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Atlantic Richfield Company  
(a BP affiliated company)

2006 MAR -7 AM 8: 58

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Moraga, California 94570  
Phone: (925) 299-8891  
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Alameda County  
MAR 08 2006  
Environmental Health  
March 8, 2006

Re: ARCO Service Station # 0771  
899 Rincon Avenue  
Livermore, CA  
First Semi-Annual 2006 Groundwater Monitoring Report

"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



March 8, 2006

Ms. Donna Drogos  
Alameda County Environmental Health (ACEH)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Alameda County  
MAR 08 2006  
Environmental Health

**Re: First Semi-Annual 2006 Groundwater Monitoring Report  
ARCO Service Station #0771  
899 Rincon Avenue  
Livermore, California  
ACEH Case No. 3873**

Dear Ms. Drogos:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *First Semi-Annual 2006 Groundwater Monitoring Report* for ARCO Service Station #0771, located at 899 Rincon Avenue, Livermore, California.

If you have any questions regarding this submission, please call (510) 874-3152.

Sincerely,

**URS CORPORATION**

Alok D. Kolekar, P.E.  
Project Manager



Enclosure: First Semi-Annual 2006 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS  
Mr. Paul M. Smith, Livermore-Pleasanton Fire Department, 3560 Nevada Street, Pleasanton, CA 94566  
Mr. Chuck Headlee, Regional Water Quality Control Board (RWQCB), electronic copy uploaded to RWQCB ftp site and to the GeoTracker database

**R E P O R T**

**FIRST SEMI-ANNUAL 2006  
GROUNDWATER MONITORING  
REPORT**

ARCO SERVICE STATION #0771  
899 RINCON AVENUE  
LIVERMORE, CALIFORNIA

*Prepared for*  
RM

March 8, 2006

**URS**

URS Corporation  
1333 Broadway, Suite 800  
Oakland, California 94612

Date: March 8, 2006

Quarter: 1Q 06

### FIRST SEMI-ANNUAL 2006 GROUNDWATER MONITORING REPORT

Facility No.: 0771 Address: 899 Rincon Avenue, Livermore, California  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Alok D. Kolekar  
Primary Agency: Alameda County Environmental Health (ACEH)  
ACEH Case No.: 3873

#### WORK PERFORMED THIS QUARTER (First - 2006):

1. Performed the first quarter 2006 groundwater monitoring event on January 10, 2006.
2. Prepared and submitted this First Semi-Annual 2006 Groundwater Monitoring Report.

#### WORK PROPOSED FOR NEXT QUARTER (Second- 2006):

1. No environmental work is expected during the second quarter 2006.
2. Prepare and submit the Second Quarter 2006 Status Report.

#### SITE SUMMARY:

Current Phase of Project: GW monitoring/sampling  
Frequency of Groundwater Sampling: Semi-Annual (1<sup>st</sup> & 3<sup>rd</sup> Qtrs.): Wells MW-4, MW-7, and RW-1  
Annual (3<sup>rd</sup> Qtr.): Wells MW-2, MW-5, MW-6, MW-11, and VW-1  
Frequency of Groundwater Monitoring: Semi-annual  
Is Free Product (FP) Present On-Site: No  
Cumulative FP Recovered to Date : 3.06 gallons (Wells MW-1, MW-2, and MW-5)  
FP Recovered This Quarter : None (FP was last recovered in 1992)  
Bulk Soil Removed to Date : 1,700 cubic yards of TPH-impacted soil  
Current Remediation Techniques: None  
Approximate Depth to Groundwater: 18.86 (MW-9) to 23.75 (MW-6) feet  
Groundwater Gradient (direction): North  
Groundwater Gradient (magnitude): 0.02 feet per foot

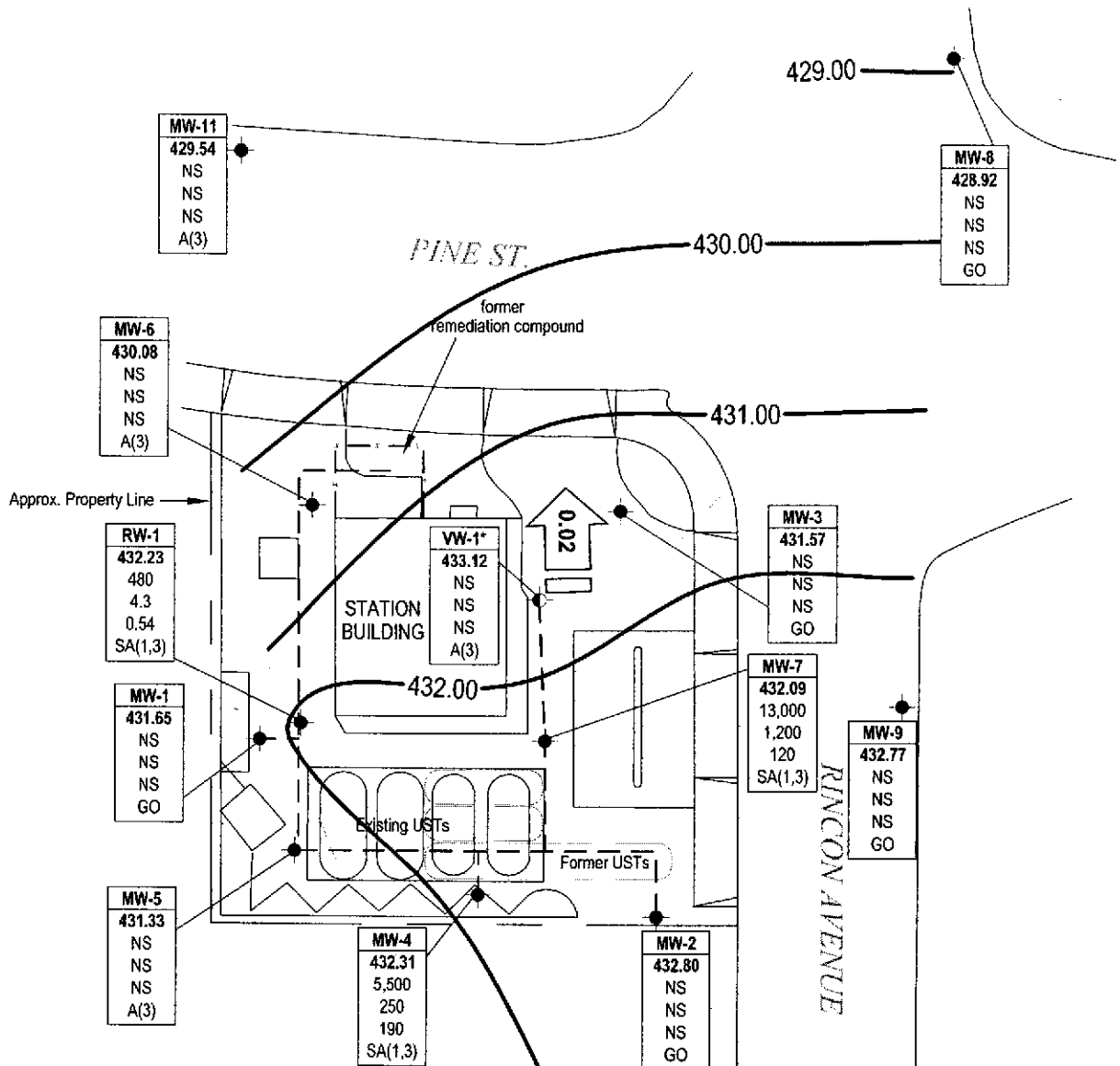
#### DISCUSSION:

Gasoline range organics were detected at or above the laboratory reporting limit in all three wells sampled this quarter at concentrations ranging from 480 micrograms per liter ( $\mu\text{g/L}$ ) (RW-1) to 13,000  $\mu\text{g/L}$  (MW-7). Benzene was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 4.3  $\mu\text{g/L}$  (RW-1) to 1,200  $\mu\text{g/L}$  (MW-7). Toluene was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 0.67  $\mu\text{g/L}$  (RW-1) to 50  $\mu\text{g/L}$  (MW-7). Ethylbenzene was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 8.3  $\mu\text{g/L}$  (RW-1) to 760  $\mu\text{g/L}$  (MW-7). Xylenes were detected at or above the laboratory reporting limit in three wells at concentrations ranging from 18  $\mu\text{g/L}$  (RW-1) to 330  $\mu\text{g/L}$  (MW-7). Methyl tert-butyl ether was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 0.54  $\mu\text{g/L}$  (RW-1) to 190  $\mu\text{g/L}$  (MW-4). Tert-Butyl alcohol was

detected at or above the laboratory reporting limit in one well (MW-4) at a concentration of 810 µg/L. No other fuel components were detected at or above their respective laboratory reporting limits in any of the wells sampled this quarter.

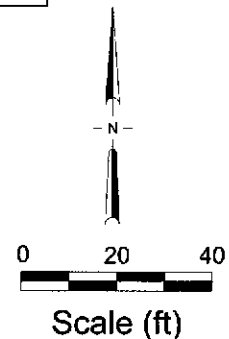
**ATTACHMENTS:**

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – January 10, 2006
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Table 3 – Groundwater Gradient Data
- 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 Confirmation



| EXPLANATION    |  |
|----------------|--|
|                | Monitoring well location                                       |
|                | Vapor extraction well location                                 |
| <b>Well</b>    | Well designation   |
| <b>ELEV</b>    | Groundwater elevation (ft above MSL)                           |
| <b>GRO</b>     | GRO, Benzene & MTBE concentrations (µg/L)                      |
| <b>MTBE</b>    | GRO, Benzene & MTBE concentrations (µg/L)                      |
| <b>SA or A</b> | Sampling frequency   |
| <              | Not detected at or above specified laboratory reporting limits |
| *              | Not used in contouring   |
| NS             | Not sampled  |
| A(3)           | Sampled annually during 3rd quarter                            |
| GO             | Gauged only  |
| SA(1,3)        | Sampled semi-annually, 1st & 3rd quarters                      |
| — 432.00       | Groundwater Elevation Contour (ft above MSL)                   |
|                | Approximate Groundwater Flow Direction and Gradient (ft/ft)    |
| ---            | Remediation piping   |

|              |        |    |    |    |    |
|--------------|--------|----|----|----|----|
| <b>MW-10</b> | 431.84 | NS | NS | NS | GO |
|--------------|--------|----|----|----|----|



Mar 03, 2006 - 5:02pm  
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Project No. 38487552  
 ARCO Service Station #0771  
 899 Rincon Avenue  
 Livermore, California

