       |
| tert-Amyl methyl ether   | ND        | 0.50            | ug/l   | 1        | 5K09003 | 11/09/05 | 11/09/05 | EPA 8260B |       |
| Benzene  | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol   | ND        | 20              | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether   | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)  | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane   | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethanol  | ND        | 100             | "      | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether   | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene   | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Methyl tert-butyl ether  | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Toluene  | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Xylenes (total)  | ND        | 0.50            | "      | "        | "       | "        | "        | "         |       |
| Gasoline Range Organics (C4-C12)   | ND        | 50              | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>  |           | 84 %            | 60-135 | "        | "       | "        | "        | "         |       |

Sequoia Analytical - Morgan Hill

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.*

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

 Project: ARCO #6113, Livermore, CA  
 Project Number: G0C54-0002  
 Project Manager: Scott Robinson

 MOJ1421  
 Reported:  
 11/11/05 10:48

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

| Analyte  | Result       | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--|--------------|--------------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>MW-13 (MOJ1421-07) Water Sampled: 10/27/05 14:48 Received: 10/28/05 12:10</b> |              |                    |        |          |         |          |          |           |       |
| tert-Amyl methyl ether   | ND           | 10                 | ug/l   | 20       | SK09003 | 11/09/05 | 11/09/05 | EPA 8260B |       |
| <b>Benzene</b>   | <b>120</b>   | 10                 | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol   | ND           | 400                | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether   | ND           | 10                 | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)  | ND           | 10                 | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane   | ND           | 10                 | "      | "        | "       | "        | "        | "         |       |
| Ethanol  | ND           | 2000               | "      | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether   | ND           | 10                 | "      | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>  | <b>1500</b>  | 10                 | "      | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>   | <b>580</b>   | 10                 | "      | "        | "       | "        | "        | "         |       |
| <b>Toluene</b>   | <b>12</b>    | 10                 | "      | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b>   | <b>450</b>   | 10                 | "      | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Organics (C4-C12)</b>  | <b>11000</b> | 1000               | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>  |              | 85 %               | 60-135 |          | "       | "        | "        | "         |       |
| <b>MW-4 (MOJ1421-08) Water Sampled: 10/27/05 11:10 Received: 10/28/05 12:10</b>  |              |                    |        |          |         |          |          |           |       |
| tert-Amyl methyl ether   | ND           | 0.50               | ug/l   | 1        | SK09003 | 11/09/05 | 11/09/05 | EPA 8260B |       |
| <b>Benzene</b>   | <b>14</b>    | 0.50               | "      | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol   | ND           | 20                 | "      | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether   | ND           | 0.50               | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)  | ND           | 0.50               | "      | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane   | ND           | 0.50               | "      | "        | "       | "        | "        | "         |       |
| Ethanol  | ND           | 100                | "      | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether   | ND           | 0.50               | "      | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>  | <b>11</b>    | 0.50               | "      | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>   | <b>22</b>    | 0.50               | "      | "        | "       | "        | "        | "         |       |
| <b>Toluene</b>   | <b>ND</b>    | 0.50               | "      | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b>   | <b>1.8</b>   | 0.50               | "      | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Organics (C4-C12)</b>  | <b>400</b>   | 50                 | "      | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>  |              | 92 %               | 60-135 |          | "       | "        | "        | "         |       |

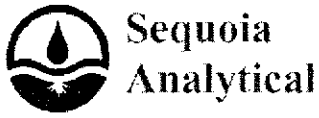
URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland CA, 94612

Project: ARCO #6113, Livermore, CA  
Project Number: GOC54-0002  
Project Manager: Scott Robinson

MOJ1421  
Reported:  
11/11/05 10:48

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

| Analyte   | Result      | Reporting |      | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---|-------------|-----------|------|-------|----------|---------|----------|----------|-----------|-------|
|   |             | Limit     |      |       |          |         |          |          |           |       |
| <b>VW-1 (MOJ1421-09) Water    Sampled: 10/27/05 14:20    Received: 10/28/05 12:10</b> |             |           |      |       |          |         |          |          |           |       |
| tert-Amyl methyl ether  | ND          | 0.50      |      | ug/l  | 1        | 5K09003 | 11/09/05 | 11/09/05 | EPA 8260B |       |
| <b>Benzene</b>  | <b>78</b>   | 0.50      |      | "     | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol  | ND          | 20        |      | "     | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether  | ND          | 0.50      |      | "     | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)   | ND          | 0.50      |      | "     | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane  | ND          | 0.50      |      | "     | "        | "       | "        | "        | "         |       |
| Ethanol   | ND          | 100       |      | "     | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether  | ND          | 0.50      |      | "     | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>   | <b>36</b>   | 0.50      |      | "     | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>  | <b>13</b>   | 0.50      |      | "     | "        | "       | "        | "        | "         |       |
| <b>Toluene</b>  | <b>73</b>   | 0.50      |      | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b>  | <b>81</b>   | 0.50      |      | "     | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Organics (C4-C12)</b>   | <b>1500</b> | 50        |      | "     | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>   |             |           | 87 % |       | 60-135   |         | "        | "        | "         | "     |



|   |   |  |
|---|---|--|
| URS Corporation [Arco]<br>1333 Broadway, Suite 800<br>Oakland CA, 94612 | Project: ARCO #6113, Livermore, CA<br>Project Number: G0C54-0002<br>Project Manager: Scott Robinson | MOJ1421<br>Reported:<br>11/11/05 10:48 |
|---|---|--|

