

MAY 24 2002



Customer-Focused Solutions

May 22, 2002

Project No. 41-0362

Ms. Eva Chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502

SITE: BEACON STATION NO. 3604
1619 WEST FIRST STREET
LIVERMORE, CALIFORNIA

RE: QUARTERLY PROGRESS REPORT
FIRST QUARTER 2002

Dear Ms. Chu:

TRC has prepared this report to document the results of quarterly groundwater monitoring conducted on March 18, 2002 at the subject site (Figure 1). The monitoring, conducted by Doulos Environmental (Doulos), included measurements of depth to groundwater, subjective analysis for the presence or absence of free product, groundwater purging, and collection of groundwater samples. According to Doulos, all field activities were conducted in accordance with the Ultramar Field Procedures described in Attachment A.

1.0 GROUNDWATER ELEVATIONS

Prior to purging, Doulos collected depth-to-groundwater measurements. Copies of Doulos' field data sheets are included in Attachment B. Groundwater elevation data collected since June 1993 are summarized in Table 1. Based on groundwater levels measured on March 18, 2002, groundwater flows toward the west (Figure 2) at a gradient of 0.023 foot per foot. Groundwater levels have increased an average of 1.71 feet compared to the fourth quarter 2001 monitoring event.

2.0 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater samples were collected from four monitoring wells (MW-2, MW-5, MW-6, and MW-7) on March 18, 2002. All groundwater samples were analyzed using EPA Method 8260B for concentrations of:

- total petroleum hydrocarbons as gasoline (TPH-G);
- benzene, toluene, ethyl benzene, and total xylenes (BTEX); and
- methyl tert butyl ether (MTBE).



Analytical results collected since June 1993 are summarized in Table 1. The laboratory reports and chain-of-custody forms for the current sampling event are contained in Attachment C.

Benzene was detected in all four sampled wells. MW-6 had the highest benzene concentration at 2,600 micrograms per liter ($\mu\text{g/l}$). Figure 3 shows the distribution of dissolved-phase benzene based on the current data.

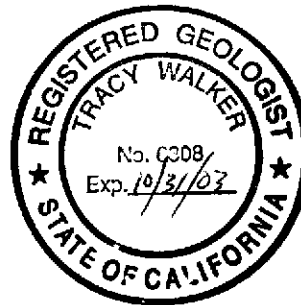
The interpretations and/or conclusions that may be contained within this report represent our professional opinions. These opinions are based on currently available information. Other than this, no warranty is implied or intended. This report has been prepared solely for the use of Ultramar Inc. Any reliance on this report by third parties will be at such parties' sole risk.

If you have any questions or comments, please contact me at (925) 688-2476.

Sincerely,



Tracy L. Walker, RG
Associate



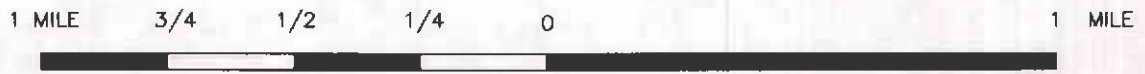
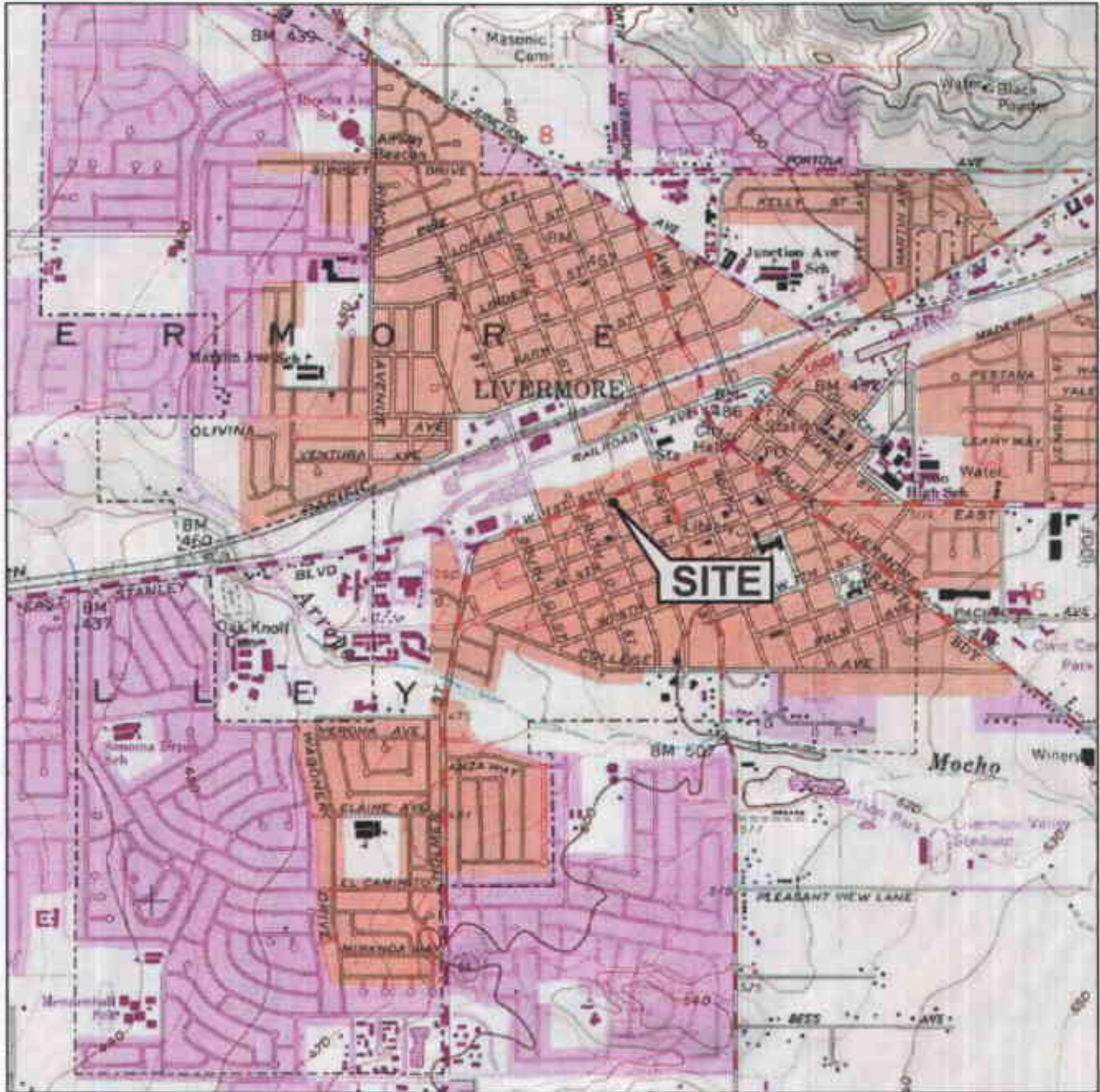
ATTACHMENTS:

- Figure 1: Vicinity Map
- Figure 2: Groundwater Elevation Contour Map – March 18, 2002
- Figure 3: Dissolved-Phase Benzene Concentrations – March 18, 2002

- Table 1: Summary of Groundwater Monitoring and Chemical Analysis

- Appendix A: Ultramar Field Procedures
- Appendix B: Doulos Environmental Field Data Sheets
- Appendix C: Official Laboratory Reports and Chain-of-Custody Records

cc: Mr. Joseph A. Aldridge, Ultramar Inc.
Mr. Cecil Fox, Regional Water Quality Control Board, San Francisco Bay Region



SCALE 1 : 24,000



SOURCE:
 United States Geological Survey
 7.5 Minute Topographic Maps:
 Livermore Quadrangle