**GROUNDWATER ELEVATION CONTOUR  
 AND ANALYTICAL SUMMARY MAP**  
 First Quarter 2006 (January 10, 2006)

FIGURE  
**1**

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., 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     | 3/20/1995  | --    |                     | 451.73       | 32.00                  | 41.00                     | 24.50        | 427.23       | 90,000           | 1,800          | 1,100          | 1,000                | 5,600                | --          | --        | -- |
|          | 6/2/1995   | --    |                     | 451.73       | 32.00                  | 41.00                     | 25.60        | 426.13       | 81,000           | 2,000          | 1,400          | 990                  | 4,600                | --          | --        | -- |
|          | 8/23/1995  | --    |                     | 451.73       | 32.00                  | 41.00                     | 29.04        | 422.69       | 44,000           | 2,400          | 1,900          | 670                  | 3,800                | <300        | --        | -- |
|          | 12/4/1995  | --    |                     | 451.73       | 32.00                  | 41.00                     | 31.31        | 420.42       | 22,000           | 870            | 660            | 390                  | 2,200                | --          | --        | -- |
|          | 2/20/1996  | --    |                     | 451.73       | 32.00                  | 41.00                     | 22.26        | 429.47       | 21,000           | 1,500          | 1,200          | 650                  | 3,500                | <300        | --        | -- |
|          | 5/15/1996  | --    |                     | 451.73       | 32.00                  | 41.00                     | 23.42        | 428.31       | 36,000           | 3,000          | 2,500          | 960                  | 5,700                | <250        | --        | -- |
|          | 8/13/1996  | --    |                     | 451.73       | 32.00                  | 41.00                     | 26.83        | 424.90       | 19,000           | 730            | 580            | 450                  | 2,500                | <200        | --        | -- |
|          | 11/13/1996 | --    |                     | 451.73       | 32.00                  | 41.00                     | 31.05        | 420.68       | 6,600            | 47             | 16             | 74                   | 160                  | <30         | --        | -- |
|          | 3/26/1997  | --    |                     | 451.73       | 32.00                  | 41.00                     | 26.29        | 425.44       | 1,900            | 100            | 55             | 37                   | 200                  | <30         | --        | -- |
|          | 5/15/1997  | --    |                     | 451.73       | 32.00                  | 41.00                     | 28.65        | 423.08       | 16,000           | 490            | 250            | 250                  | 1,100                | <120        | --        | -- |
|          | 8/26/1997  | --    |                     | 451.73       | 32.00                  | 41.00                     | 31.53        | 420.20       | 190              | 6.7            | 3              | 6.3                  | 25                   | <3          | --        | -- |
|          | 11/5/1997  | --    |                     | 451.73       | 32.00                  | 41.00                     | 33.93        | 417.80       | 63               | 0.5            | <0.5           | 0.8                  | 2.4                  | 29          | --        | -- |
|          | 2/18/1998  | --    |                     | 451.73       | 32.00                  | 41.00                     | 20.46        | 431.27       | 23,000           | 1,500          | 610            | 550                  | 3,000                | <120        | --        | -- |
|          | 5/20/1998  | --    |                     | 451.73       | 32.00                  | 41.00                     | 23.84        | 427.89       | 50,000           | 4,400          | 1,900          | 1,400                | 80,000               | <300        | --        | -- |
|          | 7/30/1998  | P     |                     | 451.73       | 32.00                  | 41.00                     | 26.94        | 424.79       | 150              | <0.5           | <0.5           | <0.5                 | 1.6                  | <3          | 8.74      | -- |
|          | 10/29/1998 | NP    |                     | 451.73       | 32.00                  | 41.00                     | 32.58        | 419.15       | <50              | <0.5           | <0.5           | <0.5                 | 1.8                  | <3          | 2.0       | -- |
|          | 3/16/1999  | P     |                     | 451.73       | 32.00                  | 41.00                     | 26.20        | 425.53       | 3,200            | 160            | 32             | 89                   | 390                  | 270         | 2.0       | -- |
|          | 5/5/1999   | P     |                     | 451.73       | 32.00                  | 41.00                     | 27.57        | 424.16       | 3,600            | 140            | 46             | 76                   | 290                  | 170         | 11.65     | -- |
|          | 8/26/1999  | P     |                     | 451.73       | 32.00                  | 41.00                     | 30.25        | 421.48       | 3,200            | 210            | 29             | 100                  | 220                  | 120         | 1.43      | -- |
|          | 12/3/1999  | NP    |                     | 451.73       | 32.00                  | 41.00                     | 32.70        | 419.03       | 53               | <0.5           | <0.5           | <0.5                 | 1                    | <3          | 2.12      | -- |
|          | 3/13/2000  | P     |                     | 451.73       | 32.00                  | 41.00                     | 24.45        | 427.28       | <50              | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 5.81      | -- |
|          | 6/20/2000  | --    | b                   | 451.73       | 32.00                  | 41.00                     | --           | --           | 67.4             | 3.88           | <0.500         | 1.78                 | 1.48                 | <2.50       | --        | -- |
|          | 6/20/2000  | P     |                     | 451.73       | 32.00                  | 41.00                     | 27.79        | 423.94       | 356              | 40.1           | 7.17           | 11.9                 | 22.7                 | <2.50       | 5.1       | -- |
|          | 8/31/2000  | --    |                     | 451.73       | 32.00                  | 41.00                     | 30.35        | 421.38       | --               | --             | --             | --                   | --                   | --          | --        | -- |
|          | 2/9/2001   | --    |                     | 451.73       | 32.00                  | 41.00                     | 30.95        | 420.78       | --               | --             | --             | --                   | --                   | --          | --        | -- |
|          | 9/17/2001  | --    |                     | 451.73       | 32.00                  | 41.00                     | 30.85        | 420.88       | --               | --             | --             | --                   | --                   | --          | --        | -- |
|          | 1/21/2002  | --    |                     | 451.73       | 32.00                  | 41.00                     | 30.61        | 421.12       | --               | --             | --             | --                   | --                   | --          | --        | -- |
|          | 7/19/2002  | --    |                     | 451.73       | 32.00                  | 41.00                     | 31.55        | 420.18       | --               | --             | --             | --                   | --                   | --          | --        | -- |
|          | 1/15/2003  | --    |                     | 451.73       | 32.00                  | 41.00                     | 22.99        | 428.74       | --               | --             | --             | --                   | --                   | --          | --        | -- |
|          | 7/9/2003   | --    |                     | 451.73       | 32.00                  | 41.00                     | 30.35        | 421.38       | --               | --             | --             | --                   | --                   | --          | --        | -- |
|          | 02/19/2004 | --    |                     | 451.73       | 32.00                  | 41.00                     | 26.24        | 425.49       | --               | --             | --             | --                   | --                   | --          | --        | -- |
|          | 08/04/2004 | --    |                     | 454.23       | 32.00                  | 41.00                     | 26.36        | 427.87       | --               | --             | --             | --                   | --                   | --          | --        | -- |
|          | 01/18/2005 | --    |                     | 454.23       | 32.00                  | 41.00                     | 24.47        | 429.76       | --               | --             | --             | --                   | --                   | --          | --        | -- |
|          | 07/15/2005 | --    |                     | 454.23       | 32.00                  | 41.00                     | 29.44        | 424.79       | --               | --             | --             | --                   | --                   | --          | --        | -- |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., 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     | 01/10/2006 | --    |                     | 454.23       | 32.00                  | 41.00                     | 22.58        | 431.65       | --                | --             | --             | --                   | --                   | --          | --        | --  |
| MW-2     | 3/20/1995  | --    |                     | 449.49       | 30.00                  | 38.00                     | 20.27        | 429.22       | 54,000            | 2,600          | 1,600          | 1,200                | 7,600                | --          | --        | --  |
|          | 6/2/1995   | --    |                     | 449.49       | 30.00                  | 38.00                     | 22.32        | 427.17       | 37,000            | 2,200          | 800            | 980                  | 4,800                | --          | --        | --  |
|          | 8/23/1995  | --    |                     | 449.49       | 30.00                  | 38.00                     | 25.69        | 423.80       | 65,000            | 1,100          | 310            | 840                  | 3,000                | <500        | --        | --  |
|          | 12/4/1995  | --    |                     | 449.49       | 30.00                  | 38.00                     | 28.52        | 420.97       | 19,000            | 680            | 150            | 410                  | 1,600                | --          | --        | --  |
|          | 2/20/1996  | --    |                     | 449.49       | 30.00                  | 38.00                     | 19.00        | 430.49       | 22,000            | 1,200          | 240            | 590                  | 2,200                | <300        | --        | --  |
|          | 5/15/1996  | --    |                     | 449.49       | 30.00                  | 38.00                     | 20.03        | 429.46       | 25,000            | 1,200          | 240            | 610                  | 2,100                | <300        | --        | --  |
|          | 8/13/1996  | --    |                     | 449.49       | 30.00                  | 38.00                     | 24.44        | 425.05       | 19,000            | 640            | 110            | 420                  | 1,200                | <300        | --        | --  |
|          | 11/13/1996 | --    |                     | 449.49       | 30.00                  | 38.00                     | 28.42        | 421.07       | 15,000            | 260            | 52             | 220                  | 640                  | <200        | --        | --  |
|          | 3/26/1997  | --    |                     | 449.49       | 30.00                  | 38.00                     | 22.98        | 426.51       | 17,000            | 580            | 120            | 360                  | 980                  | <120        | --        | --  |
|          | 5/15/1997  | --    |                     | 449.49       | 30.00                  | 38.00                     | 25.40        | 424.09       | 18,000            | 420            | 63             | 340                  | 730                  | <120        | --        | --  |
|          | 8/26/1997  | --    |                     | 449.49       | 30.00                  | 38.00                     | 28.38        | 421.11       | 5,300             | 210            | 26             | 140                  | 270                  | <120        | --        | --  |
|          | 11/5/1997  | --    |                     | 449.49       | 30.00                  | 38.00                     | 31.93        | 417.56       | 560               | 42             | 2.6            | 7                    | 9                    | <40         | --        | --  |
|          | 2/18/1998  | --    |                     | 449.49       | 30.00                  | 38.00                     | 16.87        | 432.62       | 18,000            | 710            | 120            | 480                  | 1,100                | 130         | --        | --  |
|          | 5/20/1998  | --    |                     | 449.49       | 30.00                  | 38.00                     | 20.29        | 429.20       | 16,000            | 480            | 72             | 440                  | 1,100                | <120        | --        | --  |
|          | 7/30/1998  | P     |                     | 449.49       | 30.00                  | 38.00                     | 23.51        | 425.98       | 9,700             | 240            | 33             | 210                  | 490                  | <120        | 9.21      | --  |
|          | 10/29/1998 | NP    |                     | 449.49       | 30.00                  | 38.00                     | 30.08        | 419.41       | 58                | <0.5           | <0.5           | <0.5                 | 1.2                  | <3          | 1.0       | --  |
|          | 3/16/1999  | P     |                     | 449.49       | 30.00                  | 38.00                     | 23.22        | 426.27       | 4,700             | 120            | 13             | 90                   | 220                  | 60          | 2.0       | --  |
|          | 5/5/1999   | P     |                     | 449.49       | 30.00                  | 38.00                     | 24.05        | 425.44       | 5,500             | 58             | 7.1            | 58                   | 98                   | 17          | 9.09      | --  |
|          | 8/26/1999  | P     |                     | 449.49       | 30.00                  | 38.00                     | 26.44        | 423.05       | 3,700             | 55             | 11             | 60                   | 64                   | 26          | 1.9       | --  |
|          | 12/3/1999  | NP    |                     | 449.49       | 30.00                  | 38.00                     | 30.15        | 419.34       | 130               | <0.5           | <0.5           | 0.7                  | 1.8                  | <3          | 1.96      | --  |
|          | 3/13/2000  | P     |                     | 449.49       | 30.00                  | 38.00                     | 20.68        | 428.81       | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | --        | --  |
|          | 6/20/2000  | P     |                     | 449.49       | 30.00                  | 38.00                     | 23.08        | 426.41       | 226               | 2.2            | <0.500         | 4.83                 | 7.88                 | <2.50       | 4.9       | --  |
|          | 8/31/2000  | P     |                     | 449.49       | 30.00                  | 38.00                     | 26.71        | 422.78       | 87.1              | 1.78           | <0.500         | 1.33                 | 1.15                 | <2.50       | 1.59      | --  |
|          | 2/9/2001   | --    |                     | 449.49       | 30.00                  | 38.00                     | 29.65        | 419.84       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 9/17/2001  | P     |                     | 449.49       | 30.00                  | 38.00                     | 27.62        | 421.87       | 3,100             | 300            | 12             | 8.8                  | 18                   | 120         | 1.7       | --  |
|          | 1/21/2002  | --    |                     | 449.49       | 30.00                  | 38.00                     | 27.09        | 422.40       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 7/19/2002  | P     | a                   | 449.49       | 30.00                  | 38.00                     | 27.82        | 421.67       | 4,700             | 280            | 13             | 120                  | 19                   | 16          | 0.8       | 7.4 |
|          | 1/15/2003  | --    |                     | 449.49       | 30.00                  | 38.00                     | 22.18        | 427.31       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 7/9/2003   | --    |                     | 449.49       | 30.00                  | 38.00                     | 26.40        | 423.09       | 3,900             | 170            | <5.0           | 100                  | 19                   | 39          | 2.5       | 7.0 |
|          | 02/19/2004 | --    |                     | 449.49       | 30.00                  | 38.00                     | 23.85        | 425.64       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 08/04/2004 | P     |                     | 452.05       | 30.00                  | 38.00                     | 24.71        | 427.34       | 5,400             | 650            | 21             | 160                  | 56                   | 78          | 0.8       | 7.2 |
|          | 01/18/2005 | --    |                     | 452.05       | 30.00                  | 38.00                     | 20.86        | 431.19       | --                | --             | --             | --                   | --                   | --          | --        | --  |



Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #0771  
899 Rincon Ave., 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       | 07/15/2005 | P     |                     | 452.05       | 30.00                  | 38.00                     | 25.92        | 426.13       | 5,200             | 160            | 5.3            | 56                   | 10                   | 46          | 3.1       | 6.9 |
|            | 01/10/2006 | --    |                     | 452.05       | 30.00                  | 38.00                     | 19.25        | 432.80       | --                | --             | --             | --                   | --                   | --          | --        | --  |
| MW-3       | 3/20/1995  | --    |                     | 450.28       | 32.00                  | 40.00                     | 22.19        | 428.09       | 94                | <0.5           | <0.5           | <0.5                 | <0.5                 | --          | --        | --  |
|            | 6/2/1995   | --    |                     | 450.28       | 32.00                  | 40.00                     | 23.28        | 427.00       | 72                | <0.5           | <0.5           | <0.5                 | <0.5                 | --          | --        | --  |
|            | 8/23/1995  | --    |                     | 450.28       | 32.00                  | 40.00                     | 26.55        | 423.73       | 98                | <0.5           | <0.5           | <0.6                 | 0.5                  | <3          | --        | --  |
|            | 12/4/1995  | --    |                     | 450.28       | 32.00                  | 40.00                     | 29.52        | 420.76       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | --          | --        | --  |
|            | 2/20/1996  | --    |                     | 450.28       | 32.00                  | 40.00                     | 19.83        | 430.45       | 130               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 5/15/1996  | --    |                     | 450.28       | 32.00                  | 40.00                     | 21.03        | 429.25       | 120               | <0.5           | <0.5           | <0.5                 | <0.5                 | <0.5        | --        | --  |
|            | 8/13/1996  | --    |                     | 450.28       | 32.00                  | 40.00                     | 25.67        | 424.61       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 11/13/1996 | --    |                     | 450.28       | 32.00                  | 40.00                     | 21.57        | 428.71       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 3/26/1997  | --    |                     | 450.28       | 32.00                  | 40.00                     | 24.15        | 426.13       | <50               | 1.1            | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 5/15/1997  | --    |                     | 450.28       | 32.00                  | 40.00                     | 26.85        | 423.43       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 8/26/1997  | --    |                     | 450.28       | 32.00                  | 40.00                     | 30.07        | 420.21       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 11/5/1997  | --    |                     | 450.28       | 32.00                  | 40.00                     | 32.46        | 417.82       | <50               | <0.5           | 0.7            | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 2/18/1998  | --    |                     | 450.28       | 32.00                  | 40.00                     | 17.82        | 432.46       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 5/20/1998  | --    |                     | 450.28       | 32.00                  | 40.00                     | 21.41        | 428.87       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|            | 7/30/1998  | P     |                     | 450.28       | 32.00                  | 40.00                     | 26.41        | 423.87       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | 9.56      | --  |
|            | 10/29/1998 | P     |                     | 450.28       | 32.00                  | 40.00                     | 31.33        | 418.95       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | 1.0       | --  |
|            | 3/16/1999  | P     |                     | 450.28       | 32.00                  | 40.00                     | 24.61        | 425.67       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | 1.0       | --  |
|            | 5/5/1999   | P     |                     | 450.28       | 32.00                  | 40.00                     | 25.75        | 424.53       | 140               | <0.5           | <0.5           | 0.6                  | <0.5                 | <3          | 4.43      | --  |
|            | 8/26/1999  | P     |                     | 450.28       | 32.00                  | 40.00                     | 28.49        | 421.79       | 80                | 0.6            | 0.6            | 0.6                  | 1                    | <3          | 1.69      | --  |
|            | 12/3/1999  | P     |                     | 450.28       | 32.00                  | 40.00                     | 31.45        | 418.83       | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 2.26      | --  |
|            | 3/13/2000  | P     |                     | 450.28       | 32.00                  | 40.00                     | 22.18        | 428.10       | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 4.41      | --  |
|            | 6/20/2000  | P     |                     | 450.28       | 32.00                  | 40.00                     | 26.03        | 424.25       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 2.3       | --  |
|            | 8/31/2000  | --    |                     | 450.28       | 32.00                  | 40.00                     | 28.75        | 421.53       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 2/9/2001   | --    |                     | 450.28       | 32.00                  | 40.00                     | 31.04        | 419.24       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 9/17/2001  | --    |                     | 450.28       | 32.00                  | 40.00                     | 29.04        | 421.24       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 1/21/2002  | --    |                     | 450.28       | 32.00                  | 40.00                     | 28.81        | 421.47       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|            | 7/19/2002  | --    |                     | 450.28       | 32.00                  | 40.00                     | 28.92        | 421.36       | --                | --             | --             | --                   | --                   | --          | --        | --  |
| 1/15/2003  | --         |       | 450.28              | 32.00        | 40.00                  | 22.88                     | 427.40       | --           | --                | --             | --             | --                   | --                   | --          | --        |     |
| 7/9/2003   | --         |       | 450.28              | 32.00        | 40.00                  | 28.00                     | 422.28       | --           | --                | --             | --             | --                   | --                   | --          | --        |     |
| 02/19/2004 | --         |       | 450.28              | 32.00        | 40.00                  | 25.29                     | 424.99       | --           | --                | --             | --             | --                   | --                   | --          | --        |     |
| 08/04/2004 | --         |       | 452.75              | 32.00        | 40.00                  | 27.40                     | 425.35       | --           | --                | --             | --             | --                   | --                   | --          | --        |     |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., 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     | 01/18/2005 | --    |                     | 452.75        | 32.00                  | 40.00                     | 22.76        | 429.99        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 07/15/2005 | --    |                     | 452.75        | 32.00                  | 40.00                     | 25.95        | 426.80        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 01/10/2006 | --    |                     | <b>452.75</b> | <b>32.00</b>           | <b>40.00</b>              | <b>21.18</b> | <b>431.57</b> | --                | --             | --             | --                   | --                   | --          | --        | --  |
| MW-4     | 3/20/1995  | --    |                     | 451.09        | 26.00                  | 42.00                     | 22.68        | 428.41        | 12,000            | 1,000          | 100            | 450                  | 700                  | --          | --        | --  |
|          | 6/2/1995   | --    |                     | 451.09        | 26.00                  | 42.00                     | 24.41        | 426.68        | 9,000             | 850            | 56             | 380                  | 430                  | --          | --        | --  |
|          | 8/23/1995  | --    |                     | 451.09        | 26.00                  | 42.00                     | 27.72        | 423.37        | 5,300             | 400            | 25             | 240                  | 170                  | <100        | --        | --  |
|          | 12/4/1995  | --    |                     | 451.09        | 26.00                  | 42.00                     | 29.85        | 421.24        | 6,700             | 100            | <10            | 90                   | 38                   | --          | --        | --  |
|          | 2/20/1996  | --    |                     | 451.09        | 26.00                  | 42.00                     | 21.16        | 429.93        | 7,000             | 360            | 22             | 180                  | 160                  | <70         | --        | --  |
|          | 5/15/1996  | --    |                     | 451.09        | 26.00                  | 42.00                     | 22.18        | 428.91        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 8/13/1996  | --    |                     | 451.09        | 26.00                  | 42.00                     | 26.20        | 424.89        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/13/1996 | --    |                     | 451.09        | 26.00                  | 42.00                     | 29.72        | 421.37        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 3/26/1997  | --    |                     | 451.09        | 26.00                  | 42.00                     | 21.86        | 429.23        | 8,900             | 390            | 33             | 200                  | 250                  | <70         | --        | --  |
|          | 5/15/1997  | --    |                     | 451.09        | 26.00                  | 42.00                     | 26.92        | 424.17        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 8/26/1997  | --    |                     | 451.09        | 26.00                  | 42.00                     | 29.30        | 421.79        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/5/1997  | --    |                     | 451.09        | 26.00                  | 42.00                     | 32.14        | 418.95        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 2/18/1998  | --    |                     | 451.09        | 26.00                  | 42.00                     | 19.30        | 431.79        | 5,300             | 220            | 19             | 160                  | 130                  | 120         | --        | --  |
|          | 5/20/1998  | --    |                     | 451.09        | 26.00                  | 42.00                     | 22.40        | 428.69        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 7/30/1998  | --    |                     | 451.09        | 26.00                  | 42.00                     | 25.74        | 425.35        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/29/1998 | --    |                     | 451.09        | 26.00                  | 42.00                     | 31.26        | 419.83        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 3/16/1999  | P     |                     | 451.09        | 26.00                  | 42.00                     | 25.05        | 426.04        | 1,900             | 49             | <5             | 43                   | <5                   | 82          | 1.5       | --  |
|          | 5/5/1999   | --    |                     | 451.09        | 26.00                  | 42.00                     | 26.15        | 424.94        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 8/26/1999  | --    |                     | 451.09        | 26.00                  | 42.00                     | 28.60        | 422.49        | --                | --             | --             | --                   | --                   | --          | 1.43      | --  |
|          | 12/3/1999  | --    |                     | 451.09        | 26.00                  | 42.00                     | 31.53        | 419.56        | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 3/13/2000  | P     |                     | 451.09        | 26.00                  | 42.00                     | 23.61        | 427.48        | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 3.82      | --  |
|          | 6/20/2000  | --    |                     | 451.09        | 26.00                  | 42.00                     | 26.38        | 424.71        | --                | --             | --             | --                   | --                   | --          | 0.4       | --  |
|          | 8/31/2000  | NP    |                     | 451.09        | 26.00                  | 42.00                     | 29.55        | 421.54        | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 1.04      | --  |
|          | 2/9/2001   | NP    |                     | 451.09        | 26.00                  | 42.00                     | 30.30        | 420.79        | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 1.39      | --  |
|          | 9/17/2001  | NP    |                     | 451.09        | 26.00                  | 42.00                     | 29.90        | 421.19        | 3,400             | 51             | <5.0           | 16                   | 23                   | 360         | 0.92      | --  |
|          | 1/21/2002  | NP    |                     | 451.09        | 26.00                  | 42.00                     | 29.51        | 421.58        | 1,900             | 140            | 12             | 27                   | 48                   | 300         | 1.03      | --  |
|          | 7/19/2002  | NP    | a                   | 451.09        | 26.00                  | 42.00                     | 30.77        | 420.32        | 2,700             | 150            | 9.9            | <5.0                 | <5.0                 | 130         | 1.0       | 7.3 |
|          | 1/15/2003  | --    | a                   | 451.09        | 26.00                  | 42.00                     | 23.56        | 427.53        | 4,800             | 150            | 5.3            | 28                   | 46                   | 150         | 1.3       | 7.0 |
|          | 7/9/2003   | --    |                     | 451.09        | 26.00                  | 42.00                     | 29.50        | 421.59        | 3,000             | 210            | 9.4            | 6                    | 20                   | 150         | 2.0       | 6.9 |
|          | 02/19/2004 | P     | c                   | 451.09        | 26.00                  | 42.00                     | 26.35        | 424.74        | 4,800             | 270            | 11             | 25                   | 19                   | 180         | 1.8       | 6.2 |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., 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     | 08/04/2004 | NP    |                     | 453.80       | 26.00                  | 42.00                     | 26.48        | 427.32       | 4,200             | 410            | 13             | 49                   | 59                   | 300         | 0.7       | 6.7 |
|          | 01/18/2005 | P     |                     | 453.80       | 26.00                  | 42.00                     | 23.15        | 430.65       | 4,500             | 250            | 9.5            | 62                   | 22                   | 160         | 1.2       | 6.9 |
|          | 07/15/2005 | NP    |                     | 453.80       | 26.00                  | 42.00                     | 28.13        | 425.67       | 3,500             | 230            | 6.1            | 19                   | 15                   | 230         | 0.5       | 7.0 |
|          | 01/10/2006 | P     |                     | 453.80       | 26.00                  | 42.00                     | 21.49        | 432.31       | 5,500             | 250            | 7.6            | 37                   | 25                   | 190         | 1.3       | 7.1 |
| MW-5     | 3/20/1995  | --    |                     | 451.40       | 31.50                  | 41.00                     | 23.20        | 428.20       | 26,000            | 1,300          | 180            | 890                  | 2,900                | --          | --        | --  |
|          | 6/2/1995   | --    |                     | 451.40       | 31.50                  | 41.00                     | 24.80        | 426.60       | 39,000            | 940            | 160            | 740                  | 1,900                | --          | --        | --  |
|          | 8/23/1995  | --    |                     | 451.40       | 31.50                  | 41.00                     | 28.10        | 423.30       | 14,000            | 490            | 74             | 250                  | 890                  | <300        | --        | --  |
|          | 12/4/1995  | --    |                     | 451.40       | 31.50                  | 41.00                     | 29.83        | 421.57       | 7,600             | 230            | 13             | 61                   | 80                   | --          | --        | --  |
|          | 2/20/1996  | --    |                     | 451.40       | 31.50                  | 41.00                     | 21.63        | 429.77       | 4,300             | 220            | 12             | 45                   | 130                  | <50         | --        | --  |
|          | 5/15/1996  | --    |                     | 451.40       | 31.50                  | 41.00                     | 22.87        | 428.53       | 2,200             | 380            | 17             | 58                   | 84                   | <40         | --        | --  |
|          | 8/13/1996  | --    |                     | 451.40       | 31.50                  | 41.00                     | 26.48        | 424.92       | 1,700             | 150            | 16             | 24                   | 35                   | 47          | --        | --  |
|          | 11/13/1996 | --    |                     | 451.40       | 31.50                  | 41.00                     | 29.68        | 421.72       | 850               | 150            | 11             | 19                   | 37                   | 66          | --        | --  |
|          | 3/26/1997  | --    |                     | 451.40       | 31.50                  | 41.00                     | 25.14        | 426.26       | 2,400             | 440            | 21             | 79                   | 210                  | 68          | --        | --  |
|          | 5/15/1997  | --    |                     | 451.40       | 31.50                  | 41.00                     | 27.38        | 424.02       | 3,900             | 510            | 19             | 140                  | 240                  | 48          | --        | --  |
|          | 8/26/1997  | --    |                     | 451.40       | 31.50                  | 41.00                     | 29.89        | 421.51       | 76                | 4.9            | <0.5           | 1.5                  | 2                    | 9           | --        | --  |
|          | 11/5/1997  | --    |                     | 451.40       | 31.50                  | 41.00                     | 32.57        | 418.83       | 63                | 0.8            | <0.5           | <0.5                 | 1.2                  | 34          | --        | --  |
|          | 2/18/1998  | --    |                     | 451.40       | 31.50                  | 41.00                     | 19.99        | 431.41       | 6,200             | 630            | 70             | 320                  | 640                  | 320         | --        | --  |
|          | 5/20/1998  | --    |                     | 451.40       | 31.50                  | 41.00                     | 23.21        | 428.19       | 2,300             | 340            | 21             | 110                  | 140                  | 62          | --        | --  |
|          | 7/30/1998  | P     |                     | 451.40       | 31.50                  | 41.00                     | 26.19        | 425.21       | <50               | 0.8            | <0.5           | 0.6                  | 0.9                  | <3          | 8.83      | --  |
|          | 10/29/1998 | NP    |                     | 451.40       | 31.50                  | 41.00                     | 31.92        | 419.48       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | 2.0       | --  |
|          | 3/16/1999  | P     |                     | 451.40       | 31.50                  | 41.00                     | 25.80        | 425.60       | 1,300             | 170            | 8              | 59                   | 65                   | 120         | 2.0       | --  |
|          | 5/5/1999   | P     |                     | 451.40       | 31.50                  | 41.00                     | 27.09        | 424.31       | 320               | 31             | 1.1            | 13                   | 13                   | 19          | 12.09     | --  |
|          | 8/26/1999  | P     |                     | 451.40       | 31.50                  | 41.00                     | 29.67        | 421.73       | 260               | 13             | 1.7            | 4.2                  | 6.3                  | 150         | 1.31      | --  |
|          | 12/3/1999  | --    | d                   | 451.40       | 31.50                  | 41.00                     | --           | --           | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 3/13/2000  | P     |                     | 451.40       | 31.50                  | 41.00                     | 24.51        | 426.89       | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 4.41      | --  |
|          | 6/20/2000  | P     |                     | 451.40       | 31.50                  | 41.00                     | 27.37        | 424.03       | 60.8              | 4.84           | <0.500         | 1.9                  | 1.59                 | <2.50       | 5.3       | --  |
|          | 8/31/2000  | P     |                     | 451.40       | 31.50                  | 41.00                     | 30.21        | 421.19       | <50.0             | 1.18           | <0.500         | <0.500               | <0.500               | 3.83        | 0.97      | --  |
|          | 2/9/2001   | --    |                     | 451.40       | 31.50                  | 41.00                     | 30.19        | 421.21       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 9/17/2001  | P     |                     | 451.40       | 31.50                  | 41.00                     | 30.71        | 420.69       | 2,700             | 120            | 10             | 90                   | 77                   | 330         | 0.81      | --  |
|          | 1/21/2002  | --    |                     | 451.40       | 31.50                  | 41.00                     | 30.40        | 421.00       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 7/19/2002  | P     | a                   | 451.40       | 31.50                  | 41.00                     | 31.93        | 419.47       | 1,600             | 170            | 7              | 120                  | <5.0                 | 180         | 1.7       | 7.2 |