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 5K08035 - EPA 5030B P/T / EPA 8260B**

**Blank (5K08035-BLK1)**

Prepared & Analyzed: 11/08/05

|   |      |      |      |      |  |    |        |  |  |    |
|---|------|------|------|------|--|----|--------|--|--|----|
| tert-Amyl methyl ether                  | ND   | 0.50 | ug/l |      |  |    |        |  |  |    |
| Benzene                                 | ND   | 0.50 | "    |      |  |    |        |  |  |    |
| tert-Butyl alcohol                      | ND   | 20   | "    |      |  |    |        |  |  |    |
| Di-isopropyl ether                      | ND   | 0.50 | "    |      |  |    |        |  |  |    |
| 1,2-Dibromoethane (EDB)                 | ND   | 0.50 | "    |      |  |    |        |  |  |    |
| 1,2-Dichloroethane                      | ND   | 0.50 | "    |      |  |    |        |  |  |    |
| Ethanol                                 | ND   | 100  | "    |      |  |    |        |  |  | IC |
| Ethyl tert-butyl ether                  | ND   | 0.50 | "    |      |  |    |        |  |  |    |
| Ethylbenzene                            | ND   | 0.50 | "    |      |  |    |        |  |  |    |
| Methyl tert-butyl ether                 | ND   | 0.50 | "    |      |  |    |        |  |  |    |
| Toluene                                 | ND   | 0.50 | "    |      |  |    |        |  |  |    |
| Xylenes (total)                         | ND   | 0.50 | "    |      |  |    |        |  |  |    |
| Gasoline Range Organics (C4-C12)        | ND   | 50   | "    |      |  |    |        |  |  |    |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 2.37 |      | "    | 2.50 |  | 95 | 60-135 |  |  |    |

**Laboratory Control Sample (5K08035-BS1)**

Prepared & Analyzed: 11/08/05

|   |      |      |      |      |  |     |        |  |  |        |
|---|------|------|------|------|--|-----|--------|--|--|--------|
| tert-Amyl methyl ether                  | 17.3 | 0.50 | ug/l | 15.0 |  | 115 | 80-115 |  |  |        |
| Benzene                                 | 5.41 | 0.50 | "    | 5.16 |  | 105 | 65-115 |  |  |        |
| tert-Butyl alcohol                      | 161  | 20   | "    | 143  |  | 113 | 75-150 |  |  |        |
| Di-isopropyl ether                      | 13.5 | 0.50 | "    | 15.1 |  | 89  | 75-125 |  |  |        |
| 1,2-Dibromoethane (EDB)                 | 16.3 | 0.50 | "    | 14.9 |  | 109 | 85-120 |  |  |        |
| 1,2-Dichloroethane                      | 17.3 | 0.50 | "    | 14.7 |  | 118 | 85-130 |  |  |        |
| Ethanol                                 | 494  | 100  | "    | 142  |  | 348 | 70-135 |  |  | HL, IC |
| Ethyl tert-butyl ether                  | 16.3 | 0.50 | "    | 15.0 |  | 109 | 75-130 |  |  |        |
| Ethylbenzene                            | 6.48 | 0.50 | "    | 7.54 |  | 86  | 75-135 |  |  |        |
| Methyl tert-butyl ether                 | 8.02 | 0.50 | "    | 7.02 |  | 114 | 65-125 |  |  |        |
| Toluene                                 | 35.8 | 0.50 | "    | 37.2 |  | 96  | 85-120 |  |  |        |
| Xylenes (total)                         | 36.5 | 0.50 | "    | 41.2 |  | 89  | 85-125 |  |  |        |
| Gasoline Range Organics (C4-C12)        | 464  | 50   | "    | 440  |  | 105 | 60-140 |  |  |        |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 2.36 |      | "    | 2.50 |  | 94  | 60-135 |  |  |        |

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

 Project: ARCO #6113, Livermore, CA  
 Project Number: G0C54-0002  
 Project Manager: Scott Robinson

 MOJ1421  
 Reported:  
 11/11/05 10:48

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 5K08035 - EPA 5030B P/T / EPA 8260B**

| Matrix Spike (5K08035-MS1)              | Source: MOJ1395-02 |      |          | Prepared & Analyzed: 11/08/05 |       |           |               |  |  |        |
|---|--------------------|------|----------|-------------------------------|-------|-----------|---------------|--|--|--------|
| tert-Amyl methyl ether                  | 1020               | 25   | ug/l     | 752                           | 120   | 120       | 80-115        |  |  | LM     |
| Benzene                                 | 924                | 25   | "        | 258                           | 650   | 106       | 65-115        |  |  |        |
| tert-Butyl alcohol                      | 8230               | 1000 | "        | 7160                          | ND    | 115       | 75-120        |  |  |        |
| Di-isopropyl ether                      | 686                | 25   | "        | 756                           | ND    | 91        | 75-125        |  |  |        |
| 1,2-Dibromoethane (EDB)                 | 827                | 25   | "        | 744                           | ND    | 111       | 85-120        |  |  |        |
| 1,2-Dichloroethane                      | 866                | 25   | "        | 736                           | ND    | 118       | 85-130        |  |  |        |
| Ethanol                                 | 35100              | 5000 | "        | 7080                          | ND    | 496       | 70-135        |  |  | HL, IC |
| Ethyl tert-butyl ether                  | 836                | 25   | "        | 752                           | ND    | 111       | 75-130        |  |  |        |
| Ethylbenzene                            | 3490               | 25   | "        | 377                           | 3200  | 77        | 75-135        |  |  |        |
| Methyl tert-butyl ether                 | 754                | 25   | "        | 351                           | 380   | 107       | 65-125        |  |  |        |
| Toluene                                 | 1990               | 25   | "        | 1860                          | 180   | 97        | 85-120        |  |  |        |
| Xylenes (total)                         | 5640               | 25   | "        | 2060                          | 3800  | 89        | 85-125        |  |  |        |
| Gasoline Range Organics (C4-C12)        | 46100              | 2500 | "        | 22000                         | 23000 | 105       | 60-140        |  |  |        |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>2.31</i>        |      | <i>"</i> | <i>2.50</i>                   |       | <i>92</i> | <i>60-135</i> |  |  |        |