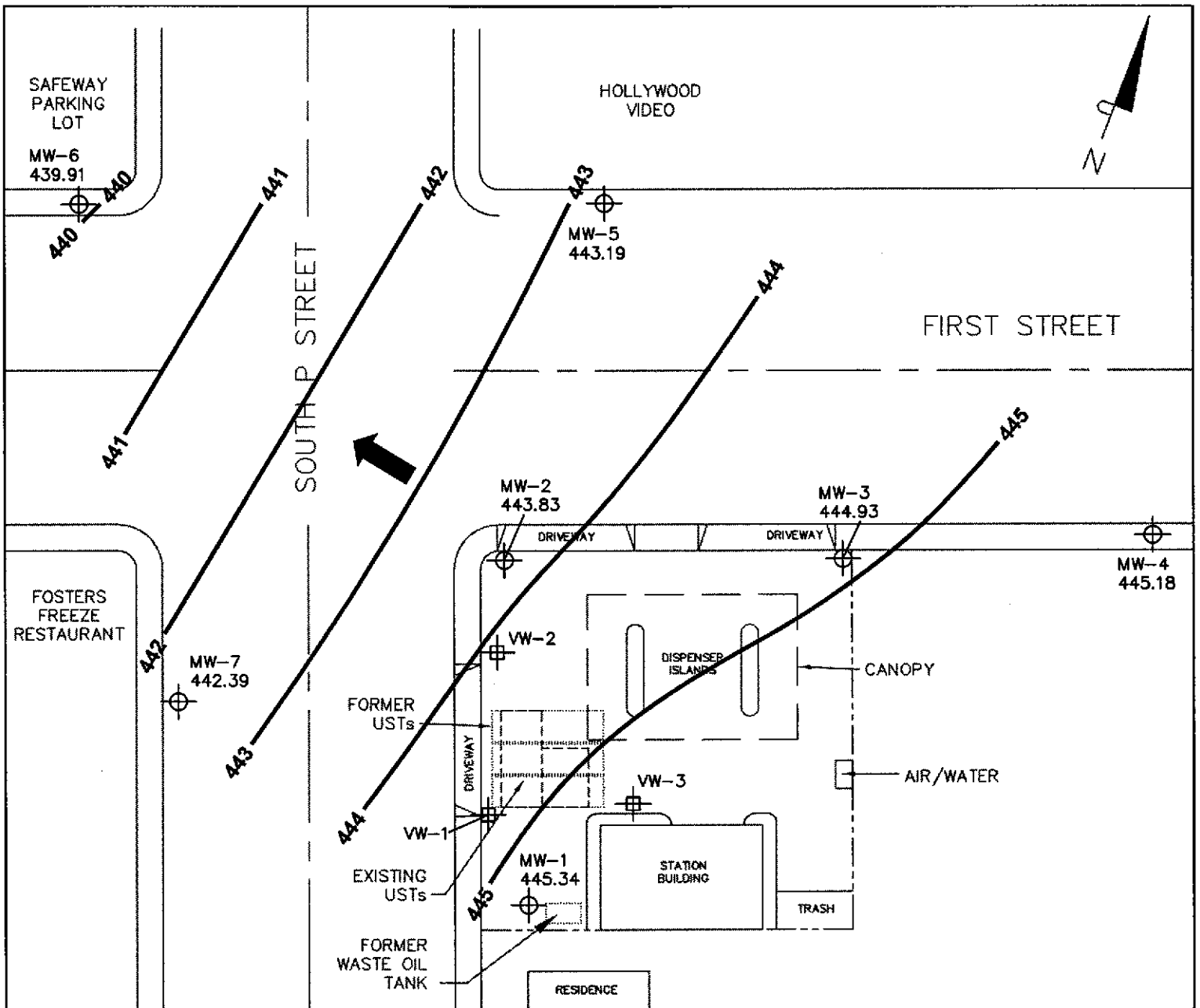


VICINITY MAP

Beacon Station 3604
 1619 West First Street
 Livermore, California



FIGURE 1



LEGEND

- Property line
- ⊕ Groundwater monitoring well
- ⊕ Vapor extraction well
- 445.34 Groundwater elevation (in feet above mean sea level)
- 445— Groundwater elevation contour line
- ↖ General direction of groundwater gradient

NOTES: Contour lines are interpretive based on fluid level measurements taken on March 18, 2002. Contour interval = 1 foot.

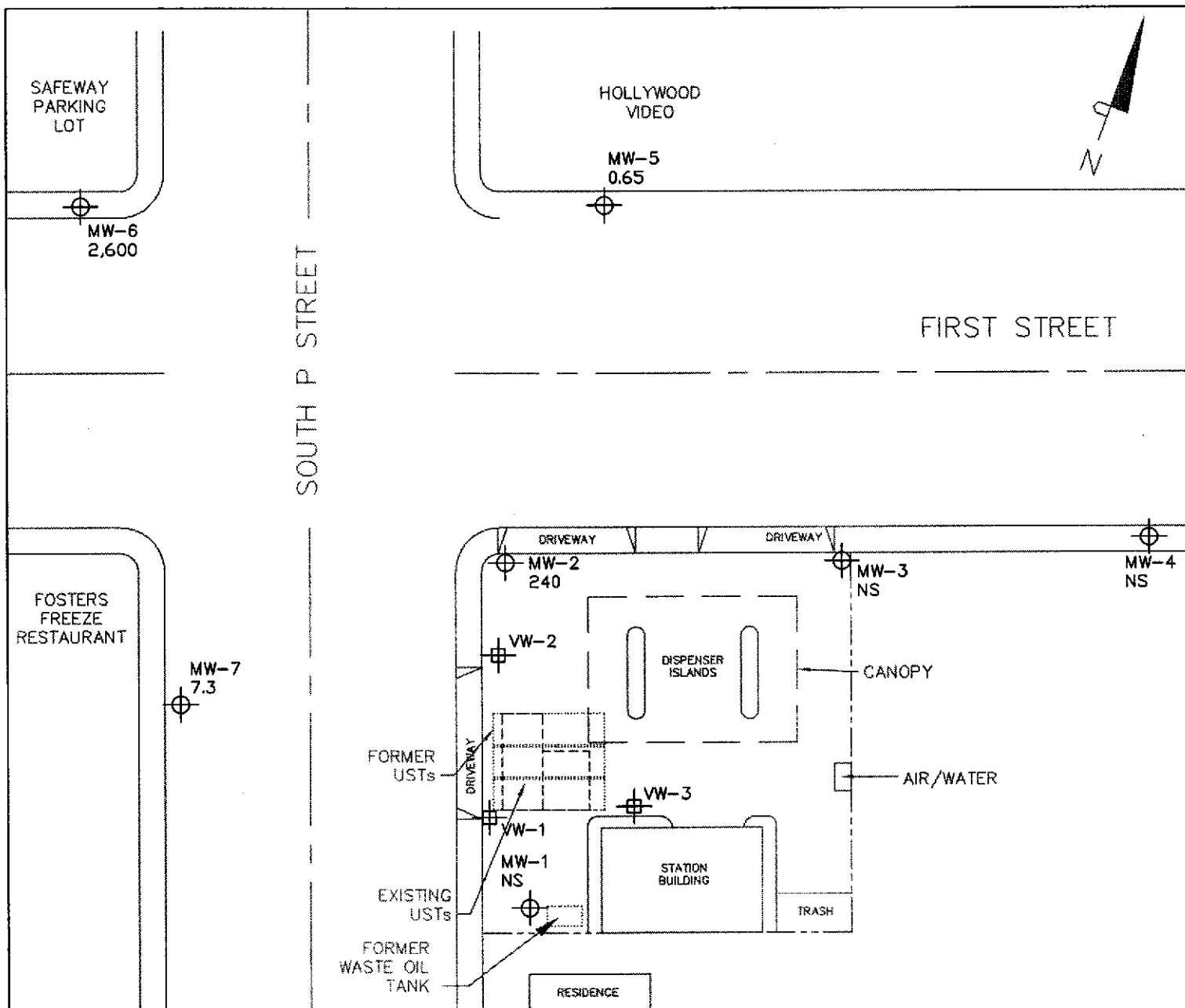


**GROUNDWATER ELEVATION
CONTOUR MAP
March 18, 2002**

Beacon Station 3604
1619 West First Street
Livermore, California

TRC | **FIGURE 2**

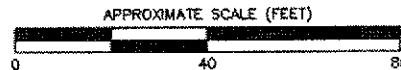
SOURCE: Doulos Environmental, Inc. site plan. Wells resurveyed by Advanced Geomatic Engineering on 1/22/02.



NOTES: Results are based on laboratory analysis of groundwater samples collected on March 18, 2002. $\mu\text{g/l}$ = micrograms per liter (parts per billion); < = not detected at or above the stated method detection limit; NS = not sampled.

LEGEND

- Property line
- ⊕ Groundwater monitoring well
- ⊕ Vapor extraction well
- <0.50 Dissolved-phase benzene concentration ($\mu\text{g/l}$)



DISSOLVED-PHASE BENZENE CONCENTRATIONS
March 18, 2002
 Beacon Station 3604
 1619 West First Street
 Livermore, California

SOURCE: Doulos Environmental, Inc. site plan.