|          | 1/15/2003  | --    |                     | 451.40       | 31.50                  | 41.00                     | 23.12        | 428.28       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 7/9/2003   | --    |                     | 451.40       | 31.50                  | 41.00                     | 30.95        | 420.45       | 2,000             | 160            | 5.7            | 67                   | 27                   | 260         | 1.5       | 6.9 |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., 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-5      | 02/19/2004 | --    |                     | 451.40       | 31.50                  | 41.00                     | 26.73        | 424.67       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|           | 08/04/2004 | P     |                     | 453.52       | 31.50                  | 41.00                     | 26.61        | 426.91       | 2,100             | 250            | 5.3            | 73                   | 22                   | 250         | 2.7       | 7.0 |
|           | 01/18/2005 | --    |                     | 453.52       | 31.50                  | 41.00                     | 24.10        | 429.42       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|           | 07/15/2005 | P     |                     | 453.52       | 31.50                  | 41.00                     | 29.27        | 424.25       | 1,600             | 61             | <5.0           | 8.7                  | <5.0                 | 270         | 2.1       | 6.9 |
|           | 01/10/2006 | --    |                     | 453.52       | 31.50                  | 41.00                     | 22.19        | 431.33       | --                | --             | --             | --                   | --                   | --          | --        | --  |
| MW-6      | 3/20/1995  | --    |                     | 451.37       | 32.00                  | 42.00                     | 25.19        | 426.18       | 2,600             | 210            | 87             | 82                   | 140                  | --          | --        | --  |
|           | 6/2/1995   | --    |                     | 451.37       | 32.00                  | 42.00                     | 25.75        | 425.62       | 1,600             | 55             | 7.9            | 40                   | 26                   | --          | --        | --  |
|           | 8/23/1995  | --    |                     | 451.37       | 32.00                  | 42.00                     | 29.53        | 421.84       | 1,400             | 42             | 2.5            | 36                   | 13                   | <20         | --        | --  |
|           | 12/4/1995  | --    |                     | 451.37       | 32.00                  | 42.00                     | 32.28        | 419.09       | 2,500             | 52             | 5.8            | 59                   | 13                   | --          | --        | --  |
|           | 2/20/1996  | --    |                     | 451.37       | 32.00                  | 42.00                     | 22.27        | 429.10       | 2,500             | 120            | 16             | 73                   | 12                   | <30         | --        | --  |
|           | 5/15/1996  | --    |                     | 451.37       | 32.00                  | 42.00                     | 23.86        | 427.51       | 2,000             | 71             | 6.4            | 47                   | 25                   | <15         | --        | --  |
|           | 8/13/1996  | --    |                     | 451.37       | 32.00                  | 42.00                     | 28.55        | 422.82       | 3,800             | 91             | 8.2            | 69                   | 25                   | <20         | --        | --  |
|           | 11/13/1996 | --    |                     | 451.37       | 32.00                  | 42.00                     | 32.04        | 419.33       | 1,900             | 55             | 3.3            | 55                   | 8.5                  | 16          | --        | --  |
|           | 3/26/1997  | --    |                     | 451.37       | 32.00                  | 42.00                     | 26.84        | 424.53       | 1,800             | 51             | 5              | 32                   | 15                   | <30         | --        | --  |
|           | 5/15/1997  | --    |                     | 451.37       | 32.00                  | 42.00                     | 29.58        | 421.79       | 2,400             | 46             | 3              | 29                   | 9                    | <12         | --        | --  |
|           | 8/26/1997  | --    |                     | 451.37       | 32.00                  | 42.00                     | 32.67        | 418.70       | 1,400             | 61             | 6              | 33                   | 10                   | <12         | --        | --  |
|           | 11/5/1997  | --    |                     | 451.37       | 32.00                  | 42.00                     | 34.62        | 416.75       | 690               | 29             | 2.7            | 18                   | 3.4                  | 9           | --        | --  |
|           | 2/18/1998  | --    |                     | 451.37       | 32.00                  | 42.00                     | 20.09        | 431.28       | 1,800             | 74             | 5              | 24                   | 12                   | 19          | --        | --  |
|           | 5/20/1998  | --    |                     | 451.37       | 32.00                  | 42.00                     | 24.05        | 427.32       | 1,900             | 280            | 4              | 31                   | 16                   | 9           | --        | --  |
|           | 7/30/1998  | P     |                     | 451.37       | 32.00                  | 42.00                     | 28.72        | 422.65       | 2,300             | 110            | 7              | 36                   | 20                   | <15         | --        | --  |
|           | 10/29/1998 | P     |                     | 451.37       | 32.00                  | 42.00                     | 32.77        | 418.60       | 2,500             | 14             | 13             | 17                   | 12                   | <12         | 1.0       | --  |
|           | 3/16/1999  | P     |                     | 451.37       | 32.00                  | 42.00                     | 26.45        | 424.92       | 1,200             | 65             | 4              | 27                   | 13                   | 18          | 0.5       | --  |
|           | 5/5/1999   | P     |                     | 451.37       | 32.00                  | 42.00                     | 27.86        | 423.51       | 2,200             | 53             | 4              | 26                   | 6                    | 25          | 5.59      | --  |
|           | 8/26/1999  | P     |                     | 451.37       | 32.00                  | 42.00                     | 30.49        | 420.88       | 1,100             | 11             | 6              | 10                   | 4                    | 13          | 2.35      | --  |
|           | 12/3/1999  | P     |                     | 451.37       | 32.00                  | 42.00                     | 32.35        | 419.02       | 370               | <0.5           | <0.5           | 0.8                  | <1                   | 4           | 2.36      | --  |
|           | 3/13/2000  | P     |                     | 451.37       | 32.00                  | 42.00                     | 28.36        | 423.01       | 54                | 2.1            | 0.5            | 0.9                  | 1.4                  | <3          | 4.22      | --  |
|           | 6/20/2000  | P     |                     | 451.37       | 32.00                  | 42.00                     | 28.35        | 423.02       | 195               | 1.83           | <0.500         | 0.528                | <0.500               | <2.50       | 3.5       | --  |
|           | 8/31/2000  | P     |                     | 451.37       | 32.00                  | 42.00                     | 30.20        | 421.17       | 276               | 3.52           | 0.788          | 1.15                 | 0.621                | 8.73        | 7.0       | --  |
| 2/9/2001  | --         |       | b                   | 451.37       | 32.00                  | 42.00                     | --           | --           | 222               | 4.49           | 2.73           | 0.579                | 0.523                | 57.1        | --        | --  |
| 2/9/2001  | P          |       |                     | 451.37       | 32.00                  | 42.00                     | 30.70        | 420.67       | 253               | 5.44           | 2.93           | 0.924                | 0.977                | 48.9        | 0.59      | --  |
| 9/17/2001 | --         |       | b                   | 451.37       | 32.00                  | 42.00                     | --           | --           | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | --        | --  |
| 9/17/2001 | P          |       |                     | 451.37       | 32.00                  | 42.00                     | 30.94        | 420.43       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 2.79      | --  |
| 1/21/2002 | P          |       |                     | 451.37       | 32.00                  | 42.00                     | 30.55        | 420.82       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <5.0        | 1.9       | --  |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., 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       | 7/19/2002  | P         | a                   | 451.37       | 32.00                  | 42.00                     | 30.27        | 421.10       | 60                | 2              | <0.50          | <0.50                | <0.50                | <0.50       | 3.5       | 7.9  |    |
|            | 1/15/2003  | --        | a                   | 451.37       | 32.00                  | 42.00                     | 22.86        | 428.51       | 83                | 9.1            | <0.50          | 3.4                  | 4.6                  | 1           | 2.5       | 7.2  |    |
|            | 7/9/2003   | P         |                     | 451.37       | 32.00                  | 42.00                     | 29.41        | 421.96       | 110               | <0.50          | <0.50          | <0.50                | <0.50                | 0.98        | 2.6       | 7.1  |    |
|            | 02/19/2004 | --        |                     | 451.37       | 32.00                  | 42.00                     | 43.25        | 408.12       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
|            | 08/04/2004 | P         |                     | 453.83       | 32.00                  | 42.00                     | 27.71        | 426.12       | 540               | 36             | 3.8            | 17                   | 24                   | 5.2         | 3.5       | 7.1  |    |
|            | 01/18/2005 | --        |                     | 453.83       | 32.00                  | 42.00                     | 24.56        | 429.27       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
|            | 07/15/2005 | P         |                     | 453.83       | 32.00                  | 42.00                     | 27.61        | 426.22       | 4,600             | 210            | 44             | 150                  | 670                  | 32          | 3.5       | 7.1  |    |
|            | 01/10/2006 | --        |                     | 453.83       | 32.00                  | 42.00                     | 23.75        | 430.08       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
|            | MW-7       | 3/20/1995 | --                  |              | 450.33                 | 30.00                     | 40.00        | 22.07        | 428.26            | 31,000         | 2,300          | 400                  | 620                  | 2,900       | --        | --   | -- |
| 6/2/1995   |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 23.42        | 426.91       | 40,000            | 1,400          | 280            | 610                  | 2,400                | --          | --        | --   |    |
| 8/23/1995  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 27.13        | 423.20       | 25,000            | 1,400          | 200            | 600                  | 1,600                | 350         | --        | --   |    |
| 12/4/1995  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 29.45        | 420.88       | 23,000            | 1,100          | 74             | 490                  | 720                  | --          | --        | --   |    |
| 2/20/1996  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 20.25        | 430.08       | 39,000            | 1,200          | 140            | 640                  | 1,800                | <400        | --        | --   |    |
| 5/15/1996  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 21.38        | 428.95       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
| 8/13/1996  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 25.52        | 424.81       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
| 11/13/1996 |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 29.38        | 420.95       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
| 3/26/1997  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 24.36        | 425.97       | 35,000            | 1,100          | 180            | 460                  | 1,700                | <300        | --        | --   |    |
| 5/15/1997  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 26.90        | 423.43       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
| 8/26/1997  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 30.21        | 420.12       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
| 11/5/1997  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 32.49        | 417.84       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
| 2/18/1998  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 18.10        | 432.23       | 19,000            | 1,100          | 120            | 460                  | 1,700                | 240         | --        | --   |    |
| 5/20/1998  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 21.68        | 428.65       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
| 7/30/1998  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 26.07        | 424.26       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
| 10/29/1998 |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 31.13        | 419.20       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
| 3/16/1999  |            | P         |                     | 450.33       | 30.00                  | 40.00                     | 24.45        | 425.88       | 8,600             | 430            | 51             | 200                  | 680                  | <120        | 1.5       | --   |    |
| 5/5/1999   |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 25.84        | 424.49       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
| 8/26/1999  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 28.28        | 422.05       | --                | --             | --             | --                   | --                   | --          | --        | 1.51 | -- |
| 12/3/1999  |            | --        |                     | 450.33       | 30.00                  | 40.00                     | 31.57        | 418.76       | --                | --             | --             | --                   | --                   | --          | --        | --   |    |
| 3/13/2000  | --         | d         | 450.33              | 30.00        | 40.00                  | --                        | --           | --           | --                | --             | --             | --                   | --                   | --          | --        |      |    |
| 6/20/2000  | --         |           | 450.33              | 30.00        | 40.00                  | 25.91                     | 424.42       | --           | --                | --             | --             | --                   | --                   | --          | 5.4       | --   |    |
| 8/31/2000  | --         |           | 450.33              | 30.00        | 40.00                  | 28.40                     | 421.93       | 8,410        | 344               | 58.9           | 276            | 581                  | 202                  | 0.09        | --        |      |    |
| 2/9/2001   | --         |           | 450.33              | 30.00        | 40.00                  | 30.04                     | 420.29       | 2,030        | 203               | 12             | 17.9           | 49.4                 | 128                  | 1.55        | --        |      |    |
| 9/17/2001  | P          |           | 450.33              | 30.00        | 40.00                  | 29.03                     | 421.30       | 4,800        | 200               | 14             | 9.9            | 27                   | 160                  | 0.29        | --        |      |    |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., 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      | 1/21/2002  | --    | b                   | 450.33       | 30.00                  | 40.00                     | --           | --           | 2,600             | 280            | 17             | 41                   | 50                   | 97          | --        | --  |
|           | 1/21/2002  | P     |                     | 450.33       | 30.00                  | 40.00                     | 28.98        | 421.35       | 4,200             | 350            | 20             | 52                   | 63                   | 99          | 0.81      | --  |
|           | 7/19/2002  | P     | a                   | 450.33       | 30.00                  | 40.00                     | 28.70        | 421.63       | 5,700             | 630            | 31             | 330                  | 160                  | 64          | 0.7       | 7.3 |
|           | 1/15/2003  | --    | a                   | 450.33       | 30.00                  | 40.00                     | 21.91        | 428.42       | 12,000            | 470            | 19             | 340                  | 310                  | 91          | 1.5       | 7.0 |
|           | 7/9/2003   | P     |                     | 450.33       | 30.00                  | 40.00                     | 27.88        | 422.45       | 6,700             | 590            | 23             | 280                  | 92                   | 110         | 1.0       | 6.9 |
|           | 02/19/2004 | P     | c                   | 450.33       | 30.00                  | 40.00                     | 25.12        | 425.21       | 8,900             | 670            | 24             | 470                  | 120                  | 100         | 0.8       | 6.6 |
|           | 08/04/2004 | P     |                     | 452.70       | 30.00                  | 40.00                     | 25.92        | 426.78       | 9,100             | 930            | 29             | 460                  | 130                  | 140         | 0.6       | 7.2 |
|           | 01/18/2005 | P     |                     | 452.70       | 30.00                  | 40.00                     | 22.31        | 430.39       | 16,000            | 770            | 33             | 590                  | 220                  | 87          | 1.0       | 6.9 |
|           | 07/15/2005 | P     |                     | 452.70       | 30.00                  | 40.00                     | 27.20        | 425.50       | 12,000            | 1,000          | 38             | 490                  | 220                  | 150         | 1.5       | 6.9 |
|           | 01/10/2006 | P     |                     | 452.70       | 30.00                  | 40.00                     | 20.61        | 432.09       | 13,000            | 1,200          | 50             | 760                  | 330                  | 120         | 0.8       | 7.1 |
| MW-8      | 3/20/1995  | --    |                     | 449.43       | 27.50                  | 42.50                     | 24.75        | 424.68       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | --          | --        | --  |
|           | 6/2/1995   | --    |                     | 449.43       | 27.50                  | 42.50                     | 24.95        | 424.48       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|           | 8/23/1995  | --    |                     | 449.43       | 27.50                  | 42.50                     | 30.94        | 418.49       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|           | 12/4/1995  | --    |                     | 449.43       | 27.50                  | 42.50                     | 31.99        | 417.44       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|           | 2/20/1996  | --    |                     | 449.43       | 27.50                  | 42.50                     | 21.13        | 428.30       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|           | 5/15/1996  | --    |                     | 449.43       | 27.50                  | 42.50                     | 21.96        | 427.47       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|           | 8/13/1996  | --    |                     | 449.43       | 27.50                  | 42.50                     | 30.20        | 419.23       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|           | 11/13/1996 | --    |                     | 449.43       | 27.50                  | 42.50                     | 33.24        | 416.19       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|           | 3/26/1997  | --    |                     | 449.43       | 27.50                  | 42.50                     | 26.85        | 422.58       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|           | 5/15/1997  | --    |                     | 449.43       | 27.50                  | 42.50                     | 29.69        | 419.74       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|           | 8/26/1997  | --    |                     | 449.43       | 27.50                  | 42.50                     | 34.00        | 415.43       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | --  |
|           | 11/5/1997  | --    |                     | 449.43       | 27.50                  | 42.50                     | 35.94        | 413.49       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|           | 2/18/1998  | --    |                     | 449.43       | 27.50                  | 42.50                     | 18.18        | 431.25       | <50               | 0.6            | 0.6            | <0.5                 | 1.1                  | <3          | --        | --  |
|           | 5/20/1998  | --    |                     | 449.43       | 27.50                  | 42.50                     | 22.85        | 426.58       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|           | 7/30/1998  | NP    |                     | 449.43       | 27.50                  | 42.50                     | 30.31        | 419.12       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | 8.21      | --  |
|           | 10/29/1998 | --    |                     | 449.43       | 27.50                  | 42.50                     | 35.88        | 413.55       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|           | 3/16/1999  | NP    |                     | 449.43       | 27.50                  | 42.50                     | 28.50        | 420.93       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | 1.0       | --  |
|           | 5/5/1999   | --    |                     | 449.43       | 27.50                  | 42.50                     | 29.76        | 419.67       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|           | 8/26/1999  | P     |                     | 449.43       | 27.50                  | 42.50                     | 33.51        | 415.92       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | 4.93      | --  |
| 12/3/1999 | --         |       | 449.43              | 27.50        | 42.50                  | 35.83                     | 413.60       | --           | --                | --             | --             | --                   | --                   | --          | --        |     |
| 3/13/2000 | P          |       | 449.43              | 27.50        | 42.50                  | 26.12                     | 423.31       | <50          | <0.5              | <0.5           | <0.5           | <1                   | <3                   | 2.81        | --        |     |
| 6/20/2000 | --         |       | 449.43              | 27.50        | 42.50                  | 30.91                     | 418.52       | --           | --                | --             | --             | --                   | --                   | 5.8         | --        |     |
| 8/31/2000 | --         |       | 449.43              | 27.50        | 42.50                  | 33.70                     | 415.73       | --           | --                | --             | --             | --                   | --                   | --          | --        |     |