| Matrix Spike Dup (5K08035-MSD1)         | Source: MOJ1395-02 |      |          | Prepared & Analyzed: 11/08/05 |       |           |               |   |    |        |
|---|--------------------|------|----------|-------------------------------|-------|-----------|---------------|---|----|--------|
| tert-Amyl methyl ether                  | 1040               | 25   | ug/l     | 752                           | 120   | 122       | 80-115        | 2 | 15 | LM     |
| Benzene                                 | 960                | 25   | "        | 258                           | 650   | 120       | 65-115        | 4 | 20 | LM     |
| tert-Butyl alcohol                      | 8750               | 1000 | "        | 7160                          | ND    | 122       | 75-120        | 6 | 25 | LM     |
| Di-isopropyl ether                      | 698                | 25   | "        | 756                           | ND    | 92        | 75-125        | 2 | 15 |        |
| 1,2-Dibromoethane (EDB)                 | 845                | 25   | "        | 744                           | ND    | 114       | 85-120        | 2 | 15 |        |
| 1,2-Dichloroethane                      | 894                | 25   | "        | 736                           | ND    | 121       | 85-130        | 3 | 20 |        |
| Ethanol                                 | 36600              | 5000 | "        | 7080                          | ND    | 517       | 70-135        | 4 | 35 | HL, IC |
| Ethyl tert-butyl ether                  | 850                | 25   | "        | 752                           | ND    | 113       | 75-130        | 2 | 25 |        |
| Ethylbenzene                            | 3580               | 25   | "        | 377                           | 3200  | 101       | 75-135        | 3 | 15 |        |
| Methyl tert-butyl ether                 | 783                | 25   | "        | 351                           | 380   | 115       | 65-125        | 4 | 20 |        |
| Toluene                                 | 2090               | 25   | "        | 1860                          | 180   | 103       | 85-120        | 5 | 20 |        |
| Xylenes (total)                         | 5740               | 25   | "        | 2060                          | 3800  | 94        | 85-125        | 2 | 20 |        |
| Gasoline Range Organics (C4-C12)        | 48100              | 2500 | "        | 22000                         | 23000 | 114       | 60-140        | 4 | 25 |        |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>2.21</i>        |      | <i>"</i> | <i>2.50</i>                   |       | <i>88</i> | <i>60-135</i> |   |    |        |



URS Corporation [Arco]  
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 Project: ARCO #6113, Livermore, CA  
 Project Number: G0C54-0002  
 Project Manager: Scott Robinson

 MOJ1421  
 Reported:  
 11/11/05 10:48

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 5K09003 - EPA 5030B P/T / EPA 8260B**
**Blank (5K09003-BLK1)**

Prepared &amp; Analyzed: 11/09/05

|   |      |      |      |      |  |    |        |  |  |  |
|---|------|------|------|------|--|----|--------|--|--|--|
| tert-Amyl methyl ether                  | ND   | 0.50 | ug/l |      |  |    |        |  |  |  |
| Benzene                                 | ND   | 0.50 | "    |      |  |    |        |  |  |  |
| tert-Butyl alcohol                      | ND   | 20   | "    |      |  |    |        |  |  |  |
| Di-isopropyl ether                      | ND   | 0.50 | "    |      |  |    |        |  |  |  |
| 1,2-Dibromoethane (EDB)                 | ND   | 0.50 | "    |      |  |    |        |  |  |  |
| 1,2-Dichloroethane                      | ND   | 0.50 | "    |      |  |    |        |  |  |  |
| Ethanol                                 | ND   | 100  | "    |      |  |    |        |  |  |  |
| Ethyl tert-butyl ether                  | ND   | 0.50 | "    |      |  |    |        |  |  |  |
| Ethylbenzene                            | ND   | 0.50 | "    |      |  |    |        |  |  |  |
| Methyl tert-butyl ether                 | ND   | 0.50 | "    |      |  |    |        |  |  |  |
| Toluene                                 | ND   | 0.50 | "    |      |  |    |        |  |  |  |
| Xylenes (total)                         | ND   | 0.50 | "    |      |  |    |        |  |  |  |
| Gasoline Range Organics (C4-C12)        | ND   | 50   | "    |      |  |    |        |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 2.17 |      | "    | 2.50 |  | 87 | 60-135 |  |  |  |