Table 1
Summary of Groundwater Levels and Chemical Analysis

Beacon Station 3604 - 1619 West First Street, Livermore

| Well ID | Date | Reference Elevation ¹ (feet) | Depth to Water ¹ (feet) | Groundwater Elevation (feet-MSL) | TPH-G (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Total Xylenes (µg/l) | MTBE 8260 (µg/l) |
|---------|----------|--|---------------------------------------|-------------------------------------|-----------------|-------------------|-------------------|-------------------------|-------------------------|---------------------|
| MW-1 | 06/01/93 | 100.00 | 37.50 | 62.50 | 27,000 | 2,200 | 400 | <0.50 | 4,900 | — |
| MW-1 | 06/22/93 | 100.00 | 38.46 | 61.54 | 87,000 | 8,000 | 10,000 | 260 | 10,000 | — |
| MW-1 | 10/06/93 | 100.00 | 42.22 | 57.78 | 40,000 | 4,700 | 6,500 | 740 | 5,300 | — |
| MW-1 | 01/13/94 | 100.00 | 34.52 | 65.48 | 9,400 | 1,300 | 9,500 | 110 | 850 | — |
| MW-1 | 03/30/94 | 100.00 | 31.93 | 68.07 | — | — | — | — | — | — |
| MW-1 | 04/25/94 | 100.00 | 33.49 | 66.51 | 11,000 | 1,500 | 1,800 | 290 | 1,700 | — |
| MW-1 | 08/12/94 | 100.00 | 41.03 | 58.97 | 11,000 | 550 | 330 | 260 | 1,400 | — |
| MW-1 | 12/14/94 | 100.00 | 38.63 | 61.37 | 11,000 | 1,000 | 1,200 | 320 | 1,500 | — |
| MW-1 | 02/10/95 | 100.00 | 30.80 | 69.20 | 9,300 | 1,200 | 1,500 | 280 | 1,500 | — |
| MW-1 | 06/15/95 | 100.00 | 25.46 | 74.54 | 140 | 5.6 | <0.50 | <0.50 | <0.50 | — |
| MW-1 | 09/26/95 | 100.00 | 31.05 | 68.95 | 410 | 140 | <0.50 | <0.50 | 43 | — |
| MW-1 | 12/15/95 | 100.00 | 28.11 | 71.89 | 740 | 250 | <1.3 | <1.3 | 87 | — |
| MW-1 | 03/21/96 | 100.00 | 17.67 | 82.33 | <50 | 0.52 | <0.50 | <0.50 | 0.51 | — |
| MW-1 | 06/13/96 | 100.00 | 22.86 | 77.14 | 240* | <0.50 | <0.50 | <0.50 | <0.50 | — |
| MW-1 | 09/16/96 | 100.00 | 30.04 | 69.96 | 720 | 70 | <0.50 | 1.0 | 5.1 | <5.0 |
| MW-1 | 12/02/96 | 100.00 | 26.74 | 73.26 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 03/07/97 | 100.00 | 20.84 | 79.16 | 600 | 6.7 | <0.50 | 1.2 | 1.8 | <5.0 |
| MW-1 | 06/12/97 | 100.00 | 28.71 | 71.29 | 18,000 | 180 | 800 | 410 | 1,800 | <5.0 |
| MW-1 | 09/29/97 | 100.00 | 33.91 | 66.09 | 350 | 120 | 1.5 | <0.50 | 12 | <50 |
| MW-1 | 12/01/97 | 100.00 | 34.88 | 65.12 | <50 | 7.0 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 03/19/98 | 100.00 | 19.83 | 80.17 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 05/29/98 | 100.00 | 21.57 | 78.43 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 09/15/98 | 100.00 | 31.68 | 68.32 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 11/30/98 | 100.00 | 36.80 | 63.20 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 01/17/99 | 100.00 | 30.02 | 69.98 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 06/10/99 | 100.00 | 29.30 | 70.70 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 09/07/99 | 100.00 | 31.41 | 68.59 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 12/13/99 | 100.00 | 32.95 | 67.05 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 03/13/00 | 100.00 | 25.74 | 74.26 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 06/12/00 | 100.00 | 28.24 | 71.76 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-1 | 11/10/00 | 100.00 | 30.56 | 69.44 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-1 | 12/31/00 | 100.00 | 31.71 | 68.29 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-1 | 03/27/01 | 100.00 | 30.43 | 69.57 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-1 | 06/30/01 | 100.00 | 36.61 | 63.39 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |

Table 1
Summary of Groundwater Levels and Chemical Analysis

Beacon Station 3604 - 1619 West First Street, Livermore

| Well ID | Date | Reference Elevation ¹ (feet) | Depth to Water ¹ (feet) | Groundwater Elevation (feet-MSL) | TPH-G (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Total Xylenes (µg/l) | MTBE 8260 (µg/l) |
|---------|----------|--|--|-------------------------------------|-----------------|-------------------|-------------------|-------------------------|-------------------------|------------------------|
| MW-1 | 09/26/01 | 100.00 | 45.10 | 54.90 | 90 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-1 | 12/18/01 | 100.00 | 39.39 | 60.61 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-1 | 01/22/02 | 483.58 | Well resurveyed to new reference point | | | | | | | |
| MW-1 | 03/18/02 | 483.58 | 38.24 | 445.34 | — | — | — | — | — | — |
| MW-2 | 06/01/93 | 98.68 | 38.02 | 60.66 | 170,000 | 20,000 | 21,000 | 3,300 | 18,000 | — |
| MW-2 | 06/22/93 | 98.68 | 39.07 | 59.61 | 160,000 | 19,000 | 22,000 | 3,500 | 18,000 | — |
| MW-2 | 10/06/93 | 98.68 | 43.72 | 54.96 | 110,000 | 17,000 | 17,000 | 3,000 | 15,000 | — |
| MW-2 | 01/13/94 | 98.68 | 35.85 | 62.83 | 93,000 | 20,000 | 19,000 | 2,300 | 14,000 | — |
| MW-2 | 03/30/94 | 98.68 | 32.82 | 65.86 | — | — | — | — | — | — |
| MW-2 | 04/25/94 | 98.68 | 34.76 | 63.92 | 41,000 | 9,600 | 7,300 | 840 | 7,800 | — |
| MW-2 | 08/12/94 | 98.68 | 44.33 | 54.35 | 59,000 | 11,000 | 11,000 | 2,300 | 11,000 | — |
| MW-2 | 12/14/94 | 98.68 | 40.00 | 58.68 | 63,000 | 13,000 | 13,000 | 2,200 | 12,000 | — |
| MW-2 | 02/10/95 | 98.68 | 32.16 | 66.52 | 63,000 | 12,000 | 12,000 | 2,200 | 11,000 | — |
| MW-2 | 06/15/95 | 98.68 | 25.93 | 72.75 | 61,000 | 11,000 | 12,000 | 1,900 | 11,000 | — |
| MW-2 | 09/26/95 | 98.68 | 32.42 | 66.26 | 61,000 | 9,400 | 11,000 | 2,300 | 12,000 | — |
| MW-2 | 12/15/95 | 98.68 | 29.41 | 69.27 | 48,000 | 8,000 | 8,300 | 2,200 | 12,000 | — |
| MW-2 | 03/21/96 | 98.68 | 17.47 | 81.21 | 48,000 | 8,000 | 7,700 | 2,400 | 12,000 | — |
| MW-2 | 06/13/96 | 98.68 | 23.69 | 74.99 | 33,000 | 7,300 | 8,800 | 1,900 | 12,000 | <250 |
| MW-2 | 09/16/96 | 98.68 | 31.24 | 67.44 | 8,600 | 510 | 640 | 180 | 1,300 | <250 |
| MW-2 | 12/02/96 | 98.68 | 26.90 | 71.78 | 29,000 | 4,400 | 4,000 | 1,300 | 6,100 | <130 |
| MW-2 | 03/07/97 | 98.68 | 21.33 | 77.35 | 13,000 | 1,800 | 1,100 | 270 | 2,000 | <250 |
| MW-2 | 06/12/97 | 98.68 | 29.94 | 68.74 | 68,000 | 7,800 | 6,600 | 2,300 | 11,000 | <500 |
| MW-2 | 09/29/97 | 98.68 | 34.22 | 64.46 | 15,000 | 1,500 | 97 | 740 | 1,800 | <250 |
| MW-2 | 12/01/97 | 98.68 | 35.94 | 62.74 | 13,000 | 900 | 37 | 860 | 2,400 | <250 |
| MW-2 | 03/19/98 | 98.68 | 20.34 | 78.34 | 42,000 | 5,000 | 3,600 | 2,000 | 8,300 | <250 |
| MW-2 | 05/29/98 | 98.68 | 22.63 | 76.05 | 68,000 | 5,600 | 4,700 | 2,400 | 11,000 | <250 |
| MW-2 | 09/15/98 | 98.68 | 32.30 | 66.38 | 36,000 | 3,900 | 1,200 | 1,400 | 7,800 | <250 |
| MW-2 | 11/30/98 | 98.68 | 36.90 | 61.78 | 16,000 | 2,200 | 59 | 1,200 | 1,500 | <250 |
| MW-2 | 01/17/99 | 98.68 | 30.17 | 68.51 | 30,000 | 4,000 | 2,200 | 2,100 | 9,500 | <250 |
| MW-2 | 06/10/99 | 98.68 | 29.98 | 68.70 | 70,000 | 6,300 | 1,800 | 3,600 | 14,000 | <500 |
| MW-2 | 09/07/99 | 98.68 | 31.85 | 66.83 | 42,000 | 3,800 | 840 | 1,900 | 8,000 | 150 |
| MW-2 | 12/13/99 | 98.68 | 33.72 | 64.96 | 14,000 | 1,400 | 87 | 690 | 110 | 34 |
| MW-2 | 03/13/00 | 98.68 | 26.54 | 72.14 | 38,000 | 2,400 | 2,300 | 1,600 | 6,400 | 2,400 |