Table 1

## Groundwater Elevation and Analytical Data

ARCO Service Station #0771  
899 Rincon Ave., 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     | 2/9/2001   | --    |                     | 449.43       | 27.50                  | 42.50                     | 30.90        | 418.53       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 9/17/2001  | --    |                     | 449.43       | 27.50                  | 42.50                     | 33.95        | 415.48       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 1/21/2002  | --    |                     | 449.43       | 27.50                  | 42.50                     | 33.71        | 415.72       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 7/19/2002  | --    |                     | 449.43       | 27.50                  | 42.50                     | 35.30        | 414.13       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 1/15/2003  | --    |                     | 449.43       | 27.50                  | 42.50                     | 27.10        | 422.33       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 7/9/2003   | --    |                     | 449.43       | 27.50                  | 42.50                     | 33.10        | 416.33       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 02/19/2004 | --    |                     | 449.43       | 27.50                  | 42.50                     | 28.92        | 420.51       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 08/04/2004 | --    |                     | 451.80       | 27.50                  | 42.50                     | 34.28        | 417.52       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 01/18/2005 | --    |                     | 451.80       | 27.50                  | 42.50                     | 26.76        | 425.04       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 07/15/2005 | --    |                     | 451.80       | 27.50                  | 42.50                     | 31.14        | 420.66       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 01/10/2006 | --    |                     | 451.80       | 27.50                  | 42.50                     | 22.88        | 428.92       | --                | --             | --             | --                   | --                   | --          | --        | -- |
| MW-9     | 3/20/1995  | --    |                     | 449.21       | 29.50                  | 39.50                     | 19.11        | 430.10       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | --          | --        | -- |
|          | 6/2/1995   | --    |                     | 449.21       | 29.50                  | 39.50                     | 21.23        | 427.98       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 8/23/1995  | --    |                     | 449.21       | 29.50                  | 39.50                     | 24.33        | 424.88       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|          | 12/4/1995  | --    |                     | 449.21       | 29.50                  | 39.50                     | 27.90        | 421.31       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 2/20/1996  | --    |                     | 449.21       | 29.50                  | 39.50                     | 17.86        | 431.35       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|          | 5/15/1996  | --    |                     | 449.21       | 29.50                  | 39.50                     | 18.69        | 430.52       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 8/13/1996  | --    |                     | 449.21       | 29.50                  | 39.50                     | 24.17        | 425.04       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 11/13/1996 | --    |                     | 449.21       | 29.50                  | 39.50                     | 28.01        | 421.20       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 3/26/1997  | --    |                     | 449.21       | 29.50                  | 39.50                     | 22.58        | 426.63       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|          | 5/15/1997  | --    |                     | 449.21       | 29.50                  | 39.50                     | 25.12        | 424.09       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 8/26/1997  | --    |                     | 449.21       | 29.50                  | 39.50                     | 28.28        | 420.93       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 11/5/1997  | --    |                     | 449.21       | 29.50                  | 39.50                     | 31.18        | 418.03       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 2/18/1998  | --    |                     | 449.21       | 29.50                  | 39.50                     | 16.03        | 433.18       | <50               | 0.6            | 0.5            | <0.5                 | 1                    | <3          | --        | -- |
|          | 5/20/1998  | --    |                     | 449.21       | 29.50                  | 39.50                     | 19.31        | 429.90       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 7/30/1998  | --    |                     | 449.21       | 29.50                  | 39.50                     | 24.90        | 424.31       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 10/29/1998 | --    |                     | 449.21       | 29.50                  | 39.50                     | 30.08        | 419.13       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 3/16/1999  | P     |                     | 449.21       | 29.50                  | 39.50                     | 22.68        | 426.53       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | 1.0       | -- |
|          | 5/5/1999   | --    |                     | 449.21       | 29.50                  | 39.50                     | 23.82        | 425.39       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 8/26/1999  | --    |                     | 449.21       | 29.50                  | 39.50                     | 26.57        | 422.64       | --                | --             | --             | --                   | --                   | --          | 5.08      | -- |
|          | 12/3/1999  | --    | d                   | 449.21       | 29.50                  | 39.50                     | --           | --           | --                | --             | --             | --                   | --                   | --          | --        | -- |
|          | 3/13/2000  | P     |                     | 449.21       | 29.50                  | 39.50                     | 25.62        | 423.59       | <50               | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 5.43      | -- |
|          | 6/20/2000  | --    |                     | 449.21       | 29.50                  | 39.50                     | 23.55        | 425.66       | --                | --             | --             | --                   | --                   | --          | 6.2       | -- |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., 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       | 8/31/2000  | --    |                     | 449.21       | 29.50                  | 39.50                     | 27.39        | 421.82       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 2/9/2001   | --    |                     | 449.21       | 29.50                  | 39.50                     | 28.65        | 420.56       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 9/17/2001  | --    |                     | 449.21       | 29.50                  | 39.50                     | 27.51        | 421.70       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 1/21/2002  | --    |                     | 449.21       | 29.50                  | 39.50                     | 27.09        | 422.12       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 7/19/2002  | --    |                     | 449.21       | 29.50                  | 39.50                     | 27.06        | 422.15       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 1/15/2003  | --    |                     | 449.21       | 29.50                  | 39.50                     | 21.78        | 427.43       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 7/9/2003   | --    |                     | 449.21       | 29.50                  | 39.50                     | 26.18        | 423.03       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 02/19/2004 | --    |                     | 449.21       | 29.50                  | 39.50                     | 23.45        | 425.76       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 08/04/2004 | --    |                     | 451.63       | 29.50                  | 39.50                     | 29.24        | 422.39       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 01/18/2005 | --    |                     | 451.63       | 29.50                  | 39.50                     | 20.64        | 430.99       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 07/15/2005 | --    |                     | 451.63       | 29.50                  | 39.50                     | 25.72        | 425.91       | --                | --             | --             | --                   | --                   | --          | --        | -- |
| 01/10/2006 | --         |       | 451.63              | 29.50        | 39.50                  | 18.86                     | 432.77       | --           | --                | --             | --             | --                   | --                   | --          | --        |    |
| MW-10      | 3/20/1995  | --    |                     | 449.22       | 29.00                  | 37.00                     | 20.96        | 428.26       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 6/2/1995   | --    |                     | 449.22       | 29.00                  | 37.00                     | 22.15        | 427.07       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 8/23/1995  | --    |                     | 449.22       | 29.00                  | 37.00                     | 24.47        | 424.75       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|            | 12/4/1995  | --    |                     | 449.22       | 29.00                  | 37.00                     | 26.97        | 422.25       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 2/20/1996  | --    |                     | 449.22       | 29.00                  | 37.00                     | 18.40        | 430.82       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|            | 5/15/1996  | --    | d                   | 449.22       | 29.00                  | 37.00                     | --           | --           | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 8/13/1996  | --    |                     | 449.22       | 29.00                  | 37.00                     | 23.70        | 425.52       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 11/13/1996 | --    |                     | 449.22       | 29.00                  | 37.00                     | 27.15        | 422.07       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 3/26/1997  | --    |                     | 449.22       | 29.00                  | 37.00                     | 22.23        | 426.99       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|            | 5/15/1997  | --    |                     | 449.22       | 29.00                  | 37.00                     | 24.57        | 424.65       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 8/26/1997  | --    |                     | 449.22       | 29.00                  | 37.00                     | 27.62        | 421.60       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 11/5/1997  | --    |                     | 449.22       | 29.00                  | 37.00                     | 30.79        | 418.43       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 2/18/1998  | --    | d                   | 449.22       | 29.00                  | 37.00                     | --           | --           | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 5/20/1998  | --    |                     | 449.22       | 29.00                  | 37.00                     | --           | --           | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 7/30/1998  | --    |                     | 449.22       | 29.00                  | 37.00                     | 23.90        | 425.32       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 10/29/1998 | --    |                     | 449.22       | 29.00                  | 37.00                     | 30.55        | 418.67       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|            | 3/16/1999  | P     |                     | 449.22       | 29.00                  | 37.00                     | 23.05        | 426.17       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | 1.0       | -- |
| 5/5/1999   | --         |       | 449.22              | 29.00        | 37.00                  | 24.00                     | 425.22       | --           | --                | --             | --             | --                   | --                   | --          | --        |    |
| 8/26/1999  | --         |       | 449.22              | 29.00        | 37.00                  | 26.50                     | 422.72       | --           | --                | --             | --             | --                   | --                   | --          | 5.15      | -- |
| 12/3/1999  | --         |       | 449.22              | 29.00        | 37.00                  | 30.80                     | 418.42       | --           | --                | --             | --             | --                   | --                   | --          | --        | -- |
| 3/13/2000  | --         |       | d                   | 449.22       | 29.00                  | 37.00                     | 26.21        | 423.01       | --                | --             | --             | --                   | --                   | --          | --        | -- |



**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., 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-10     | 6/20/2000  | --    |                     | 449.22       | 29.00                  | 37.00                     | 23.52        | 425.70       | --                | --             | --             | --                   | --                   | --          | 5.5       | -- |
|           | 8/31/2000  | --    |                     | 449.22       | 29.00                  | 37.00                     | 27.52        | 421.70       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 2/9/2001   | --    |                     | 449.22       | 29.00                  | 37.00                     | 28.71        | 420.51       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 9/17/2001  | --    |                     | 449.22       | 29.00                  | 37.00                     | 27.94        | 421.28       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 1/21/2002  | --    |                     | 449.22       | 29.00                  | 37.00                     | 27.44        | 421.78       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 7/19/2002  | --    |                     | 449.22       | 29.00                  | 37.00                     | 27.80        | 421.42       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 1/15/2003  | --    |                     | 449.22       | 29.00                  | 37.00                     | 23.09        | 426.13       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 7/9/2003   | --    |                     | 449.22       | 29.00                  | 37.00                     | 26.87        | 422.35       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 02/19/2004 | --    |                     | 449.22       | 29.00                  | 37.00                     | 23.39        | 425.83       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 01/18/2005 | --    |                     | 451.65       | 29.00                  | 37.00                     | 21.40        | 430.25       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 07/15/2005 | --    |                     | 451.65       | 29.00                  | 37.00                     | 25.37        | 426.28       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 01/10/2006 | --    |                     | 451.65       | 29.00                  | 37.00                     | 19.81        | 431.84       | --                | --             | --             | --                   | --                   | --          | --        | -- |
| MW-11     | 3/20/1995  | --    |                     | 448.02       | 29.00                  | 39.00                     | 25.02        | 423.00       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | --          | --        | -- |
|           | 6/2/1995   | --    |                     | 448.02       | 29.00                  | 39.00                     | 23.82        | 424.20       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 8/23/1995  | --    |                     | 448.02       | 29.00                  | 39.00                     | 30.15        | 417.87       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|           | 12/4/1995  | --    |                     | 448.02       | 29.00                  | 39.00                     | 31.63        | 416.39       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 2/20/1996  | --    |                     | 448.02       | 29.00                  | 39.00                     | 20.94        | 427.08       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|           | 5/15/1996  | --    |                     | 448.02       | 29.00                  | 39.00                     | 23.03        | 424.99       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 8/13/1996  | --    |                     | 448.02       | 29.00                  | 39.00                     | 29.19        | 418.83       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|           | 11/13/1996 | --    |                     | 448.02       | 29.00                  | 39.00                     | 31.96        | 416.06       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 3/26/1997  | --    |                     | 448.02       | 29.00                  | 39.00                     | 26.61        | 421.41       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|           | 5/15/1997  | --    |                     | 448.02       | 29.00                  | 39.00                     | 29.39        | 418.63       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 8/26/1997  | --    |                     | 448.02       | 29.00                  | 39.00                     | 33.47        | 414.55       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | --        | -- |
|           | 11/5/1997  | --    |                     | 448.02       | 29.00                  | 39.00                     | 35.12        | 412.90       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 2/18/1998  | --    |                     | 448.02       | 29.00                  | 39.00                     | 18.03        | 429.99       | <50               | <0.5           | <0.5           | <0.5                 | 1                    | <3          | --        | -- |
|           | 5/20/1998  | --    |                     | 448.02       | 29.00                  | 39.00                     | 23.00        | 425.02       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 7/30/1998  | P     |                     | 448.02       | 29.00                  | 39.00                     | 29.30        | 418.72       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | 5.59      | -- |
|           | 10/29/1998 | --    |                     | 448.02       | 29.00                  | 39.00                     | 34.47        | 413.55       | --                | --             | --             | --                   | --                   | --          | --        | -- |
|           | 3/16/1999  | P     |                     | 448.02       | 29.00                  | 39.00                     | 27.88        | 420.14       | <50               | <0.5           | <0.5           | <0.5                 | <0.5                 | <3          | 1.0       | -- |
| 5/5/1999  | --         |       | 448.02              | 29.00        | 39.00                  | 26.85                     | 421.17       | --           | --                | --             | --             | --                   | --                   | --          | --        |    |
| 8/26/1999 | P          |       | 448.02              | 29.00        | 39.00                  | 32.74                     | 415.28       | <50          | <0.5              | <0.5           | <0.5           | <0.5                 | <3                   | 4.59        | --        |    |
| 12/3/1999 | --         |       | 448.02              | 29.00        | 39.00                  | 34.70                     | 413.32       | --           | --                | --             | --             | --                   | --                   | --          | --        |    |
| 3/13/2000 | P          |       | 448.02              | 29.00        | 39.00                  | 25.94                     | 422.08       | <50          | <0.5              | <0.5           | <0.5           | <0.5                 | <1                   | <3          | 3.21      | -- |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., 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    | 6/20/2000  | --    |                     | 448.02       | 29.00                  | 39.00                     | 30.40        | 417.62       | --                | --             | --             | --                   | --                   | --          | 3.3       | --  |
|          | 8/31/2000  | --    | b                   | 448.02       | 29.00                  | 39.00                     | --           | --           | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | --        | --  |
|          | 8/31/2000  | NP    |                     | 448.02       | 29.00                  | 39.00                     | 32.68        | 415.34       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 0.4       | --  |
|          | 2/9/2001   | --    |                     | 448.02       | 29.00                  | 39.00                     | 31.17        | 416.85       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 9/17/2001  | NP    |                     | 448.02       | 29.00                  | 39.00                     | 32.98        | 415.04       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 0.62      | --  |
|          | 1/21/2002  | --    |                     | 448.02       | 29.00                  | 39.00                     | 31.05        | 416.97       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 7/19/2002  | P     |                     | 448.02       | 29.00                  | 39.00                     | 31.67        | 416.35       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 3.7       | 7.7 |
|          | 1/15/2003  | --    |                     | 448.02       | 29.00                  | 39.00                     | 23.75        | 424.27       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 7/9/2003   | P     |                     | 448.02       | 29.00                  | 39.00                     | 31.06        | 416.96       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 2.4       | 6.6 |
|          | 02/19/2004 | --    |                     | 448.02       | 29.00                  | 39.00                     | 27.21        | 420.81       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 08/04/2004 | P     |                     | 450.41       | 29.00                  | 39.00                     | 31.71        | 418.70       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 3.3       | 7.1 |
|          | 01/18/2005 | --    |                     | 450.41       | 29.00                  | 39.00                     | 24.80        | 425.61       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 07/15/2005 | P     |                     | 450.41       | 29.00                  | 39.00                     | 29.15        | 421.26       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 2.7       | 7.1 |
|          | 01/10/2006 | --    |                     | 450.41       | 29.00                  | 39.00                     | 20.87        | 429.54       | --                | --             | --             | --                   | --                   | --          | --        | --  |
| RW-1     | 3/20/1995  | --    |                     | 451.67       | 25.50                  | 40.50                     | 23.76        | 427.91       | 15,000            | 1,000          | 140            | 310                  | 950                  | --          | --        | --  |
|          | 6/2/1995   | --    |                     | 451.67       | 25.50                  | 40.50                     | 25.12        | 426.55       | 12,000            | 1,300          | 280            | 420                  | 1,100                | --          | --        | --  |
|          | 8/23/1995  | --    |                     | 451.67       | 25.50                  | 40.50                     | 28.80        | 422.87       | 8,200             | 520            | 190            | 240                  | 610                  | <50         | --        | --  |
|          | 12/4/1995  | --    |                     | 451.67       | 25.50                  | 40.50                     | 31.15        | 420.52       | 2,600             | 140            | 59             | 83                   | 210                  | --          | --        | --  |
|          | 2/20/1996  | --    |                     | 451.67       | 25.50                  | 40.50                     | 21.45        | 430.22       | 6,300             | 410            | 160            | 180                  | 650                  | <40         | --        | --  |
|          | 5/15/1996  | --    |                     | 451.67       | 25.50                  | 40.50                     | 22.97        | 428.70       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 8/13/1996  | --    |                     | 451.67       | 25.50                  | 40.50                     | 24.74        | 426.93       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/13/1996 | --    |                     | 451.67       | 25.50                  | 40.50                     | 30.69        | 420.98       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 3/26/1997  | --    |                     | 451.67       | 25.50                  | 40.50                     | 25.69        | 425.98       | 500               | 57             | 3              | 6.4                  | 18                   | 54          | --        | --  |
|          | 5/15/1997  | --    |                     | 451.67       | 25.50                  | 40.50                     | 28.19        | 423.48       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 8/26/1997  | --    |                     | 451.67       | 25.50                  | 40.50                     | 31.21        | 420.46       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 11/5/1997  | --    |                     | 451.67       | 25.50                  | 40.50                     | 33.67        | 418.00       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 2/18/1998  | --    |                     | 451.67       | 25.50                  | 40.50                     | 20.14        | 431.53       | 9,400             | 200            | 70             | 190                  | 710                  | <60         | --        | --  |
|          | 5/20/1998  | --    |                     | 451.67       | 25.50                  | 40.50                     | 23.43        | 428.24       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 7/30/1998  | --    |                     | 451.67       | 25.50                  | 40.50                     | 27.42        | 424.25       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 10/29/1998 | --    |                     | 451.67       | 25.50                  | 40.50                     | 32.47        | 419.20       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 3/16/1999  | NP    |                     | 451.67       | 25.50                  | 40.50                     | 25.45        | 426.22       | 1,100             | 140            | 19             | 45                   | 83                   | 530         | 1.0       | --  |
|          | 5/5/1999   | --    |                     | 451.67       | 25.50                  | 40.50                     | 27.23        | 424.44       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 8/26/1999  | --    |                     | 451.67       | 25.50                  | 40.50                     | 29.98        | 421.69       | --                | --             | --             | --                   | --                   | --          | 1.39      | --  |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., 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  |
|----------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|-----|
| RW-1     | 12/3/1999  | --    |                     | 451.67       | 25.50                  | 40.50                     | 32.38        | 419.29       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 3/13/2000  | NP    |                     | 451.67       | 25.50                  | 40.50                     | 25.53        | 426.14       | 1,100             | 130            | 3.5            | 0.7                  | 95                   | 230         | 4.43      | --  |
|          | 6/20/2000  | --    |                     | 451.67       | 25.50                  | 40.50                     | 28.31        | 423.36       | --                | --             | --             | --                   | --                   | --          | 1.9       | --  |
|          | 8/31/2000  | NP    |                     | 451.67       | 25.50                  | 40.50                     | 30.61        | 421.06       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | 82.5        | 3.21      | --  |
|          | 2/9/2001   | NP    |                     | 451.67       | 25.50                  | 40.50                     | 31.14        | 420.53       | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 0.84      | --  |
|          | 9/17/2001  | NP    |                     | 451.67       | 25.50                  | 40.50                     | 31.70        | 419.97       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 1.51      | --  |
|          | 1/21/2002  | NP    |                     | 451.67       | 25.50                  | 40.50                     | 30.15        | 421.52       | <50               | 7.7            | <0.50          | <0.50                | 1.5                  | 18          | 0.63      | --  |
|          | 7/19/2002  | NP    |                     | 451.67       | 25.50                  | 40.50                     | 31.15        | 420.52       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 13          | 1.4       | 6.6 |
|          | 1/15/2003  | --    | a                   | 451.67       | 25.50                  | 40.50                     | 22.20        | 429.47       | 860               | 9              | 1.6            | 17                   | 42                   | 1.5         | 2.8       | 7.2 |
|          | 7/9/2003   | --    |                     | 451.67       | 25.50                  | 40.50                     | 29.56        | 422.11       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 1.8       | 7.1 |
|          | 02/19/2004 | NP    | c                   | 451.67       | 26.50                  | 40.50                     | 23.53        | 428.14       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 2.4       | 6.7 |
|          | 08/04/2004 | P     |                     | 454.11       | 25.50                  | 40.50                     | 22.45        | 431.66       | 600               | <0.50          | <0.50          | 3.3                  | 3.4                  | <0.50       | 4.4       | 7.2 |
|          | 01/18/2005 | P     |                     | 454.11       | 25.50                  | 40.50                     | 23.57        | 430.54       | 1,400             | 8.0            | 1.9            | 22                   | 68                   | <0.50       | 3.6       | 6.9 |
|          | 07/15/2005 | NP    |                     | 454.11       | 25.50                  | 40.50                     | 29.02        | 425.09       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | 2.0         | 1.1       | 7.8 |
|          | 01/10/2006 | P     |                     | 454.11       | 25.50                  | 40.50                     | 21.88        | 432.23       | 480               | 4.3            | 0.67           | 8.3                  | 18                   | 0.54        | 4.4       | 7.1 |
| VW-1     | 8/31/2000  | P     |                     | --           | 18.50                  | 28.50                     | 20.61        | --           | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 10.08     | --  |
|          | 2/9/2001   | P     |                     | --           | 18.50                  | 28.50                     | 22.10        | --           | <50.0             | <0.500         | <0.500         | <0.500               | <0.500               | <2.50       | 0.53      | --  |
|          | 9/17/2001  | P     |                     | --           | 18.50                  | 28.50                     | 21.99        | --           | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <2.5        | 6.59      | --  |
|          | 1/21/2002  | P     |                     | --           | 18.50                  | 28.50                     | 21.50        | --           | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <5.0        | 0.7       | --  |
|          | 7/19/2002  | P     |                     | --           | 18.50                  | 28.50                     | 22.42        | --           | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 4.9       | 7.1 |
|          | 1/15/2003  | --    |                     | --           | 18.50                  | 28.50                     | 22.59        | --           | <50               | <0.50          | <0.50          | 0.63                 | 1.7                  | <0.50       | 5.4       | 7.2 |
|          | 7/9/2003   | --    |                     | --           | 18.50                  | 28.50                     | 22.50        | --           | <50               | <0.50          | <0.50          | <0.50                | 0.61                 | <0.50       | 2.0       | 7.0 |
|          | 02/19/2004 | --    |                     | --           | 18.50                  | 28.50                     | 21.04        | --           | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 08/04/2004 | P     |                     | 453.29       | 18.50                  | 28.50                     | 20.48        | 432.81       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 5.7       | 7.0 |
|          | 01/18/2005 | --    |                     | 453.29       | 18.50                  | 28.50                     | 21.72        | 431.57       | --                | --             | --             | --                   | --                   | --          | --        | --  |
|          | 07/15/2005 | P     |                     | 453.29       | 18.50                  | 28.50                     | 22.50        | 430.79       | <50               | <0.50          | <0.50          | <0.50                | <0.50                | <0.50       | 5.1       | 7.4 |
|          | 01/10/2006 | --    |                     | 453.29       | 18.50                  | 28.50                     | 20.17        | 433.12       | --                | --             | --             | --                   | --                   | --          | --        | --  |