**Laboratory Control Sample (5K09003-BS1)**

Prepared &amp; Analyzed: 11/09/05

|   |      |      |      |      |  |     |        |  |  |  |
|---|------|------|------|------|--|-----|--------|--|--|--|
| tert-Amyl methyl ether                  | 15.8 | 0.50 | ug/l | 15.0 |  | 105 | 80-115 |  |  |  |
| Benzene                                 | 5.09 | 0.50 | "    | 5.16 |  | 99  | 65-115 |  |  |  |
| tert-Butyl alcohol                      | 153  | 20   | "    | 143  |  | 107 | 75-150 |  |  |  |
| Di-isopropyl ether                      | 15.4 | 0.50 | "    | 15.1 |  | 102 | 75-125 |  |  |  |
| 1,2-Dibromoethane (EDB)                 | 16.1 | 0.50 | "    | 14.9 |  | 108 | 85-120 |  |  |  |
| 1,2-Dichloroethane                      | 15.5 | 0.50 | "    | 14.7 |  | 105 | 85-130 |  |  |  |
| Ethanol                                 | 131  | 100  | "    | 142  |  | 92  | 70-135 |  |  |  |
| Ethyl tert-butyl ether                  | 15.6 | 0.50 | "    | 15.0 |  | 104 | 75-130 |  |  |  |
| Ethylbenzene                            | 7.07 | 0.50 | "    | 7.54 |  | 94  | 75-135 |  |  |  |
| Methyl tert-butyl ether                 | 7.36 | 0.50 | "    | 7.02 |  | 105 | 65-125 |  |  |  |
| Toluene                                 | 35.0 | 0.50 | "    | 37.2 |  | 94  | 85-120 |  |  |  |
| Xylenes (total)                         | 38.3 | 0.50 | "    | 41.2 |  | 93  | 85-125 |  |  |  |
| Gasoline Range Organics (C4-C12)        | 486  | 50   | "    | 440  |  | 110 | 60-140 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 2.26 |      | "    | 2.50 |  | 90  | 60-135 |  |  |  |

URS Corporation [Arco]  
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 Project: ARCO #6113, Livermore, CA  
 Project Number: G0C54-0002  
 Project Manager: Scott Robinson

 MOJ1421  
 Reported:  
 11/11/05 10:48

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 5K09003 - EPA 5030B P/T / EPA 8260B**

| <b>Matrix Spike (5K09003-MS1)</b>       | <b>Source: MOJ1421-07</b> |      |          | <b>Prepared &amp; Analyzed: 11/09/05</b> |       |           |               |  |  |  |
|---|---------------------------|------|----------|--|-------|-----------|---------------|--|--|--|
| tert-Amyl methyl ether                  | 316                       | 10   | ug/l     | 301                                      | 3.6   | 104       | 80-115        |  |  |  |
| Benzene                                 | 223                       | 10   | "        | 103                                      | 120   | 100       | 65-115        |  |  |  |
| tert-Butyl alcohol                      | 2980                      | 400  | "        | 2860                                     | 87    | 101       | 75-120        |  |  |  |
| Di-isopropyl ether                      | 302                       | 10   | "        | 302                                      | ND    | 100       | 75-125        |  |  |  |
| 1,2-Dibromoethane (EDB)                 | 318                       | 10   | "        | 298                                      | ND    | 107       | 85-120        |  |  |  |
| 1,2-Dichloroethane                      | 296                       | 10   | "        | 294                                      | ND    | 101       | 85-130        |  |  |  |
| Ethanol                                 | 2410                      | 2000 | "        | 2830                                     | ND    | 85        | 70-135        |  |  |  |
| Ethyl tert-butyl ether                  | 306                       | 10   | "        | 301                                      | ND    | 102       | 75-130        |  |  |  |
| Ethylbenzene                            | 1650                      | 10   | "        | 151                                      | 1500  | 99        | 75-135        |  |  |  |
| Methyl tert-butyl ether                 | 714                       | 10   | "        | 140                                      | 580   | 96        | 65-125        |  |  |  |
| Toluene                                 | 705                       | 10   | "        | 744                                      | 12    | 93        | 85-120        |  |  |  |
| Xylenes (total)                         | 1250                      | - 10 | "        | 824                                      | 450   | 97        | 85-125        |  |  |  |
| Gasoline Range Organics (C4-C12)        | 19700                     | 1000 | "        | 8800                                     | 11000 | 99        | 60-140        |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>2.15</i>               |      | <i>"</i> | <i>2.50</i>                              |       | <i>86</i> | <i>60-135</i> |  |  |  |

| <b>Matrix Spike Dup (5K09003-MSD1)</b>  | <b>Source: MOJ1421-07</b> |      |          | <b>Prepared &amp; Analyzed: 11/09/05</b> |       |           |               |     |    |    |
|---|---------------------------|------|----------|--|-------|-----------|---------------|-----|----|----|
| tert-Amyl methyl ether                  | 315                       | 10   | ug/l     | 301                                      | 3.6   | 103       | 80-115        | 0.3 | 15 |    |
| Benzene                                 | 214                       | 10   | "        | 103                                      | 120   | 91        | 65-115        | 4   | 20 |    |
| tert-Butyl alcohol                      | 3290                      | 400  | "        | 2860                                     | 87    | 112       | 75-120        | 10  | 25 |    |
| Di-isopropyl ether                      | 286                       | 10   | "        | 302                                      | ND    | 95        | 75-125        | 5   | 15 |    |
| 1,2-Dibromoethane (EDB)                 | 323                       | 10   | "        | 298                                      | ND    | 108       | 85-120        | 2   | 15 |    |
| 1,2-Dichloroethane                      | 330                       | 10   | "        | 294                                      | ND    | 112       | 85-130        | 11  | 20 |    |
| Ethanol                                 | 1940                      | 2000 | "        | 2830                                     | ND    | 69        | 70-135        | 22  | 35 | LN |
| Ethyl tert-butyl ether                  | 312                       | 10   | "        | 301                                      | ND    | 104       | 75-130        | 2   | 25 |    |
| Ethylbenzene                            | 1600                      | 10   | "        | 151                                      | 1500  | 66        | 75-135        | 3   | 15 | LN |
| Methyl tert-butyl ether                 | 808                       | 10   | "        | 140                                      | 580   | 163       | 65-125        | 12  | 20 | LM |
| Toluene                                 | 664                       | 10   | "        | 744                                      | 12    | 88        | 85-120        | 6   | 20 |    |
| Xylenes (total)                         | 1240                      | 10   | "        | 824                                      | 450   | 96        | 85-125        | 0.8 | 20 |    |
| Gasoline Range Organics (C4-C12)        | 19100                     | 1000 | "        | 8800                                     | 11000 | 92        | 60-140        | 3   | 25 |    |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>2.47</i>               |      | <i>"</i> | <i>2.50</i>                              |       | <i>99</i> | <i>60-135</i> |     |    |    |