Table 1
Summary of Groundwater Levels and Chemical Analysis

Beacon Station 3604 - 1619 West First Street, Livermore

| Well ID | Date | Reference Elevation ¹ (feet) | Depth to Water ¹ (feet) | Groundwater | | | Ethyl-benzene (µg/l) | Total Xylenes (µg/l) | MTBE 8260 (µg/l) | | |
|---------|----------|--|--|-------------------------|-----------------|-------------------|-------------------------|-------------------------|------------------------|-------------------|--|
| | | | | Elevation (feet-MSL) | TPH-G (µg/l) | Benzene (µg/l) | | | | Toluene (µg/l) | |
| MW-2 | 06/12/00 | 98.68 | 28.44 | 70.24 | 56,000 | 4,000 | 950 | 2,300 | 7,200 | <50 | |
| MW-2 | 11/10/00 | 98.68 | 31.31 | 67.37 | 35,000 | 5,100 | 850 | 1,500 | 3,200 | 230 | |
| MW-2 | 12/31/00 | 98.68 | 32.68 | 66.00 | 21,000 | 3,200 | 420 | 1,300 | 1,200 | 440 | |
| MW-2 | 03/27/01 | 98.68 | 30.81 | 67.87 | 3,500 | 420 | 64 | 16 | 280 | 120 | |
| MW-2 | 06/30/01 | 98.68 | 37.58 | 61.10 | 1,200 | 88 | 4.5 | 65 | 37 | 29 | |
| MW-2 | 09/26/01 | 98.68 | 44.97 | 53.71 | 53,000 | 8,500 | 1,500 | 2,400 | 4,600 | 270 | |
| MW-2 | 12/18/01 | 98.68 | 40.67 | 58.01 | 26,000 | 5,400 | 900 | 1,500 | 2,200 | 430 | |
| MW-2 | 01/22/02 | 482.77 | Well resurveyed to new reference point | | | | | | | | |
| MW-2 | 03/18/02 | 482.77 | 38.94 | 443.83 | 4,200 | 240 | 7.3 | 200 | 53 | 89 | |
| MW-3 | 06/01/93 | 97.08 | 36.18 | 60.90 | 270 | 4.6 | <0.50 | <0.50 | 1.9 | — | |
| MW-3 | 06/22/93 | 97.08 | 37.11 | 59.97 | 160 | 8.2 | <0.50 | <0.50 | 0.72 | — | |
| MW-3 | 10/06/93 | 97.08 | 41.15 | 55.93 | 740 | 57 | 110 | 24 | 120 | — | |
| MW-3 | 01/13/94 | 97.08 | 33.95 | 63.13 | 83 | 2.6 | 0.67 | 0.78 | 4.2 | — | |
| MW-3 | 03/30/94 | 97.08 | 30.97 | 66.11 | — | — | — | — | — | — | |
| MW-3 | 04/25/94 | 97.08 | 32.46 | 64.62 | 60 | 0.75 | 3.2 | 0.50 | 3.6 | — | |
| MW-3 | 08/12/94 | 97.08 | 41.72 | 55.36 | 310 | 7.3 | 14 | 2.6 | 13 | — | |
| MW-3 | 12/14/94 | 97.08 | 37.62 | 59.46 | 75 | <0.50 | <0.50 | <0.50 | <0.50 | — | |
| MW-3 | 02/10/95 | 97.08 | 29.96 | 67.12 | 96 | 1.4 | <0.50 | <0.50 | 1.8 | — | |
| MW-3 | 06/15/95 | 97.08 | 23.66 | 73.42 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | — | |
| MW-3 | 09/26/95 | 97.08 | 29.62 | 67.46 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | — | |
| MW-3 | 12/15/95 | 97.08 | 27.10 | 69.98 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | — | |
| MW-3 | 03/21/96 | 97.08 | 15.85 | 81.23 | — | — | — | — | — | — | |
| MW-3 | 06/13/96 | 97.08 | 21.31 | 75.77 | — | — | — | — | — | — | |
| MW-3 | 09/16/96 | 97.08 | 28.62 | 68.46 | — | — | — | — | — | — | |
| MW-3 | 12/02/96 | 97.08 | 25.55 | 71.53 | — | — | — | — | — | — | |
| MW-3 | 03/07/97 | 97.08 | 19.77 | 77.31 | — | — | — | — | — | — | |
| MW-3 | 06/12/97 | 97.08 | 27.67 | 69.41 | — | — | — | — | — | — | |
| MW-3 | 09/29/97 | 97.08 | 29.60 | 67.48 | — | — | — | — | — | — | |
| MW-3 | 12/01/97 | 97.08 | 33.37 | 63.71 | — | — | — | — | — | — | |
| MW-3 | 03/19/98 | 97.08 | 18.76 | 78.32 | — | — | — | — | — | — | |
| MW-3 | 05/29/98 | 97.08 | 20.64 | 76.44 | — | — | — | — | — | — | |
| MW-3 | 09/15/98 | 97.08 | 30.70 | 66.38 | — | — | — | — | — | — | |
| MW-3 | 11/30/98 | 97.08 | 34.96 | 62.12 | — | — | — | — | — | — | |

Table 1
Summary of Groundwater Levels and Chemical Analysis

Beacon Station 3604 - 1619 West First Street, Livermore

| Well ID | Date | Reference Elevation ¹ (feet) | Depth to Water ¹ (feet) | Groundwater Elevation (feet-MSL) | TPH-G (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene (µg/l) | Total Xylenes (µg/l) | MTBE 8260 (µg/l) |
|---------|----------|--|--|-------------------------------------|-----------------|-------------------|-------------------|-----------------------------|----------------------------|------------------------|
| MW-3 | 01/17/99 | 97.08 | 28.81 | 68.27 | — | — | — | — | — | — |
| MW-3 | 06/10/99 | 97.08 | 28.10 | 68.98 | — | — | — | — | — | — |
| MW-3 | 09/07/99 | 97.08 | 30.38 | 66.70 | — | — | — | — | — | — |
| MW-3 | 12/13/99 | 97.08 | 31.46 | 65.62 | — | — | — | — | — | — |
| MW-3 | 03/13/00 | 97.08 | 24.28 | 72.80 | — | — | — | — | — | — |
| MW-3 | 06/12/00 | 97.08 | 26.80 | 70.28 | — | — | — | — | — | — |
| MW-3 | 11/10/00 | 97.08 | 29.47 | 67.61 | — | — | — | — | — | — |
| MW-3 | 12/31/00 | 97.08 | 31.38 | 65.70 | — | — | — | — | — | — |
| MW-3 | 03/27/01 | 97.08 | 29.94 | 67.14 | — | — | — | — | — | — |
| MW-3 | 06/30/01 | 97.08 | 37.54 | 59.54 | — | — | — | — | — | — |
| MW-3 | 09/26/01 | 97.08 | 45.17 | 51.91 | — | — | — | — | — | — |
| MW-3 | 12/18/01 | 97.08 | 39.41 | 57.67 | — | — | — | — | — | — |
| MW-3 | 01/22/02 | 482.66 | Well resurveyed to new reference point | | — | — | — | — | — | — |
| MW-3 | 03/18/02 | 482.66 | 37.73 | 444.93 | — | — | — | — | — | — |
| MW-4 | 03/30/94 | 99.35 | 31.56 | 67.79 | 120 | 4.2 | 15 | 2.5 | 26 | — |
| MW-4 | 04/25/94 | 99.35 | 32.73 | 66.62 | 65 | <0.50 | 1.8 | <0.50 | 2.1 | — |
| MW-4 | 08/12/94 | 99.35 | 41.61 | 57.74 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | — |
| MW-4 | 12/14/94 | 99.35 | 38.11 | 61.24 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | — |
| MW-4 | 02/10/95 | 99.35 | 30.50 | 68.85 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | — |
| MW-4 | 06/15/95 | 99.35 | 23.63 | 75.72 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | — |
| MW-4 | 09/26/95 | 99.35 | 29.70 | 69.65 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | — |
| MW-4 | 12/15/95 | 99.35 | 27.56 | 71.79 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | — |
| MW-4 | 03/21/96 | 99.35 | 15.63 | 83.72 | — | — | — | — | — | — |
| MW-4 | 06/13/96 | 99.35 | 21.07 | 78.28 | — | — | — | — | — | — |
| MW-4 | 09/16/96 | 99.35 | 28.99 | 70.36 | — | — | — | — | — | — |
| MW-4 | 12/02/96 | 99.35 | 26.04 | 73.31 | — | — | — | — | — | — |
| MW-4 | 03/07/97 | 99.35 | 19.69 | 79.66 | — | — | — | — | — | — |
| MW-4 | 06/12/97 | 99.35 | 28.04 | 71.31 | — | — | — | — | — | — |
| MW-4 | 09/29/97 | 99.35 | 29.91 | 69.44 | — | — | — | — | — | — |
| MW-4 | 12/01/97 | 99.35 | 33.88 | 65.47 | — | — | — | — | — | — |
| MW-4 | 03/19/98 | 99.35 | 18.67 | 80.68 | — | — | — | — | — | — |
| MW-4 | 05/29/98 | 99.35 | 20.16 | 79.19 | — | — | — | — | — | — |
| MW-4 | 09/15/98 | 99.35 | 30.46 | 68.89 | — | — | — | — | — | — |