**Table 1**

**Groundwater Elevation and Analytical Data**

ARCO Service Station #0771  
899 Rincon Ave., Livermore, CA

**SYMBOLS AND ABBREVIATIONS:**

--/- - = Not analyzed/applicable/sampled/measured  
< = Not detected at or above specified laboratory reporting limit  
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 in ft MSL  
µg/L = Micrograms per liter  
mg/L = Milligrams per liter  
MTBE = Methyl tert-butyl ether  
NP = Not purged before sampling  
P = Purged before sampling  
TPH-g = Total petroleum hydrocarbons as gasoline  
TOC = Top of casing elevation in ft MSL

**FOOTNOTES:**

a = Chromatogram Pattern: Gasoline C6-C10  
b = Duplicate sample  
c = GRO analyzed by EPA Method 8015B modified  
d = Well inaccessible

**NOTES:**

For previous historical GWE and analytical data please refer to Fourth Quarter 1995 Groundwater Monitoring Program Results and Remediation System Performance Evaluation Report, ARCO Service Station 771, Livermore, California, (EMCON, March 1, 1996).

Please note that 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 inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

All analytes unless otherwise notes utilized EPA Method 8260B, EPA method 8015B modified prior to 1/15/03, and EPA method 8020 prior to 12/03/99.

Site wells were resurveyed to NAVD '88 datum on March 8, 2004.

Top of screen and bottom of screen depths for MW-3 and MW-6 are estimated from cross-sections.

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

Table 2

**Fuel Additives Analytical Data**  
**ARCO Service Station #0771**  
**899 Rincon Ave., 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-2        | 7/9/2003     | <1,000         | <200       | 39          | <5.0        | <5.0        | <5.0        | <5.0           | <5.0       |                    |
|             | 08/04/2004   | <2,000         | <400       | 78          | <10         | <10         | <10         | <10            | <10        |                    |
|             | 07/15/2005   | <500           | 120        | 46          | <2.5        | <2.5        | <2.5        | <2.5           | <2.5       |                    |
| MW-4        | 7/9/2003     | <1,000         | 750        | 150         | <5.0        | <5.0        | <5.0        | <5.0           | <5.0       |                    |
|             | 02/19/2004   | <1,000         | 630        | 180         | <10         | <10         | <10         | <5.0           | <5.0       |                    |
|             | 08/04/2004   | <2,000         | 1,300      | 300         | <10         | <10         | <10         | <10            | <10        |                    |
|             | 01/18/2005   | <1,000         | 630        | 160         | <5.0        | <5.0        | <5.0        | <5.0           | <5.0       | a                  |
|             | 07/15/2005   | <1,000         | 850        | 230         | <5.0        | <5.0        | <5.0        | <5.0           | <5.0       |                    |
|             | 01/10/2006   | <1,500         | 810        | 190         | <2.5        | <2.5        | <2.5        | <2.5           | <2.5       |                    |
| MW-5        | 7/9/2003     | <1,000         | 1,100      | 260         | <5.0        | <5.0        | <5.0        | <5.0           | <5.0       |                    |
|             | 08/04/2004   | <1,000         | 850        | 250         | <5.0        | <5.0        | <5.0        | <5.0           | <5.0       |                    |
|             | 07/15/2005   | <1,000         | 720        | 270         | <5.0        | <5.0        | <5.0        | <5.0           | <5.0       |                    |
| MW-6        | 7/9/2003     | <100           | <20        | 0.98        | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                    |
|             | 08/04/2004   | <100           | <20        | 5.2         | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                    |
|             | 07/15/2005   | <500           | 110        | 32          | <2.5        | <2.5        | <2.5        | <2.5           | <2.5       |                    |
| MW-7        | 7/9/2003     | <1,000         | 350        | 110         | <5.0        | <5.0        | <5.0        | <5.0           | <5.0       |                    |
|             | 02/19/2004   | <1,000         | 420        | 100         | <10         | <10         | <10         | <5.0           | <5.0       |                    |
|             | 08/04/2004   | <5,000         | <1,000     | 140         | <25         | <25         | <25         | <25            | <25        |                    |
|             | 01/18/2005   | <1,000         | 260        | 87          | <5.0        | <5.0        | <5.0        | <5.0           | <5.0       | a                  |
|             | 07/15/2005   | <5,000         | <1,000     | 150         | <25         | <25         | <25         | <25            | <25        |                    |
|             | 01/10/2006   | <30,000        | <2,000     | 120         | <50         | <50         | <50         | <50            | <50        |                    |
| MW-11       | 7/9/2003     | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                    |
|             | 08/04/2004   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                    |
|             | 07/15/2005   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                    |
| RW-1        | 7/9/2003     | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                    |
|             | 02/19/2004   | <100           | <20        | <0.50       | <1.0        | <1.0        | <1.0        | <0.50          | <0.50      |                    |
|             | 08/04/2004   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                    |
|             | 01/18/2005   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      | a                  |
|             | 07/15/2005   | <100           | <20        | 2.0         | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                    |
|             | 01/10/2006   | <300           | <20        | 0.54        | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                    |

**Table 2**

**Fuel Additives Analytical Data**  
ARCO Service Station #0771  
899 Rincon Ave., 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 |
|-------------|--------------|----------------|------------|-------------|-------------|-------------|-------------|----------------|------------|---------------------|
| VW-1        | 7/9/2003     | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 08/04/2004   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |
|             | 07/15/2005   | <100           | <20        | <0.50       | <0.50       | <0.50       | <0.50       | <0.50          | <0.50      |                     |

**Table 2**

**Fuel Additives Analytical Data**  
ARCO Service Station #0771  
899 Rincon Ave., Livermore, CA

**SYMBOLS AND ABBREVIATIONS:**

< = Not detected at or above specified 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

µg/L = Micrograms per liter

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

**FOOTNOTES:**

a = Calibration verification was within the method limits but outside the contract limits for ethanol.