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

Project:ARCO #6113, Livermore, CA  
Project Number:G0C54-0002  
Project Manager:Scott Robinson

MOJ1421  
Reported:  
11/11/05 10:48

#### Notes and Definitions

LN MS and/or MSD below acceptance limits. See Blank Spike(LCS).  
LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).  
IC Calib. verif. is within method limits but outside contract limits  
HL Analyte recovery above established limit  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference



# Chain of Custody Record

Project Name: Analytical for QMR sampling  
 BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 6113 > Historical/BL  
 State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Francisco  
 Requested Due Date (mm/dd/yy): 10 Day TAT

|                                    |                   |
|------------------------------------|-------------------|
| On-site Time: <u>800</u>           | Temp: <u>65°F</u> |
| Off-site Time: <u>1450</u>         | Temp: <u>75°F</u> |
| Sky Conditions: <u>clear</u>       |                   |
| Meteorological Events: <u>none</u> |                   |
| Wind Speed:                        | Direction:        |

|  |  |  |
|--|--|--|
| Lab Name: <u>Sequoia</u>   | BP/AR Facility No.: <u>6113</u>  | Consultant/Contractor: <u>URS</u>                                    |
| Address: <u>885 Jarvis Drive</u><br><u>Morgan Hill, CA 95037</u> | BP/AR Facility Address: <u>785 East Stanley Blvd., Livermore, CA 94551</u> | Address: <u>1333 Broadway, Suite 800</u><br><u>Oakland, CA 94612</u> |
| Lab PM: <u>Lisa Race / Jamshid Kekobad</u>                       | Site Lat/Long: <u>37.677829 / -121.786</u>                                 | Consultant/Contractor Project No.: <u>38487037</u>                   |
| Tele/Fax: <u>408.782.8156 / 408.782.6308</u>                     | California Global ID No.: <u>T0600100111</u>                               | Consultant/Contractor PM: <u>Scott Robinson</u>                      |
| BP/AR PM Contact: <u>Paul Supple</u>                             | Enfos Project No.: <u>G0C54-0002</u>                                       | Tele/Fax: <u>510.874.3280 / 510.874.3268</u>                         |
| Address: <u>P.O. Box 6549</u><br><u>Moraga, CA 94570</u>         | Provision or RCOP: <u>Provision</u>  | Report Type & QC Level: <u>Level 1 with EDF</u>                      |
| Tele/Fax: <u>925.299.8891 / 925.299.8872</u>                     | Phase/WBS: <u>04 - Mon/Remed by Natural Attenuation</u>                    | E-mail EDD To: <u>Donna.Cosper@urscorp.com</u>                       |
|  | Sub Phase/Task: <u>03 - Analytical</u>                                     | Invoice to: <u>Atlantic Richfield Company</u>                        |
|  | Cost Element: <u>05 - Subcontracted Costs</u>                              |  |

| Lab Bottle Order No: <u>6113</u> |                    |      |          | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |                                     |                       |                 | Sample Point Lat/Long and Comments |  |          |         |
|----------------------------------|--------------------|------|----------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|-------------------------------------|-----------------------|-----------------|------------------------------------|--|----------|---------|
| Item No.                         | Sample Description | Time | Date     | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | GRO/BTEX (\$260)   | MIBS, TAME, ETBE, DIPE, TBA (\$260) | 2,2-DCA & EDB (\$260) | ETHANOL (\$260) |                                    |  |          |         |
| 1                                | MW-6               | 1148 | 10/27/05 | X          |              |     | 01             | 3                 |              |                                | X                | X   | X        | X                  |                                     |                       |                 |                                    |  | 17051421 |         |
| 2                                | MW-7               | 1350 |          | X          |              |     | 02             | 3                 |              | X                              |                  | X   | X        | X                  |                                     |                       |                 |                                    |  |          |         |
| 3                                | MW-9               | 1722 |          | X          |              |     | 03             | 3                 |              | X                              |                  | X   | X        | X                  |                                     |                       |                 |                                    |  |          |         |
| 4                                | MW-10              | 1758 |          | X          |              |     | 04             | 3                 |              | X                              |                  | X   | X        | X                  |                                     |                       |                 |                                    |  |          |         |
| 5                                | MW-11              | 1020 |          | X          |              |     | 05             | 3                 |              | X                              |                  | X   | X        | X                  |                                     |                       |                 |                                    |  |          |         |
| 6                                | MW-12              | 958  |          | X          |              |     | 06             | 3                 |              | X                              |                  | X   | X        | X                  |                                     |                       |                 |                                    |  |          |         |
| 7                                | MW-13              | 1448 |          | X          |              |     | 07             | 3                 |              | X                              |                  | X   | X        | X                  |                                     |                       |                 |                                    |  |          |         |
| 8                                | MW-4               | 1110 |          | X          |              |     | 08             | 3                 |              | X                              |                  | X   | X        | X                  |                                     |                       |                 |                                    |  |          |         |
| 9                                | MW-1               | 1420 |          | X          |              |     | 09             | 3                 |              | X                              |                  | X   | X        | X                  |                                     |                       |                 |                                    |  |          |         |
| 10                               | TB6(113)0272005    |      |          | X          |              |     | 10             | 2                 |              | X                              |                  | X   |          |                    |                                     |                       |                 |                                    |  |          | on hold |