Table 1
Summary of Groundwater Levels and Chemical Analysis

Beacon Station 3604 - 1619 West First Street, Livermore

| Well ID | Date | Reference Elevation ¹ (feet) | Depth to Water ¹ (feet) | Groundwater Elevation (feet-MSL) | TPH-G (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Total Xylenes (µg/l) | MTBE 8260 (µg/l) |
|---------|----------|---|--|----------------------------------|--------------|----------------|----------------|----------------------|----------------------|------------------|
| MW-4 | 11/30/98 | 99.35 | 34.50 | 64.85 | — | — | — | — | — | — |
| MW-4 | 01/17/99 | 99.35 | 28.30 | 71.05 | — | — | — | — | — | — |
| MW-4 | 06/10/99 | 99.35 | 27.60 | 71.75 | — | — | — | — | — | — |
| MW-4 | 09/07/99 | 99.35 | 30.79 | 68.56 | — | — | — | — | — | — |
| MW-4 | 12/13/99 | 99.35 | 31.60 | 67.75 | — | — | — | — | — | — |
| MW-4 | 03/13/00 | 99.35 | 24.35 | 75.00 | — | — | — | — | — | — |
| MW-4 | 06/12/00 | 99.35 | 26.91 | 72.44 | — | — | — | — | — | — |
| MW-4 | 11/10/00 | 99.35 | 29.71 | 69.64 | — | — | — | — | — | — |
| MW-4 | 12/31/00 | 99.35 | 31.79 | 67.56 | — | — | — | — | — | — |
| MW-4 | 03/27/01 | 99.35 | 29.98 | 69.37 | — | — | — | — | — | — |
| MW-4 | 06/30/01 | 99.35 | 36.88 | 62.47 | — | — | — | — | — | — |
| MW-4 | 09/26/01 | 99.35 | 43.87 | 55.48 | — | — | — | — | — | — |
| MW-4 | 12/18/01 | 99.35 | 39.30 | 60.05 | — | — | — | — | — | — |
| MW-4 | 01/22/02 | 482.93 | Well resurveyed to new reference point | | — | — | — | — | — | — |
| MW-4 | 03/18/02 | 482.93 | 37.75 | 445.18 | — | — | — | — | — | — |
| MW-5 | 03/30/94 | 98.37 | 32.07 | 66.30 | 7,500 | 1,300 | 20 | <13 | 160 | — |
| MW-5 | 04/25/94 | 98.37 | 33.65 | 64.72 | 6,500 | 1,100 | 41 | 130 | 740 | — |
| MW-5 | 08/12/94 | 98.37 | 42.73 | 55.64 | 4,000 | 420 | 2.9 | 41 | 98 | — |
| MW-5 | 12/14/94 | 98.37 | 38.89 | 59.48 | 4,800 | 660 | <2.5 | 33 | 13 | — |
| MW-5 | 02/10/95 | 98.37 | 31.44 | 66.93 | 5,200 | 490 | <13 | 23 | 19 | — |
| MW-5 | 06/15/95 | 98.37 | 24.99 | 73.38 | 460 | <0.50 | <0.50 | <0.50 | <0.50 | — |
| MW-5 | 09/26/95 | 98.37 | 30.20 | 68.17 | 1,400 | 61 | <0.50 | 3.1 | <0.50 | — |
| MW-5 | 12/15/95 | 98.37 | 28.56 | 69.81 | 2,100 | 77 | 1.5 | 10 | 1.5 | — |
| MW-5 | 03/21/96 | 98.37 | 16.82 | 81.55 | 930 | 35 | 2.0 | 2.0 | 18 | — |
| MW-5 | 06/13/96 | 98.37 | 22.61 | 75.76 | 610 | 38 | 0.72 | 1.9 | 2.0 | <5.0 |
| MW-5 | 09/16/96 | 98.37 | 29.78 | 68.59 | 380 | 29 | <0.50 | 0.95 | <0.50 | <5.0 |
| MW-5 | 12/02/96 | 98.37 | 26.51 | 71.86 | 200 | 1.1 | 0.64 | <0.50 | <0.50 | <5.0 |
| MW-5 | 03/07/97 | 98.37 | 21.91 | 76.46 | 520 | 74 | <0.50 | 0.58 | 1.5 | <5.0 |
| MW-5 | 06/12/97 | 98.37 | — | — | 140 | 5.3 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-5 | 09/29/97 | 98.37 | 31.74 | 66.63 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-5 | 12/01/97 | 98.37 | 34.05 | 64.32 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-5 | 03/19/98 | 98.37 | 20.93 | 77.44 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-5 | 05/29/98 | 98.37 | 21.30 | 77.07 | 540 | 4.1 | <0.50 | <0.50 | 0.52 | <5.0 |

Table 1
Summary of Groundwater Levels and Chemical Analysis

Beacon Station 3604 - 1619 West First Street, Livermore

| Well ID | Date | Reference Elevation ¹ (feet) | Depth to Water ¹ (feet) | Groundwater Elevation (feet-MSL) | TPH-G (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Total Xylenes (µg/l) | MTBE 8260 (µg/l) |
|---------|----------|---|--|----------------------------------|--------------|----------------|----------------|----------------------|----------------------|------------------|
| MW-5 | 09/15/98 | 98.37 | 31.32 | 67.05 | 67 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-5 | 11/30/98 | 98.37 | 35.44 | 62.93 | 430 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-5 | 01/17/99 | 98.37 | 29.59 | 68.78 | 500 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-5 | 06/10/99 | 98.37 | 28.05 | 70.32 | 66 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-5 | 09/07/99 | 98.37 | 31.11 | 67.26 | 820 | 46 | 1.7 | 10 | 21 | <5.0 |
| MW-5 | 12/13/99 | 98.37 | 32.66 | 65.71 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-5 | 03/13/00 | 98.37 | 25.87 | 72.50 | 270 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-5 | 06/12/00 | 98.37 | 28.15 | 70.22 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| MW-5 | 11/10/00 | 98.37 | 30.05 | 68.32 | 2,200 | 42 | 1.1 | 25 | 30 | 8.6 |
| MW-5 | 12/31/00 | 98.37 | 31.81 | 66.56 | 1,300 | 21 | <0.50 | 4.3 | 2.6 | 10 |
| MW-5 | 03/27/01 | 98.37 | 30.57 | 67.80 | 1,200 | 11 | <0.50 | 2.6 | <0.50 | 21 |
| MW-5 | 06/30/01 | 98.37 | 37.24 | 61.13 | 1,400 | 4.8 | <0.50 | 1.5 | 0.56 | 14 |
| MW-5 | 09/26/01 | 98.37 | 44.53 | 53.84 | 660 | <0.50 | <0.50 | <0.50 | <0.50 | 3.0 |
| MW-5 | 12/18/01 | 98.37 | 40.65 | 57.72 | 240 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-5 | 01/22/02 | 481.94 | Well resurveyed to new reference point | | | | | | | |
| MW-5 | 03/18/02 | 481.94 | 38.75 | 443.19 | 890 | 0.65 | <0.50 | <0.50 | <0.50 | 3.1 |
| MW-6 | 03/30/94 | 97.62 | 33.38 | 64.24 | 63,000 | 21,000 | 8,600 | 1,700 | 12,000 | — |
| MW-6 | 04/25/94 | 97.62 | 35.49 | 62.13 | 77,000 | 22,000 | 12,000 | 2,300 | 16,000 | — |
| MW-6 | 08/12/94 | 97.62 | 45.14 | 52.48 | 65,000 | 12,000 | 8,100 | 2,200 | 16,000 | — |
| MW-6 | 12/14/94 | 97.62 | 40.99 | 56.63 | 65,000 | 18,000 | 9,500 | 2,200 | 14,000 | — |
| MW-6 | 02/10/95 | 97.62 | 33.34 | 64.28 | 63,000 | 21,000 | 8,400 | 2,000 | 14,000 | — |
| MW-6 | 06/15/95 | 97.62 | 26.88 | 70.74 | 75,000 | 20,000 | 11,000 | 2,100 | 15,000 | — |
| MW-6 | 09/26/95 | 97.62 | 33.55 | 64.07 | 62,000 | 15,000 | 9,600 | 1,700 | 12,000 | — |
| MW-6 | 12/15/95 | 97.62 | 30.32 | 67.30 | 61,000 | 15,000 | 9,000 | 2,300 | 15,000 | — |
| MW-6 | 03/21/96 | 97.62 | 18.89 | 78.73 | 65,000 | 18,000 | 9,800 | 2,400 | 16,000 | — |
| MW-6 | 06/13/96 | 97.62 | 24.62 | 73.00 | 29,000 | 8,600 | 3,300 | 2,200 | 12,000 | <250 |
| MW-6 | 09/16/96 | 97.62 | 32.64 | 64.98 | 42,000 | 6,400 | 1,800 | 2,100 | 11,000 | <250 |
| MW-6 | 12/02/96 | 97.62 | 27.42 | 70.20 | 28,000 | 3,000 | 1,100 | 970 | 8,300 | <500 |
| MW-6 | 03/07/97 | 97.62 | 22.13 | 75.49 | 12,000 | 2,000 | 190 | 520 | 2,300 | <250 |
| MW-6 | 06/12/97 | 97.62 | 31.02 | 66.60 | 37,000 | 3,900 | 470 | 1,600 | 6,200 | <100 |
| MW-6 | 09/29/97 | 97.62 | 35.77 | 61.85 | 34,000 | 3,500 | 370 | 1,600 | 5,200 | <100 |
| MW-6 | 12/01/97 | 97.62 | 37.14 | 60.48 | 20,000 | 2,100 | <10 | 1,200 | 2,200 | <100 |
| MW-6 | 03/19/98 | 97.62 | 21.10 | 76.52 | 24,000 | 2,900 | 460 | 1,100 | 3,400 | <100 |