**Table 3**

**Groundwater Gradient Data**  
 ARCO Service Station #0771  
 899 Rincon Ave., Livermore, CA

| <b>Date Sampled</b> | <b>Approximate Flow Direction</b> | <b>Approximate Hydraulic Gradient</b> |
|---------------------|-----------------------------------|---------------------------------------|
| 3/20/1995           | Northwest                         | 0.030                                 |
| 6/2/1995            | North-Northwest                   | 0.014                                 |
| 8/23/1995           | North-Northwest                   | 0.030                                 |
| 12/4/1995           | North-Northwest                   | 0.030                                 |
| 2/20/1996           | Northwest                         | 0.016                                 |
| 5/15/1996           | Northwest                         | 0.024                                 |
| 8/13/1996           | North-Northwest                   | 0.030                                 |
| 11/13/1996          | North-Northwest                   | 0.031                                 |
| 3/26/1997           | North-Northwest                   | 0.044                                 |
| 5/15/1997           | North-Northwest                   | 0.031                                 |
| 8/26/1997           | North-Northwest                   | 0.042                                 |
| 11/5/1997           | North-Northwest                   | 0.030                                 |
| 2/18/1998           | Northwest                         | 0.010                                 |
| 5/20/1998           | Northwest                         | 0.030                                 |
| 7/30/1998           | North                             | 0.040                                 |
| 10/29/1998          | North                             | 0.005                                 |
| 3/16/1999           | North-Northwest                   | 0.030                                 |
| 5/5/1999            | North                             | 0.040                                 |
| 8/26/1999           | North-Northwest                   | 0.050                                 |
| 12/3/1999           | North-Northeast                   | 0.060                                 |
| 3/13/2000           | North-Northwest                   | 0.066                                 |
| 6/20/2000           | North-Northwest                   | 0.050                                 |
| 8/31/2000           | North-Northwest                   | 0.062                                 |
| 2/9/2001            | North-Northeast                   | 0.014                                 |
| 9/17/2001           | North-Northwest                   | 0.061                                 |
| 1/21/2002           | North-Northwest                   | 0.050                                 |
| 7/19/2002           | North-Northwest                   | 0.044                                 |
| 1/15/2003           | Northeast to Southeast            | 0.038 - 0.016                         |
| 7/9/2003            | Northwest to North-Northwest      | 0.009 - 0.063                         |
| 2/19/2004           | North                             | 0.044                                 |
| 8/4/2004            | Northeast                         | 0.071                                 |
| 1/18/2005           | North-Northeast                   | 0.04                                  |
| 7/15/2005           | Northeast and Southwest           | 0.05 and 0.02                         |
| 1/10/2006           | North                             | 0.02                                  |

The data within this table collected prior to July 2002 was provided to URS by BP Remediation Management 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™ 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 # 060110-VTI Date 11/10/06 Client FFI

Site 899 Rincon Ave, 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 <u>OC</u> |          |
|---------|-----------------|--------------|----------------------------------|--------------------------------------|------------------------------------|---------------------------|----------------------------|--------------------------------|----------|
| MW-1    | 4               |              |                                  |                                      |                                    | 22.58                     | 30.75                      |                                |          |
| MW-2    | 4               |              |                                  |                                      |                                    | 19.25                     | 33.82                      |                                |          |
| MW-3    | 4               |              |                                  |                                      |                                    | 21.18                     | 39.70                      |                                |          |
| MW-4    | 4               |              |                                  |                                      |                                    | 21.49                     | 41.50                      |                                | NP 26    |
| MW-5    | 4               |              |                                  |                                      |                                    | 22.19                     | 40.23                      |                                |          |
| MW-6    | 4               |              |                                  |                                      |                                    | <del>19</del> 23.75       | 43.40                      |                                |          |
| MW-7    | 4               |              |                                  |                                      |                                    | 20.61                     | 39.65                      |                                |          |
| MW-8    | 2               |              |                                  |                                      |                                    | 22.88                     | 41.71                      |                                |          |
| MW-9    | 2               |              |                                  |                                      |                                    | 18.86                     | 39.14                      |                                |          |
| MW-10   | 2               |              |                                  |                                      |                                    | 19.81                     | 34.15                      |                                |          |
| MW-11   | 2               |              |                                  |                                      |                                    | 20.87                     | 38.68                      |                                |          |
| RW-1    | 6               |              |                                  |                                      |                                    | <del>21.88</del><br>21.88 | 39.67                      |                                | NP 25.5' |
| VW-1    | 4               |              |                                  |                                      |                                    | 20.17                     | 28.81                      | ✓                              |          |
|         |                 |              |                                  |                                      |                                    |                           |                            |                                |          |
|         |                 |              |                                  |                                      |                                    |                           |                            |                                |          |
|         |                 |              |                                  |                                      |                                    |                           |                            |                                |          |
|         |                 |              |                                  |                                      |                                    |                           |                            |                                |          |

## ARCO / BP WELL MONITORING DATA SHEET

|                                 |  |
|---------------------------------|--|
| BTS #: <u>060110-MTT</u>        | Station # <u>771</u>                   |
| Sampler: <u>MTT, JD</u>         | Date: <u>1/10/06</u>                   |
| Well I.D.: <u>MW-A</u>          | Well Diameter: 2 3 <u>4</u> 6 8 _____  |
| Total Well Depth: <u>41.30</u>  | Depth to Water: <u>21.49</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>12.9</u>           | x | <u>3</u>          | = | <u>38.7</u>       | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Conductivity (mS or <u>µS</u> ) | Gals. Removed | Observations    |
|------|-----------|-----|---------------------------------|---------------|-----------------|
| 1134 | 67.0      | 6.9 | 1167                            | 12.9          | clear, gas odor |
| 1136 | 67.9      | 7.0 | 1169                            | 25.8          | " "             |
| 1138 | 69.9      | 7.1 | 1156                            | 38.7          | " "             |
|      |           |     |                                 |               |                 |
|      |           |     |                                 |               |                 |

Did well dewater? Yes   No      Gallons actually evacuated: 38.7

Sampling Time: 1145      Sampling Date: 1/10/06

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

Analyzed for:  GRO  BTEX      MTBE      DRO       Oxy<sup>3</sup>       L<sub>2</sub>-DPA       GDB       Ethanol      Other: \_\_\_\_\_

|                    |            |      |   |     |      |
|--------------------|------------|------|---|-----|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | <input checked="" type="checkbox"/> Post-purge: | 1.3 | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge:                                     |     | mV   |

## ARCO / BP WELL MONITORING DATA SHEET

|                                   |  |
|-----------------------------------|--|
| BTS #: <u>060110-MT</u>           | Station # <u>771</u>                     |
| Sampler: <u>MT, (D)</u>           | Date: <u>1/10/06</u>                     |
| Well I.D.: <u>MW-7</u>            | Well Diameter: 2 3 <u>(4)</u> 6 8        |
| Total Well Depth: <u>39.65</u>    | Depth to Water: <u>20.61</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>12.4</u>           | x | <u>3</u>          | = | <u>37.2</u>       | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time            | Temp (°F)          | pH      | Conductivity (mS or $\mu$ S) | Gals. Removed | Observations           |
|-----------------|--------------------|---------|------------------------------|---------------|------------------------|
| 1200            | 69.2               | 7.1     | 1119                         | 12.4          | strong gas odor, clear |
| 1202            | 69.8               | 7.1     | 1106                         | 24.8          | " "                    |
| 1205 <u>(D)</u> | DEWATERED @ 12.4 g |         |                              |               |                        |
| 1210            | DTW <u>(D)</u>     | 69.2488 |                              |               |                        |
|                 | 68.7               | 7.1     | 1105                         | —             |                        |

Did well dewater? Yes      No      Gallons actually evacuated: 24.8

Sampling Time: 1210      Sampling Date: 1/10/06

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

Analyzed for: (GRA) (TEX) (MSE) DRO (Oxy's) (2-DCM) (EDR) (Ethanol) Other: \_\_\_\_\_

|                    |            |      |                                     |      |
|--------------------|------------|------|-------------------------------------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: <u>(D)</u> <u>150.8</u> | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge:                         | mV   |

## ARCO / BP WELL MONITORING DATA SHEET

|                                |  |
|--------------------------------|--|
| BTS #: <u>D0D110-MTI</u>       | Station # <u>771</u>                   |
| Sampler: <u>MT</u> <u>TD</u>   | Date: <u>1/10/06</u>                   |
| Well I.D.: <u>RW-1</u>         | Well Diameter: 2 3 4 <u>6</u> 8        |
| Total Well Depth: <u>39.67</u> | Depth to Water: <u>21.89</u>           |
| Depth to Free Product:         | Thickness of Free Product (feet):      |
| Referenced to: <u>VE</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>26.2</u>           | x | <u>3</u>          | = | <u>78.6</u> Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |

| Time | Temp (°F) | pH  | Conductivity (mS or $\mu$ S) | Gals. Removed | Observations |
|------|-----------|-----|------------------------------|---------------|--------------|
| 1052 | 67.7      | 6.5 | 842                          | 26.2          | clear        |
| 1057 | 68.9      | 6.9 | 884                          | 52.4          | "            |
| 1102 | 69.7      | 7.1 | 855                          | 78.6          | "            |
|      |           |     |                              |               |              |
|      |           |     |                              |               |              |

Did well dewater? Yes  No       Gallons actually evacuated: 78.6

Sampling Time: 1107      Sampling Date: 1/10/06

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

Analyzed for: ORO BTEX MTBE DRG Oxy's 2-DCA EDR Etanol Other: \_\_\_\_\_

|                    |            |      |             |                 |
|--------------------|------------|------|-------------|-----------------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | <u>4.4</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:

771

Station #

899 Rincon Ave., Livermore

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

145 gallons

added equip. rinse water 5

any other adjustments 0

**TOTAL GALS. RECOVERED** 150

loaded onto BTS vehicle # 63

BTS event # 060110-MTI

time date 1215 1/10/06

signature [Signature]

\*\*\*\*\*

REC'D AT BTS

time date 1110/06

unloaded by signature [Signature]

**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 Atlantic Richfield Company have been reviewed and verified by that laboratory.



9 February, 2006

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

RE: ARCO #0771, Livermore, CA  
Work Order: MPA0779

Enclosed are the results of analyses for samples received by the laboratory on 01/11/06 14:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race  
Senior 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]<br>1333 Broadway, Suite 800<br>Oakland CA, 94612 | Project: ARCO #0771, Livermore, CA<br>Project Number: G0C1M-0004<br>Project Manager: Scott Robinson | MPA0779<br><b>Reported:</b><br>02/09/06 17:49 |
|---|---|---|

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID       | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------------|---------------|--------|----------------|----------------|
| RW-1            | MPA0779-01    | Water  | 01/10/06 11:07 | 01/11/06 14:35 |
| MW-4            | MPA0779-02    | Water  | 01/10/06 11:45 | 01/11/06 14:35 |
| MW-7            | MPA0779-03    | Water  | 01/10/06 12:10 | 01/11/06 14:35 |
| TB-771-01102006 | MPA0779-04    | Water  | 01/10/06 00:00 | 01/11/06 14:35 |

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

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

Project: ARCO #0771, Livermore, CA  
Project Number: G0C1M-0004  
Project Manager: Scott Robinson

MPA0779  
Reported:  
02/09/06 17:49

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

| Analyte   | Result      | Reporting<br>Limit | Units         | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---|-------------|--------------------|---------------|----------|---------|----------|----------|-----------|-------|
| <b>RW-1 (MPA0779-01) Water    Sampled: 01/10/06 11:07    Received: 01/11/06 14:35</b> |             |                    |               |          |         |          |          |           |       |
| tert-Amyl methyl ether  | ND          | 0.50               | ug/l          | 1        | 6A24008 | 01/24/06 | 01/24/06 | EPA 8260B |       |
| <b>Benzene</b>  | <b>4.3</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          | 300                | "             | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether  | ND          | 0.50               | "             | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>   | <b>8.3</b>  | 0.50               | "             | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>  | <b>0.54</b> | 0.50               | "             | "        | "       | "        | "        | "         |       |
| <b>Toluene</b>  | <b>0.67</b> | 0.50               | "             | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b>  | <b>18</b>   | 0.50               | "             | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Organics (C4-C12)</b>   | <b>480</b>  | 50                 | "             | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>   |             | <i>111 %</i>       | <i>60-135</i> |          |         |          |          |           |       |
| <b>MW-4 (MPA0779-02) Water    Sampled: 01/10/06 11:45    Received: 01/11/06 14:35</b> |             |                    |               |          |         |          |          |           |       |
| tert-Amyl methyl ether  | ND          | 2.5                | ug/l          | 5        | 6A24008 | 01/24/06 | 01/24/06 | EPA 8260B |       |
| <b>Benzene</b>  | <b>250</b>  | 2.5                | "             | "        | "       | "        | "        | "         |       |
| <b>tert-Butyl alcohol</b>   | <b>810</b>  | 100                | "             | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether  | ND          | 2.5                | "             | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)   | ND          | 2.5                | "             | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane  | ND          | 2.5                | "             | "        | "       | "        | "        | "         |       |
| Ethanol   | ND          | 1500               | "             | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether  | ND          | 2.5                | "             | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>   | <b>37</b>   | 2.5                | "             | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>  | <b>190</b>  | 2.5                | "             | "        | "       | "        | "        | "         |       |
| <b>Toluene</b>  | <b>7.6</b>  | 2.5                | "             | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b>  | <b>25</b>   | 2.5                | "             | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Organics (C4-C12)</b>   | <b>5500</b> | 250                | "             | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>   |             | <i>124 %</i>       | <i>60-135</i> |          |         |          |          |           |       |

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

Project: ARCO #0771, Livermore, CA  
Project Number: G0C1M-0004  
Project Manager: Scott Robinson

MPA0779  
Reported:  
02/09/06 17:49

**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-7 (MPA0779-03) Water    Sampled: 01/10/06 12:10    Received: 01/11/06 14:35</b> |              |                    |       |          |         |          |          |           |       |
| tert-Amyl methyl ether  | ND           | 50                 | ug/l  | 100      | 6A24008 | 01/24/06 | 01/24/06 | EPA 8260B |       |
| <b>Benzene</b>  | <b>1200</b>  | 50                 | "     | "        | "       | "        | "        | "         |       |
| tert-Butyl alcohol  | ND           | 2000               | "     | "        | "       | "        | "        | "         |       |
| Di-isopropyl ether  | ND           | 50                 | "     | "        | "       | "        | "        | "         |       |
| 1,2-Dibromoethane (EDB)   | ND           | 50                 | "     | "        | "       | "        | "        | "         |       |
| 1,2-Dichloroethane  | ND           | 50                 | "     | "        | "       | "        | "        | "         |       |
| Ethanol   | ND           | 30000              | "     | "        | "       | "        | "        | "         |       |
| Ethyl tert-butyl ether  | ND           | 50                 | "     | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>   | <b>760</b>   | 50                 | "     | "        | "       | "        | "        | "         |       |
| <b>Methyl tert-butyl ether</b>  | <b>120</b>   | 50                 | "     | "        | "       | "        | "        | "         |       |
| <b>Toluene</b>  | <b>50</b>    | 50                 | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b>  | <b>330</b>   | 50                 | "     | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Organics (C4-C12)</b>   | <b>13000</b> | 5000               | "     | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i>   |              | 92 %               |       | 60-135   | "       | "        | "        | "         |       |



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

Project: ARCO #0771, Livermore, CA  
Project Number: G0C1M-0004  
Project Manager: Scott Robinson

MPA0779  
Reported:  
02/09/06 17:49

**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 6A24008 - EPA 5030B P/T / EPA 8260B**

**Blank (6A24008-BLK1)**

Prepared & Analyzed: 01/24/06

|   |             |      |          |             |  |           |               |  |  |  |
|---|-------------|------|----------|-------------|--|-----------|---------------|--|--|--|
| 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          | 300  | "        |             |  |           |               |  |  |  |
| 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> | <i>4.88</i> |      | <i>"</i> | <i>5.00</i> |  | <i>98</i> | <i>60-135</i> |  |  |  |