|                                |                               |                 |             |                           |                 |             |
|--------------------------------|-------------------------------|-----------------|-------------|---------------------------|-----------------|-------------|
| Sampler's Name: <u>D. HALL</u> | Relinquished By / Affiliation | Date            | Time        | Accepted By / Affiliation | Date            | Time        |
| Sampler's Company: <u>BTS</u>  | <u>D. HALL</u>                | <u>10/27/05</u> | <u>1625</u> | <u>SAMPLE CUSTODIAN</u>   | <u>10/28/05</u> | <u>1625</u> |
| Shipment Date:                 | <u>10/28/05</u>               | <u>1025</u>     | <u>1025</u> | <u>JOHN SULLIVAN</u>      | <u>10/28/05</u> | <u>1110</u> |
| Shipment Method:               | <u>By Air</u>                 | <u>10/28/05</u> | <u>1210</u> | <u>Jennylian</u>          | <u>10/28/05</u> | <u>1210</u> |
| Shipment Tracking No:          |                               |                 |             |                           |                 |             |

Special Instructions:

Seals In Place Yes  No Temp Blank Yes  No Cooler Temperature on Receipt  F/C Trip Blank Yes  No

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: bp  
 REC. BY (PRINT) DT  
 WORKORDER: M03142P

DATE REC'D AT LAB: 10/28/05  
 TIME REC'D AT LAB: 12:10  
 DATE LOGGED IN: 10-30-05

For Regulatory Purposes?  
 DRINKING WATER YES/NO  NO  
 WASTE WATER YES/NO  NO

| CIRCLE THE APPROPRIATE RESPONSE   | LAB SAMPLE # | DASH # | CLIENT ID | CONTAINER DESCRIPTION | PRESERVATIVE | PH | SAMPLE MATRIX | DATE SAMPLED | REMARKS: CONDITION (ETC.)   |
|---|--------------|--------|-----------|-----------------------|--------------|----|---------------|--------------|---|
| 1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent<br>Intact / Broken   |              |        |           |                       |              |    |               |              | <div style="position: relative; height: 100%; width: 100%;"> <span style="position: absolute; top: 0; left: 0; transform: rotate(-45deg); font-size: 2em; font-weight: bold;">X</span> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 1.2em;">                     10/28/05<br/>                     DT<br/>                     per COC                 </div> </div> |
| 2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*  |              |        |           |                       |              |    |               |              |   |
| 3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent   |              |        |           |                       |              |    |               |              |   |
| 4. Airbill: Airbill / Sticker<br>Present / <input checked="" type="radio"/> Absent  |              |        |           |                       |              |    |               |              |   |
| 5. Airbill #:   |              |        |           |                       |              |    |               |              |   |
| 6. Sample Labels: <input checked="" type="radio"/> Present / Absent   |              |        |           |                       |              |    |               |              |   |
| 7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed<br>on Chain-of-Custody  |              |        |           |                       |              |    |               |              |   |
| 8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* /<br>Leaking*  |              |        |           |                       |              |    |               |              |   |
| 9. Does information on chain-of-custody,<br>traffic reports and sample labels<br>agree? <input checked="" type="radio"/> Yes / No*      |              |        |           |                       |              |    |               |              |   |
| 10. Sample received within<br>hold time? <input checked="" type="radio"/> Yes / No*   |              |        |           |                       |              |    |               |              |   |
| 11. Adequate sample volume<br>received? <input checked="" type="radio"/> Yes / No*  |              |        |           |                       |              |    |               |              |   |
| 12. Proper preservatives used? <input checked="" type="radio"/> Yes / No*   |              |        |           |                       |              |    |               |              |   |
| 13. Trip Blank / Temp Blank Received?<br>(circle which, if yes) <input checked="" type="radio"/> Yes / No*                              |              |        |           |                       |              |    |               |              |   |
| 14. Read Temp: <u>5.9°C</u><br>Corrected Temp: <u>5.9°C</u><br>Is corrected temp 4 +/- 2°C? <input checked="" type="radio"/> Yes / No** |              |        |           |                       |              |    |               |              |   |