Table 1
Summary of Groundwater Levels and Chemical Analysis

Beacon Station 3604 - 1619 West First Street, Livermore

| Well ID | Date | Reference | Depth to | Groundwater | TPH-G (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene (µg/l) | Total Xylenes (µg/l) | MTBE 8260 (µg/l) |
|---------|----------|----------------------------------|--|-------------------------|-----------------|-------------------|-------------------|-----------------------------|----------------------------|------------------------|
| | | Elevation ¹ (feet) | Water ¹ (feet) | Elevation (feet-MSL) | | | | | | |
| MW-6 | 05/29/98 | 97.62 | 23.26 | 74.36 | 38,000 | 3,500 | 700 | 1,800 | 5,200 | <100 |
| MW-6 | 09/15/98 | 97.62 | 33.50 | 64.12 | 22,000 | 1,900 | 110 | 1,400 | 3,000 | <100 |
| MW-6 | 11/30/98 | 97.62 | 38.73 | 58.89 | 9,900 | 770 | 16 | 820 | 710 | <100 |
| MW-6 | 01/17/99 | 97.62 | 32.05 | 65.57 | 14,000 | 2,200 | 160 | 1,700 | 3,600 | <100 |
| MW-6 | 06/10/99 | 97.62 | 31.44 | 66.18 | 22,000 | 1,600 | 160 | 1,400 | 2,900 | 5.5 |
| MW-6 | 09/07/99 | 97.62 | 33.94 | 63.68 | 17,000 | 1,400 | 33 | 1,300 | 1,800 | <50 |
| MW-6 | 12/13/99 | 97.62 | 35.84 | 61.78 | 16,000 | 790 | 9.2 | 840 | 780 | <25 |
| MW-6 | 03/13/00 | 97.62 | 28.45 | 69.17 | 16,000 | 790 | 85 | 780 | 1,600 | <25 |
| MW-6 | 06/12/00 | 97.62 | 30.52 | 67.10 | 24,000 | 1,100 | 150 | 1,300 | 2,300 | 5,600 |
| MW-6 | 11/10/00 | 97.62 | 32.99 | 64.63 | 13,000 | 440 | 6.6 | 760 | 350 | 1,000 |
| MW-6 | 12/31/00 | 97.62 | 34.95 | 62.67 | 12,000 | 680 | 7.6 | 820 | 190 | 1,400 |
| MW-6 | 03/27/01 | 97.62 | 32.72 | 64.90 | 14,000 | 330 | 17 | 940 | 670 | 380 |
| MW-6 | 06/30/01 | 97.62 | 39.86 | 57.76 | 750 | 45 | 0.93 | 47 | 14 | 54 |
| MW-6 | 09/26/01 | 97.62 | Dry | — | — | — | — | — | — | — |
| MW-6 | 12/18/01 | 97.62 | 43.36 | 54.26 | 43,000 | 3,800 | 350 | 1,900 | 3,000 | 900 |
| MW-6 | 01/22/02 | 481.20 | Well resurveyed to new reference point | | | | | | | |
| MW-6 | 03/18/02 | 481.20 | 41.29 | 439.91 | 33,000 | 2,600 | 120 | 1,800 | 2,800 | 740 |
| MW-7 | 03/30/94 | 98.03 | 31.98 | 66.05 | 43,000 | 7,200 | 2,400 | 1,600 | 11,000 | — |
| MW-7 | 04/25/94 | 98.03 | 33.56 | 64.47 | 30,000 | 3,900 | 1,000 | 940 | 6,900 | — |
| MW-7 | 08/12/94 | 98.03 | 43.35 | 54.68 | 30,000 | 3,800 | 1,400 | 1,300 | 7,500 | — |
| MW-7 | 12/14/94 | 98.03 | 39.34 | 58.69 | 31,000 | 3,600 | 1,200 | 900 | 6,400 | — |
| MW-7 | 02/10/95 | 98.03 | 32.11 | 65.92 | 27,000 | 4,000 | 900 | 890 | 5,100 | — |
| MW-7 | 06/15/95 | 98.03 | 25.51 | 72.52 | 17,000 | 920 | 680 | 740 | 4,100 | — |
| MW-7 | 09/26/95 | 98.03 | 31.43 | 66.60 | 7,000 | 200 | 150 | 170 | 810 | — |
| MW-7 | 12/15/95 | 98.03 | 28.97 | 69.06 | 11,000 | 350 | 170 | 540 | 1,900 | — |
| MW-7 | 03/21/96 | 98.03 | 17.36 | 80.67 | 12,000 | 320 | 100 | 730 | 2,500 | — |
| MW-7 | 06/13/96 | 98.03 | 23.47 | 74.56 | 5,900 | 98 | 19 | 370 | 620 | <50 |
| MW-7 | 09/16/96 | 98.03 | 31.35 | 66.68 | 7,800 | 140 | 43 | 440 | 590 | <25 |
| MW-7 | 12/02/96 | 98.03 | 27.11 | 70.92 | 6,300 | 87 | 29 | 290 | 430 | <50 |
| MW-7 | 03/07/97 | 98.03 | 21.33 | 76.70 | 4,500 | 35 | 19 | 360 | 470 | <25 |
| MW-7 | 06/12/97 | 98.03 | 29.90 | 68.13 | 3,900 | 29 | 5.2 | 170 | 48 | <5.0 |
| MW-7 | 09/29/97 | 98.03 | 34.37 | 63.66 | 6,100 | 56 | 9 | 340 | 190 | <25 |
| MW-7 | 12/01/97 | 98.03 | 36.46 | 61.57 | 6,500 | 24 | <2.5 | 400 | 250 | <25 |