**Laboratory Control Sample (6A24008-BS1)**

Prepared & Analyzed: 01/24/06

|   |             |      |          |             |  |           |               |  |  |    |
|---|-------------|------|----------|-------------|--|-----------|---------------|--|--|----|
| tert-Amyl methyl ether                  | 19.2        | 0.50 | ug/l     | 16.3        |  | 118       | 80-115        |  |  | HL |
| Benzene                                 | 5.12        | 0.50 | "        | 5.04        |  | 102       | 65-115        |  |  |    |
| tert-Butyl alcohol                      | 164         | 20   | "        | 169         |  | 97        | 75-150        |  |  |    |
| Di-isopropyl ether                      | 18.0        | 0.50 | "        | 16.2        |  | 111       | 75-125        |  |  |    |
| 1,2-Dibromoethane (EDB)                 | 16.9        | 0.50 | "        | 16.6        |  | 102       | 85-120        |  |  |    |
| 1,2-Dichloroethane                      | 16.4        | 0.50 | "        | 15.5        |  | 106       | 85-130        |  |  |    |
| Ethanol                                 | 176         | 300  | "        | 165         |  | 107       | 70-135        |  |  |    |
| Ethyl tert-butyl ether                  | 17.7        | 0.50 | "        | 16.4        |  | 108       | 75-130        |  |  |    |
| Ethylbenzene                            | 8.31        | 0.50 | "        | 7.28        |  | 114       | 75-135        |  |  |    |
| Methyl tert-butyl ether                 | 7.33        | 0.50 | "        | 7.84        |  | 93        | 65-125        |  |  |    |
| Toluene                                 | 38.0        | 0.50 | "        | 38.0        |  | 100       | 85-120        |  |  |    |
| Xylenes (total)                         | 45.9        | 0.50 | "        | 40.8        |  | 112       | 85-125        |  |  |    |
| Gasoline Range Organics (C4-C12)        | 382         | 50   | "        | 440         |  | 87        | 60-140        |  |  |    |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>4.77</i> |      | <i>"</i> | <i>5.00</i> |  | <i>95</i> | <i>60-135</i> |  |  |    |

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

 Project: ARCO #0771, Livermore, CA  
 Project Number: G0C1M-0004  
 Project Manager: Scott Robinson

 MPA0779  
 Reported:  
 02/09/06 17:49

**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 6A24008 - EPA 5030B P/T / EPA 8260B**

| <b>Matrix Spike (6A24008-MS1)</b>       | <b>Source: MPA0779-02</b> |      |          | <b>Prepared &amp; Analyzed: 01/24/06</b> |      |            |               |  |  |       |
|---|---------------------------|------|----------|--|------|------------|---------------|--|--|-------|
| tert-Amyl methyl ether                  | 110                       | 2.5  | ug/l     | 81.6                                     | ND   | 135        | 80-115        |  |  | HL    |
| Benzene                                 | 282                       | 2.5  | "        | 25.2                                     | 250  | 127        | 65-115        |  |  | BB,LM |
| tert-Butyl alcohol                      | 1700                      | 100  | "        | 844                                      | 810  | 105        | 75-120        |  |  |       |
| Di-isopropyl ether                      | 85.5                      | 2.5  | "        | 81.2                                     | 0.60 | 105        | 75-125        |  |  |       |
| 1,2-Dibromoethane (EDB)                 | 82.3                      | 2.5  | "        | 83.2                                     | ND   | 99         | 85-120        |  |  |       |
| 1,2-Dichloroethane                      | 74.9                      | 2.5  | "        | 77.6                                     | 1.2  | 95         | 85-130        |  |  | LN    |
| Ethanol                                 | 860                       | 1500 | "        | 824                                      | ND   | 104        | 70-135        |  |  |       |
| Ethyl tert-butyl ether                  | 90.6                      | 2.5  | "        | 82.0                                     | ND   | 110        | 75-130        |  |  |       |
| Ethylbenzene                            | 78.4                      | 2.5  | "        | 36.4                                     | 37   | 114        | 75-135        |  |  |       |
| Methyl tert-butyl ether                 | 235                       | 2.5  | "        | 39.2                                     | 190  | 115        | 65-125        |  |  |       |
| Toluene                                 | 197                       | 2.5  | "        | 190                                      | 7.6  | 100        | 85-120        |  |  |       |
| Xylenes (total)                         | 242                       | 2.5  | "        | 204                                      | 25   | 106        | 85-125        |  |  |       |
| Gasoline Range Organics (C4-C12)        | 8330                      | 250  | "        | 2200                                     | 5500 | 129        | 60-140        |  |  |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>5.46</i>               |      | <i>"</i> | <i>5.00</i>                              |      | <i>109</i> | <i>60-135</i> |  |  |       |

| <b>Matrix Spike Dup (6A24008-MSD1)</b>  | <b>Source: MPA0779-02</b> |      |          | <b>Prepared &amp; Analyzed: 01/24/06</b> |      |            |               |     |    |       |
|---|---------------------------|------|----------|--|------|------------|---------------|-----|----|-------|
| tert-Amyl methyl ether                  | 109                       | 2.5  | ug/l     | 81.6                                     | ND   | 134        | 80-115        | 0.9 | 15 | HL    |
| Benzene                                 | 280                       | 2.5  | "        | 25.2                                     | 250  | 119        | 65-115        | 0.7 | 20 | BB,LM |
| tert-Butyl alcohol                      | 1670                      | 100  | "        | 844                                      | 810  | 102        | 75-120        | 2   | 25 |       |
| Di-isopropyl ether                      | 82.5                      | 2.5  | "        | 81.2                                     | 0.60 | 101        | 75-125        | 4   | 15 |       |
| 1,2-Dibromoethane (EDB)                 | 83.3                      | 2.5  | "        | 83.2                                     | ND   | 100        | 85-120        | 1   | 15 |       |
| 1,2-Dichloroethane                      | 72.8                      | 2.5  | "        | 77.6                                     | 1.2  | 92         | 85-130        | 3   | 20 | LN    |
| Ethanol                                 | 781                       | 1500 | "        | 824                                      | ND   | 95         | 70-135        | 10  | 35 |       |
| Ethyl tert-butyl ether                  | 86.3                      | 2.5  | "        | 82.0                                     | ND   | 105        | 75-130        | 5   | 25 |       |
| Ethylbenzene                            | 81.3                      | 2.5  | "        | 36.4                                     | 37   | 122        | 75-135        | 4   | 15 |       |
| Methyl tert-butyl ether                 | 228                       | 2.5  | "        | 39.2                                     | 190  | 97         | 65-125        | 3   | 20 |       |
| Toluene                                 | 186                       | 2.5  | "        | 190                                      | 7.6  | 94         | 85-120        | 6   | 20 |       |
| Xylenes (total)                         | 258                       | 2.5  | "        | 204                                      | 25   | 114        | 85-125        | 6   | 20 |       |
| Gasoline Range Organics (C4-C12)        | 8260                      | 250  | "        | 2200                                     | 5500 | 125        | 60-140        | 0.8 | 25 |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>5.35</i>               |      | <i>"</i> | <i>5.00</i>                              |      | <i>107</i> | <i>60-135</i> |     |    |       |

Sequoia Analytical - Morgan Hill

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



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

Project:ARCO #0771, Livermore, CA  
Project Number:G0C1M-0004  
Project Manager:Scott Robinson

MPA0779  
Reported:  
02/09/06 17:49

**Notes and Definitions**

LN MS and/or MSD below acceptance limits. See Blank Spike(LCS).  
HL Analyte recovery above established limit  
BB,LM Sample > 4x spike concentration. MS and/or MSD above acceptance limits. See Blank Spike(LCS).  
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 > 771 > Historical/BL  
**State or Lead Regulatory Agency:** California Regional Water Quality Control Board - San Fr  
**Requested Due Date (mm/dd/yy):** 10 Day TAT

|                          |              |
|--------------------------|--------------|
| On-site Time: 0815       | Temp: 60°    |
| Off-site Time: 1245      | Temp: 65°    |
| Sky Conditions: CLEAR    |              |
| Meteorological Events: — |              |
| Wind Speed: —            | Direction: — |

|  |  |  |
|--|--|--|
| Lab Name: Sequoia                                  | BP/AR Facility No.: 771                                      | Consultant/Contractor: URS                             |
| Address: 885 Jarvis Drive<br>Morgan Hill, CA 95037 | BP/AR Facility Address: 899 Rincon Ave., Livermore, CA 94550 | Address: 1333 Broadway, Suite 800<br>Oakland, CA 94612 |
| Lab PM: Lisa Race                                  | California Global ID No.: T0600100113                        | Consultant/Contractor Project No.: 38487017            |
| Tele/Fax: 408.782.8156 / 408.782.6308              | Enfos Project No.: GOC1M-0004                                | Consultant/Contractor PM: Scott Robinson               |
| BP/AR PM Contact: Paul Supple                      | Provision or RCOP: Provision                                 | Tele/Fax: 510.874.3280 / 510.874.3268                  |
| Address: P.O. Box 6549<br>Moraga, CA 94570         | Phase/WBS: 04 - Mon/Remed by Natural Attenuation             | Report Type & QC Level: Level I with EDF               |
| Tele/Fax: 925.299.8891 / 925.299.8872              | Sub Phase/Task: 03 - Analytical                              | E-mail EDD To: Donna.Cosper@urscorp.com                |
|  | Cost Element: 05 - Subcontracted Costs                       | Invoice to: Atlantic Richfield Company                 |

| Item No. | Sample Description | Time | Date     | Matrix     |              |     | Laboratory No. | No. of Containers | Preservative |                                |                  |     |          | Requested Analysis |                          |                   |                      |                 | Sample Point Lat/Long and Comments |  |  |  |  |  |  |  |         |
|----------|--------------------|------|----------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|--------------------------|-------------------|----------------------|-----------------|------------------------------------|--|--|--|--|--|--|--|---------|
|          |                    |      |          | Soil/Solid | Water/Liquid | Air |                |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | Methanol | SRO / BTEX (\$250) | MIBB, TAME, ETBE (\$250) | DIPE, TEA (\$250) | EDB, 1,2-DCA (\$250) | Ethanol (\$250) |                                    |  |  |  |  |  |  |  |         |
| 1        | RW-1               | 1107 | 01/10/06 | W          |              |     | 01             | 3                 |              |                                |                  |     |          | X                  | X                        | X                 | X                    |                 |                                    |  |  |  |  |  |  |  |         |
| 2        | MW-4               | 1145 | 01/10/06 | W          |              |     | 02             | 1                 |              |                                |                  |     |          |                    | X                        | X                 | X                    | X               |                                    |  |  |  |  |  |  |  |         |
| 3        | MW-7               | 1210 | 01/10/06 | W          |              |     | 03             | 1                 |              |                                |                  |     |          |                    | X                        | X                 | X                    | X               |                                    |  |  |  |  |  |  |  |         |
| 4        | TB-771-01102006    |      | 01/10/06 | W          |              |     | 04             | 2                 |              |                                |                  |     |          |                    |                          |                   |                      |                 |                                    |  |  |  |  |  |  |  | ON HOLD |
| 5        |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                    |                          |                   |                      |                 |                                    |  |  |  |  |  |  |  |         |
| 6        |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                    |                          |                   |                      |                 |                                    |  |  |  |  |  |  |  |         |
| 7        |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                    |                          |                   |                      |                 |                                    |  |  |  |  |  |  |  |         |
| 8        |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                    |                          |                   |                      |                 |                                    |  |  |  |  |  |  |  |         |
| 9        |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                    |                          |                   |                      |                 |                                    |  |  |  |  |  |  |  |         |
| 10       |                    |      |          |            |              |     |                |                   |              |                                |                  |     |          |                    |                          |                   |                      |                 |                                    |  |  |  |  |  |  |  |         |

MPA 0779

ON HOLD

| Sampler's Name:       | Relinquished By / Affiliation | Date  | Time | Accepted By / Affiliation | Date  | Time |
|-----------------------|-------------------------------|-------|------|---------------------------|-------|------|
| Julia J. Dennis       | [Signature]                   | 11/06 | 1710 | [Signature]               | 11/06 | 1710 |
| Blaine Tech Services  | [Signature]                   | 11/06 | 0800 | [Signature]               | 11/06 | 0800 |
| Shipment Date:        | [Signature]                   | 11/06 | 1135 | [Signature]               | 11/06 | 1435 |
| Shipment Method:      |                               |       |      |                           |       |      |
| Shipment Tracking No: |                               |       |      |                           |       |      |

Special Instructions:

Custody Seals In Place Yes  No  Temp Blank Yes  No  Cooler Temperature on Receipt 5.0 °F/C Trip Blank Yes  No

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS 771  
 REC. BY (PRINT) E. Fallon  
 WORKORDER: MPA 0779

DATE REC'D AT LAB: 1/11/06  
 TIME REC'D AT LAB: 1435  
 DATE LOGGED IN: 1-14-06

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) <input checked="" type="radio"/> Present / Absent<br><input checked="" type="radio"/> Intact / Broken*   |              |        |           |                       |              |    |               |              | CBP 1/11/06 SPE COC       |
| 2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*  |              |        |           |                       |              |    |               |              |                           |
| 3. Traffic Reports or Packing List: <input checked="" type="radio"/> Present / Absent   |              |        |           |                       |              |    |               |              |                           |
| 4. Airbill: <input checked="" type="radio"/> Airbill / Sticker<br><input checked="" type="radio"/> Present / 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. <input checked="" type="radio"/> Trip Blank / <input checked="" type="radio"/> Temp Blank Received?<br>(circle which, if yes) <input checked="" type="radio"/> Yes / No*                                    |              |        |           |                       |              |    |               |              |                           |
| 14. Read Temp: <u>5.0°C</u><br>Corrected Temp: <u>5.0°C</u><br>Is corrected temp 4 +/-2°C? <input checked="" type="radio"/> Yes / No**<br><small>(Acceptance range for samples requiring thermal pres.)</small> |              |        |           |                       |              |    |               |              |                           |

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

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

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|                     |   |
|---------------------|---|
| <b>ARCO # 00771</b> | <b><u>Regional Board - Case #: 01-0121</u></b>          |
| 899 RINCON AVE      | SAN FRANCISCO BAY RWQCB (REGION 2)                      |
| LIVERMORE, CA 94550 | <b><u>Local Agency (lead agency) - Case #: 3873</u></b> |
|                     | ALAMEDA COUNTY LOP - (RWS)                              |

#### **SAMPLE DETECTIONS REPORT**

|   |       |
|---|-------|
| # FIELD POINTS SAMPLED                                | 3     |
| # FIELD POINTS WITH DETECTIONS                        | 3     |
| # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL | 3     |
| 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- | Y |
|---|---|

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

**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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**Facility Name:** ARCO # 00771  
**Submittal Title:** 1Q 2006 BP/ARCO 771 EDF  
**Submittal Type:** GW Monitoring Report

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|--|---|
| <b>ARCO # 00771</b><br>899 RINCON AVE<br>LIVERMORE, CA 94550 | <b>Regional Board - Case #: 01-0121</b><br>SAN FRANCISCO BAY RWQCB (REGION 2)<br><b>Local Agency (lead agency) - Case #: 3873</b><br>ALAMEDA COUNTY LOP - (RWS) |
|--|---|

| CONF #        | TITLE                   | QUARTER        |
|---------------|-------------------------|----------------|
| 6218908727    | 1Q 2006 BP/ARCO 771 EDF | Q1 2006        |
| SUBMITTED BY  | SUBMIT DATE             | STATUS         |
| Srijesh Thapa | 2/21/2006               | PENDING REVIEW |

### SAMPLE DETECTIONS REPORT

|   |       |
|---|-------|
| # FIELD POINTS SAMPLED                                | 3     |
| # FIELD POINTS WITH DETECTIONS                        | 3     |
| # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL | 3     |
| 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% | Y |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%          | Y |
| SURROGATE SPIKES % RECOVERY BETWEEN 85-115%                         | N |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%     | Y |

### 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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