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

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

**ATTACHMENT C**

**ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL  
CONFIRMATIONS**

|             |       |       | geo_well.txt |       |       |     |
|-------------|-------|-------|--------------|-------|-------|-----|
| T0600100111 | MW-8  | ACT   | 10/27/2005   | 17.14 | 66.67 |     |
| N           |       |       |              |       |       |     |
| T0600100111 | MW-11 | ACT   | 10/27/2005   | 21.98 | 44.5  |     |
| N           |       |       |              |       |       |     |
| T0600100111 | MW-1  | ACT   | 10/27/2005   | 18.45 | 44.69 |     |
| N           |       |       |              |       |       |     |
| T0600100111 | MW-9  | ACT   | 10/27/2005   | 17.41 | 67.94 | UNK |
| N           |       |       |              |       |       |     |
| T0600100111 | VW-2  | ACT   | 10/27/2005   | 18.5  | 49.22 |     |
| N           |       |       |              |       |       |     |
| T0600100111 | MW-10 | ACT   | 10/27/2005   | 19.03 | 50.05 |     |
| N           |       |       |              |       |       |     |
| T0600100111 | MW-13 | ACT   | 10/27/2005   | 18.45 | 30.32 | UNK |
| N           |       |       |              |       |       |     |
| T0600100111 | MW-6  | ACT   | 10/27/2005   | 18.12 | 67.02 |     |
| N           |       |       |              |       |       |     |
| T0600100111 | MW-12 | ACT   | 10/27/2005   | 19.77 | 33.9  |     |
| N           |       |       |              |       |       |     |
| T0600100111 | MW-3  | NOACC | 10/27/2005   |       |       | UNK |
| N           |       |       |              |       |       |     |
| T0600100111 | VW-4  | ACT   | 10/27/2005   | 18    | 24.5  | UNK |
| N           |       |       |              |       |       |     |
| T0600100111 | MW-2  | NOACC | 10/27/2005   |       |       |     |
| N           |       |       |              |       |       |     |
| T0600100111 | VW-1  | ACT   | 10/27/2005   | 17.65 | 44.38 | UNK |
| N           |       |       |              |       |       |     |
| T0600100111 | MW-4  | ACT   | 10/27/2005   | 19.05 | 26.71 |     |
| N           |       |       |              |       |       |     |
| T0600100111 | MW-7  | ACT   | 10/27/2005   | 17.38 | 67.6  | UNK |
| N           |       |       |              |       |       |     |

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|---------------------------|--------------------------------|
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| <u>USER NAME:</u>         | URSCORP-OAKLAND                |
| <u>DATE CHECKED:</u>      | 12/1/2005 5:33:30 PM           |

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|  |   |
|--|---|
| <b>ARCO # 06113</b><br>785 STANLEY BLVD E<br>LIVERMORE, CA 94550 | <b>Regional Board - Case #: 01-0119</b><br>SAN FRANCISCO BAY RWQCB (REGION 2)<br>- (BG)<br><b>Local Agency (lead agency) - Case #: 3883</b><br>ALAMEDA COUNTY LOP - (RWS) |
|--|---|

#### SAMPLE DETECTIONS REPORT

|   |       |
|---|-------|
| # FIELD POINTS SAMPLED                                | 9     |
| # FIELD POINTS WITH DETECTIONS                        | 7     |
| # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL | 4     |
| SAMPLE MATRIX TYPES                                   | WATER |

#### METHOD QA/QC REPORT

|                                       |        |
|---------------------------------------|--------|
| METHODS USED                          | 8260FA |
| TESTED FOR REQUIRED ANALYTES?         | N      |
| MISSING PARAMETERS NOT TESTED:        |        |
| - 8260FA REQUIRES DBFM TO BE TESTED   |        |
| - 8260FA REQUIRES BR4FBZ TO BE TESTED |        |
| - 8260FA REQUIRES BZMED8 TO BE TESTED |        |
| LAB NOTE DATA QUALIFIERS              | Y      |

#### QA/QC FOR 8021/8260 SERIES SAMPLES

|   |   |
|---|---|
| TECHNICAL HOLDING TIME VIOLATIONS                               | 0 |
| METHOD HOLDING TIME VIOLATIONS                                  | 0 |
| LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT            | 0 |
| LAB BLANK DETECTIONS  | 0 |
| DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? |   |
| - LAB METHOD BLANK  | Y |
| - MATRIX SPIKE  | Y |
| - MATRIX SPIKE DUPLICATE  | Y |
| - BLANK SPIKE   | Y |
| - SURROGATE SPIKE   | Y |

#### WATER SAMPLES FOR 8021/8260 SERIES

|   |   |
|---|---|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | N |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%          | Y |
| SURROGATE SPIKES % RECOVERY BETWEEN 85-115%                         | Y |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%     | N |

**SOIL SAMPLES FOR 8021/8260 SERIES**

|   |     |
|---|-----|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%          | n/a |
| SURROGATE SPIKES % RECOVERY BETWEEN 70-125%                         | n/a |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%     | n/a |

**FIELD QC SAMPLES**

| <u>SAMPLE</u> | <u>COLLECTED</u> | <u>DETECTIONS &gt; REPDL</u> |
|---------------|------------------|------------------------------|
| QCTB SAMPLES  | N                | 0                            |
| QCEB SAMPLES  | N                | 0                            |
| QCAB SAMPLES  | N                | 0                            |

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**Date/Time of Submittal:** 12/1/2005 5:36:07 PM  
**Facility Global ID:** T0600100111  
**Facility Name:** ARCO # 06113  
**Submittal Title:** 4Q 2005 BP/ARCO 6113 EDF  
**Submittal Type:** GW Monitoring Report

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|  |  |
|--|--|
| <b>ARCO # 06113</b><br>785 STANLEY BLVD E<br>LIVERMORE, CA 94550 | <b>Regional Board - Case #: 01-0119</b><br>SAN FRANCISCO BAY RWQCB (REGION 2) - (BG)<br><b>Local Agency (lead agency) - Case #: 3883</b><br>ALAMEDA COUNTY LOP - (RWS) |
|--|--|

| <u>CONF #</u>       | <u>TITLE</u>             | <u>QUARTER</u> |
|---------------------|--------------------------|----------------|
| 8325167000          | 4Q 2005 BP/ARCO 6113 EDF | Q4 2005        |
| <u>SUBMITTED BY</u> | <u>SUBMIT DATE</u>       | <u>STATUS</u>  |
| Srijesh Thapa       | 12/1/2005                | PENDING REVIEW |