Table 1
Summary of Groundwater Levels and Chemical Analysis

Beacon Station 3604 - 1619 West First Street, Livermore

| Well ID | Date | Reference Elevation ¹ (feet) | Depth to Water ¹ (feet) | Groundwater Elevation (feet-MSL) | TPH-G (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Total Xylenes (µg/l) | MTBE 8260 (µg/l) |
|---------|----------|---|--|----------------------------------|--------------|----------------|----------------|----------------------|----------------------|------------------|
| MW-7 | 03/19/98 | 98.03 | 20.33 | 77.70 | 2,000 | 20 | <2.5 | 73 | 79 | <25 |
| MW-7 | 05/29/98 | 98.03 | 22.30 | 75.73 | 5,700 | 22 | 7.3 | 290 | 350 | <25 |
| MW-7 | 09/15/98 | 98.03 | 32.54 | 65.49 | 1,700 | 15 | <2.5 | 44 | 5.1 | <25 |
| MW-7 | 11/30/98 | 98.03 | 37.96 | 60.07 | 4,800 | 42 | 12 | 270 | 640 | <25 |
| MW-7 | 01/17/99 | 98.03 | 31.04 | 66.99 | 3,400 | 33 | <5.0 | 200 | 190 | <50 |
| MW-7 | 06/10/99 | 98.03 | 29.89 | 68.14 | 1,700 | 7.8 | 1.5 | 23 | 4.1 | <5.0 |
| MW-7 | 09/07/99 | 98.03 | 32.38 | 65.65 | 1,900 | 9.7 | 2.1 | 70 | 2.9 | <5.0 |
| MW-7 | 12/13/99 | 98.03 | 33.98 | 64.05 | 1,900 | 8.0 | 1.1 | 10 | 1.1 | <5.0 |
| MW-7 | 03/13/00 | 98.03 | 27.09 | 70.94 | 1,500 | 7.5 | <0.50 | 6.7 | 2.9 | <5.0 |
| MW-7 | 06/12/00 | 98.03 | 28.76 | 69.27 | 1,200 | 5.4 | <0.50 | 5.2 | 1.0 | <5.0 |
| MW-7 | 11/10/00 | 98.03 | 31.54 | 66.49 | 1,000 | 3.9 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-7 | 12/31/00 | 98.03 | 32.76 | 65.27 | 620 | 1.8 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-7 | 03/27/01 | 98.03 | 30.97 | 67.06 | 1,200 | 4.8 | <0.50 | 6.7 | 0.94 | <0.50 |
| MW-7 | 06/30/01 | 98.03 | 37.50 | 60.53 | 2,800 | 10 | 1.7 | 75 | 170 | <0.50 |
| MW-7 | 09/26/01 | 98.03 | 45.11 | 52.92 | 1,900 | 16 | 0.89 | 2.3 | 25 | <0.50 |
| MW-7 | 12/18/01 | 98.03 | 41.13 | 56.90 | 3,000 | 13 | 0.88 | 3.4 | 3.4 | <0.50 |
| MW-7 | 01/22/02 | 481.61 | Well resurveyed to new reference point | | | | | | | |
| MW-7 | 03/18/02 | 481.61 | 39.22 | 442.39 | 3,100 | 7.3 | 1.5 | 38 | 110 | <0.50 |
| MW-A | 01/17/99 | — | 30.13 | — | 5,800 | 1,700 | 85 | 65 | 320 | <5.0 |
| MW-A | 06/10/99 | Well abandoned | | | | | | | | |
| MW-B | 01/17/99 | — | 30.29 | — | 4,400 | 240 | 30 | 21 | 39 | <5.0 |
| MW-B | 06/10/99 | Well abandoned | | | | | | | | |
| MW-C | 01/17/99 | — | 30.60 | — | — | — | — | — | — | — |
| MW-C | 06/10/99 | Well abandoned | | | | | | | | |
| MW-D | 01/17/99 | — | 31.32 | — | 5,600 | 1,600 | 130 | 66 | 220 | <5.0 |
| MW-D | 06/10/99 | Well abandoned | | | | | | | | |
| MW-E | 01/17/99 | — | 31.36 | — | 5,700 | 1,600 | 180 | 180 | 310 | <50 |
| MW-E | 06/10/99 | — | — | — | 5,000 | 1,300 | 130 | 320 | 450 | <25 |
| MW-E | 09/07/99 | Well abandoned | | | | | | | | |

Table 1
Summary of Groundwater Levels and Chemical Analysis

Beacon Station 3604 - 1619 West First Street, Livermore

| Well ID | Date | Reference Elevation ¹ (feet) | Depth to Water ¹ (feet) | Groundwater Elevation (feet-MSL) | TPH-G (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Total Xylenes (µg/l) | MTBE 8260 (µg/l) |
|---------|----------|--|---------------------------------------|-------------------------------------|-----------------|-------------------|-------------------|-------------------------|-------------------------|---------------------|
| MW-W | 01/17/99 | — | 30.91 | — | 23,000 | 7,600 | 760 | 1,400 | 5,000 | <50 |
| MW-W | 06/10/99 | — | — | — | 16,000 | 4,100 | 420 | 1,300 | 4,000 | <50 |
| MW-W | 09/07/99 | Well abandoned | | | | | | | | |

NOTES:

1 Measurement and reference elevation taken from notch/mark on top of well casing.

MSL = Mean sea level

µg/l = micrograms per liter (parts per billion)

— = not measured / not analyzed

TPH-G = total petroleum hydrocarbons as gasoline

MTBE = methyl tert butyl ether

< = not detected at or above the stated method detection limit

* = product is not typical gasoline

APPENDIX A
ULTRAMAR FIELD PROCEDURES

ULTRAMAR FIELD PROCEDURES

The following section describes procedures used by field personnel in the performance of groundwater sampling at Ultramar Inc. sites.

Groundwater Level and Total Depth Determination

A water level indicator is lowered down the well and a measurement of the depth to water from an established reference point on the casing is taken. The indicator probe is used to sound the bottom of the well and a measurement of the total depth of the well is taken. Both the water level and total depth measurements are taken to the nearest 0.01-foot.

Visual Analysis of Groundwater

Prior to purging and sampling groundwater monitoring wells, a water sample is collected from each well for subjective analysis. The visual analysis involves gently lowering a clean, disposable polyethylene bailer to approximately one-half the bailer length past the water table interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating product or the appearance of a petroleum product sheen. If measurable free product is noted in the bailer, a water/product interface probe is used to determine the thickness of the free product to the nearest 0.01-foot. The thickness of free product is determined by subtracting the depth to product from the depth to water.

Monitoring Well Purging and Sampling

Monitoring wells are purged by removing approximately four casing volumes of water from the well using a clean disposable bailer or electrical submersible purge pump. Purge volumes are calculated prior to purging. During purging, the temperature, pH, and electrical conductivity of the purge water are monitored. The well is considered to be sufficiently purged when the four casing volumes have been removed; the temperature, pH, and conductivity values have stabilized to within 10% of the initial readings; and the groundwater being removed is relatively free of suspended solids. After purging, groundwater levels are allowed to stabilize to within 80% of the initial water level reading. A water sample is then collected from each well with a clean, disposable polyethylene bailer. If the well is bailed or pumped dry prior to removing the minimum amount of water, the groundwater is allowed to recharge. If the well has recharged to within 80% of the initial depth to water reading within two hours, the well will continue to be purged until the minimum volume of water has been removed. If the well has not recharged to at least 80% of the initial depth to water reading within two hours, the well is considered to contain formational water and a groundwater sample is collected. Groundwater removed from the well is stored in 55-gallon drums at the site and labeled pending disposal.

In wells where free product is detected, the wells will be bailed to remove the free product. An estimate of the volume of product and water will be recorded. If the free product thickness is reduced to the point where a measurable thickness is no longer present in the well, a groundwater sample will be collected. If free product persists throughout the purging process, a final free product thickness measurement will be taken and a groundwater sample will not be collected.

Groundwater samples are stored in 40-milliliter vials so that air passage through the sample is minimized (to prevent volatilization of the sample). The vial is tilted and filled slowly until an upward convex meniscus forms over the mouth of the vial. The Teflon™ side of the septum (in cap) is then placed against the meniscus, and the cap is screwed on tightly. The sample is then inverted and the bottle is tapped lightly to check for air bubbles. If an air bubble is present in the vial, the cap is removed and more sample is transferred from the bailer. The vial is then resealed and rechecked for air bubbles. The sample is then appropriately labeled and stored on ice from the time of collection through the time of delivery to the laboratory. The chain-of-custody form is completed to ensure sample integrity. Groundwater samples are transported to a state-certified laboratory and analyzed within the U.S. Environmental Protection Agency-specified hold times for the specified analytes.

APPENDIX B

DOULOS ENVIRONMENTAL FIELD DATA SHEETS

DOULOS ENVIRONMENTAL, INC.
GROUNDWATER/LIQUID LEVEL DATA
(measurements in feet)

Project Address: Beacon # 3604 1619 First St. 10299 Folsom Blvd.
Livermore, Ca.

Date: 3-18-02

Project No.: 3604-63

Recorded by: _____

| Well No. | Time | Well Elev. TOC | Depth to Groundwater | Measured Total Depth | Groundwater Elevation | Depth to Product | Product Thickness | Comments |
|----------|------|-------------------|-------------------------|-------------------------|--------------------------|---------------------|----------------------|----------|
| MW-1 | 4:30 | | 38.24 | 69.56 | | | | |
| MW-2 | 4:26 | | 38.94 | 67.89 | | | | |
| MW-3 | 4:21 | | 37.73 | 67.15 | | | | |
| MW-4 | 4:33 | | 37.75 | 69.36 | | | | |
| MW-5 | 4:10 | | 38.75 | 67.80 | | | | |
| MW-6 | 4:14 | | 41.29 | 64.90 | | | | |
| MW-7 | 4:18 | | 39.22 | 67.05 | | | | |
| | | | | | | | | |
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Notes:

Client: Ultramar
 Site: Beacon #3604
1619 First St.
Livermore, Ca.

Sampling Date: 3-18-02
 Project No.: _____
 Well Designation: MU-2

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in the well box? NO YES Above TOC _____ Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 4
 Well cover type: 8" or 12" UV _____ 12" EMCO _____ 8" or 12" BK _____ 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI _____ 36" CNI _____ 12" Pomeco Other: _____
 General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer _____ Centrifugal pump
 Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 4:26 Time: NA Calculated purge: _____
 Depth of well: 89.56 Depth to water: NA Actual purge: NA
 Depth to water: 38.94

Start purge: NA Sampling time: 4:56

| Time | Temperature | E.C. | pH | Turbidity | Volume |
|------|-------------|------|----|-----------|--------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Sample appearance: clear Lock: Dolphin

Equipment replaced: (check all that apply) Note condition of replaced item(s)
 2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Ultramar
Site: Beacon #3604
1619 First St.
Livermore, Ca.