### SAMPLE DETECTIONS REPORT

|   |       |
|---|-------|
| # FIELD POINTS SAMPLED                                | 9     |
| # FIELD POINTS WITH DETECTIONS                        | 7     |
| # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL | 4     |
| SAMPLE MATRIX TYPES                                   | WATER |

### METHOD QA/QC REPORT

|                                       |        |
|---------------------------------------|--------|
| METHODS USED                          | 8260FA |
| TESTED FOR REQUIRED ANALYTES?         | N      |
| MISSING PARAMETERS NOT TESTED:        |        |
| - 8260FA REQUIRES DBFM TO BE TESTED   |        |
| - 8260FA REQUIRES BR4FBZ TO BE TESTED |        |
| - 8260FA REQUIRES BZMED8 TO BE TESTED |        |
| LAB NOTE DATA QUALIFIERS              | Y      |

### QA/QC FOR 8021/8260 SERIES SAMPLES

|   |   |
|---|---|
| TECHNICAL HOLDING TIME VIOLATIONS                               | 0 |
| METHOD HOLDING TIME VIOLATIONS                                  | 0 |
| LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT            | 0 |
| LAB BLANK DETECTIONS  | 0 |
| DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? |   |
| - LAB METHOD BLANK  | Y |
| - MATRIX SPIKE  | Y |
| - MATRIX SPIKE DUPLICATE  | Y |
| - BLANK SPIKE   | Y |
| - SURROGATE SPIKE   | Y |

### WATER SAMPLES FOR 8021/8260 SERIES

|   |   |
|---|---|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | N |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%          | Y |
| SURROGATE SPIKES % RECOVERY BETWEEN 85-115%                         | Y |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%     | N |

### SOIL SAMPLES FOR 8021/8260 SERIES

|   |     |
|---|-----|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%          | n/a |
| SURROGATE SPIKES % RECOVERY BETWEEN 70-125%                         | n/a |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%     | n/a |

**FIELD QC SAMPLES**

| <u>SAMPLE</u> | <u>COLLECTED</u> | <u>DETECTIONS &gt; REPD</u> |
|---------------|------------------|-----------------------------|
| QCTB SAMPLES  | N                | 0                           |
| QCEB SAMPLES  | N                | 0                           |
| QCAB SAMPLES  | N                | 0                           |

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**ATTACHMENT D**  
**WELL REPAIR DATA**

# Repair Data Sheet

Client Arco, Bp # 6113 Date 11-21-05  
 Site Address 785 E. Stanley Blvd, Livermore  
 Job Number 051121AA4 Technician Andrew Adinolfi

| Inspection Point<br>(Well ID or description of location)                                   | Well Inspected, Cleaned, Labeled - No Further Corrective Action Required | Replaced Cap | Replaced Lock | Replaced Lid Seal | Check Indicates deficiency |              |              |               |       |             |             |   |   |                  | Deficiency Logged on Repair Order | Deficiency Remains Uncorrected/Logged on Site Inspection Checklist | Partial Repair Completed/Outstanding Deficiency Logged on Repair Order | All Repairs Completed |
|--|--|--------------|---------------|-------------------|----------------------------|--------------|--------------|---------------|-------|-------------|-------------|---|---|------------------|-----------------------------------|--|--|-----------------------|
|  |  |              |               |                   | Ceasing                    | Annular Seal | Tabs / Bolts | Box Structure | Apron | Trip Hazard | Below Grade | Not Secureable by Design (12" diameter or less) | Lid not marked with words "MONITORING WELL" | Other Deficiency |                                   |  |  |                       |
| MW-3   |  |              |               |                   |                            |              | X            |               |       |             |             |   |   |                  | X                                 |  |  | X                     |
| Notes: Bolts stripped at head cannot remove - Drilled out bolts<br>retap & added new bolts |  |              |               |                   |                            |              |              |               |       |             |             |   |   |                  |                                   |  |  |                       |
| MW-4   |  |              |               |                   |                            |              | X            |               |       |             |             |   |   | X                |                                   |  |  | X                     |
| Notes: See MW-3  |  |              |               |                   |                            |              |              |               |       |             |             |   |   |                  |                                   |  |  |                       |
| MW-9   |  |              |               |                   |                            |              | X            |               |       |             |             |   |   |                  |                                   |  |  | X                     |
| Notes: 1 of 2 stripped taps<br>Retap add (1) new bolt                                      |  |              |               |                   |                            |              |              |               |       |             |             |   |   |                  |                                   |  |  |                       |
| MW-10  |  |              |               |                   |                            |              | X            |               |       |             |             |   |   |                  |                                   |  |  | X                     |
| Notes: Well box rim loose -<br>New well box  |  |              |               |                   |                            |              |              |               |       |             |             |   |   |                  |                                   |  |  |                       |
|  |  |              |               |                   |                            |              |              |               |       |             |             |   |   |                  |                                   |  |  |                       |
| Notes:   |  |              |               |                   |                            |              |              |               |       |             |             |   |   |                  |                                   |  |  |                       |
|  |  |              |               |                   |                            |              |              |               |       |             |             |   |   |                  |                                   |  |  |                       |
| Notes:   |  |              |               |                   |                            |              |              |               |       |             |             |   |   |                  |                                   |  |  |                       |