Sampling Date: 3-18-02
Project No.: _____
Well Designation: MW-5

Is setup of traffic control devices required? NO YES
Is there standing water in the well box? NO YES
Is top of casing cut level? NO YES
Is well cap sealed and locked? NO YES
Height of well casing riser (in inches): 5
Well cover type: 8" or 12" UV 12" EMCO _____ 8" or 12" BK _____ 8" Christy _____
12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
12" CNI _____ 36" CNI _____ 12" Pomeco _____ Other: _____
General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

time: _____ hours
Above TOC _____ Below TOC
If no, see remarks
If no, see remarks

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
_____ 2" PVC bailer _____ Dedicated bailer
_____ 4" PVC bailer _____ Centrifugal pump
Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____
Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement 4:10 Recharge Measurement _____
Time: _____ NA _____ Calculated purge: _____
Depth of well: 87.80 Depth to water: NA Actual purge: NA
Depth to water: 38.75

Start purge: NA Sampling time: 4:40

| Time | Temperature | E.C. | pH | Turbidity | Volume |
|------|-------------|------|----|-----------|--------|
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Ultramar
 Site: Beacon #3604
1619 First St.
Livermore, Ca.

Sampling Date: 3-18-02
 Project No.: _____
 Well Designation: MW-6

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in the well box? NO YES Above TOC _____ Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? 4 NO YES If no, see remarks
 Height of well casing riser (in inches): _____
 Well cover type: 8" or 12" UV 12" EMCO _____ 8" or 12" BK _____ 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI _____ 36" CNI _____ 12" Pomeco _____ Other: _____
 General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer _____ Centrifugal pump
 Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 4:14 Time: NA Calculated purge: _____
 Depth of well: 64.90 Depth to water: NA Actual purge: NA
 Depth to water: 41.29

Start purge: NA Sampling time: 4:46

| Time | Temperature | E.C. | pH | Turbidity | Volume |
|------|-------------|------|----|-----------|--------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Sample appearance: clear Lock: Dolphin

Equipment replaced: (check all that apply) Note condition of replaced item(s)
 2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Ultramar
 Site: Beacon #3604
1619 First St.
Livermore, Ca.

Sampling Date: 3-18-02
 Project No.: _____
 Well Designation: MW-7

Is setup of traffic control devices required? NO YES
 Is there standing water in the well box? NO YES
 Is top of casing cut level? NO YES
 Is well cap sealed and locked? NO YES
 Height of well casing riser (in inches): 6
 Well cover type: 8" or 12" UV 12" EMCO _____ 8" or 12" BK _____ 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI _____ 36" CNI _____ 12" Pomeco _____ Other: _____
 General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer _____ Centrifugal pump
 Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement Recharge Measurement
 Time: 4:18 Time: NA Calculated purge: _____
 Depth of well: 67.05 Depth to water: NA Actual purge: NA
 Depth to water: 39.22

Start purge: NA Sampling time: 4:50

| Time | Temperature | E.C. | pH | Turbidity | Volume |
|------|-------------|------|----|-----------|--------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Sample appearance: clear Lock: Dolphin

Equipment replaced: (check all that apply) Note condition of replaced item(s)
 2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

APPENDIX C

OFFICIAL LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS



Report Number : 25579

Date : 4/4/2002

Tracy Walker
TRC Alton Geoscience
5052 Commercial Circle
Concord, CA 94520

Subject : 4 Water Samples
Project Name : LIVERMORE 3604
Project Number :
P.O. Number : 3604-63

Dear Mr. Walker,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large, looped "J" and "K".

Joel Kiff



Report Number : 25579

Date : 4/4/2002

Project Name : LIVERMORE 3604

Project Number :

Sample : MW-2

Matrix : Water

Lab Number : 25579-01

Sample Date :3/18/2002

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 240 | 2.0 | ug/L | EPA 8260B | 3/31/2002 |
| Toluene | 7.3 | 2.0 | ug/L | EPA 8260B | 3/31/2002 |
| Ethylbenzene | 200 | 2.0 | ug/L | EPA 8260B | 3/31/2002 |
| Total Xylenes | 53 | 2.0 | ug/L | EPA 8260B | 3/31/2002 |
| Methyl-t-butyl ether (MTBE) | 89 | 2.0 | ug/L | EPA 8260B | 3/31/2002 |
| TPH as Gasoline | 4200 | 200 | ug/L | EPA 8260B | 3/31/2002 |
| Toluene - d8 (Surr) | 105 | | % Recovery | EPA 8260B | 3/31/2002 |
| 4-Bromofluorobenzene (Surr) | 102 | | % Recovery | EPA 8260B | 3/31/2002 |

Sample : MW-6

Matrix : Water

Lab Number : 25579-02

Sample Date :3/18/2002

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 2600 | 10 | ug/L | EPA 8260B | 3/31/2002 |
| Toluene | 120 | 10 | ug/L | EPA 8260B | 3/31/2002 |
| Ethylbenzene | 1800 | 10 | ug/L | EPA 8260B | 3/31/2002 |
| Total Xylenes | 2800 | 10 | ug/L | EPA 8260B | 3/31/2002 |
| Methyl-t-butyl ether (MTBE) | 740 | 10 | ug/L | EPA 8260B | 3/31/2002 |
| TPH as Gasoline | 33000 | 1000 | ug/L | EPA 8260B | 3/31/2002 |
| Toluene - d8 (Surr) | 94.7 | | % Recovery | EPA 8260B | 3/31/2002 |
| 4-Bromofluorobenzene (Surr) | 98.7 | | % Recovery | EPA 8260B | 3/31/2002 |

Approved By:  Joel Kiff



Report Number : 25579

Date : 4/4/2002

Project Name : LIVERMORE 3604

Project Number :

Sample : MW-7

Matrix : Water

Lab Number : 25579-03

Sample Date :3/18/2002

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 7.3 | 0.50 | ug/L | EPA 8260B | 3/30/2002 |
| Toluene | 1.5 | 0.50 | ug/L | EPA 8260B | 3/30/2002 |
| Ethylbenzene | 38 | 0.50 | ug/L | EPA 8260B | 3/30/2002 |
| Total Xylenes | 110 | 0.50 | ug/L | EPA 8260B | 3/30/2002 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/30/2002 |
| TPH as Gasoline | 3100 | 50 | ug/L | EPA 8260B | 3/30/2002 |
| Toluene - d8 (Surr) | 104 | | % Recovery | EPA 8260B | 3/30/2002 |
| 4-Bromofluorobenzene (Surr) | 103 | | % Recovery | EPA 8260B | 3/30/2002 |

Sample : MW-5

Matrix : Water

Lab Number : 25579-04

Sample Date :3/18/2002

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 0.65 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Methyl-t-butyl ether (MTBE) | 3.1 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| TPH as Gasoline | 890 | 50 | ug/L | EPA 8260B | 3/27/2002 |
| Toluene - d8 (Surr) | 104 | | % Recovery | EPA 8260B | 3/27/2002 |
| 4-Bromofluorobenzene (Surr) | 98.0 | | % Recovery | EPA 8260B | 3/27/2002 |

Approved By:  Joel Kiff

Report Number : 25579

Date : 4/4/2002

QC Report : Method Blank Data

Project Name : **LIVERMORE 3604**

Project Number :

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|-------|-----------------|---------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 4/3/2002 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 4/3/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 4/3/2002 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 4/3/2002 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 4/3/2002 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 4/3/2002 |
| Toluene - dB (Surr) | 96.6 | | % | EPA 8260B | 4/3/2002 |
| 4-Bromofluorobenzene (Surr) | 91.2 | | % | EPA 8260B | 4/3/2002 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 3/27/2002 |
| Toluene - dB (Surr) | 98.0 | | % | EPA 8260B | 3/27/2002 |
| 4-Bromofluorobenzene (Surr) | 91.6 | | % | EPA 8260B | 3/27/2002 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 3/27/2002 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 3/27/2002 |
| Toluene - dB (Surr) | 105 | | % | EPA 8260B | 3/27/2002 |
| 4-Bromofluorobenzene (Surr) | 98.8 | | % | EPA 8260B | 3/27/2002 |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------|----------------|------------------------|-------|-----------------|---------------|
|-----------|----------------|------------------------|-------|-----------------|---------------|

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 25579


Date : 4/4/2002

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : LIVERMORE 3604

Project Number :

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|----------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Benzene | 25579-04 | 0.65 | 40.0 | 40.0 | 41.6 | 40.6 | ug/L | EPA 8260B | 3/27/02 | 102 | 99.8 | 2.42 | 70-130 | 25 |
| Toluene | 25579-04 | <0.50 | 40.0 | 40.0 | 41.4 | 41.0 | ug/L | EPA 8260B | 3/27/02 | 104 | 103 | 0.897 | 70-130 | 25 |
| Tert-Butanol | 25579-04 | <5.0 | 200 | 200 | 208 | 205 | ug/L | EPA 8260B | 3/27/02 | 104 | 102 | 1.53 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 25579-04 | 3.1 | 40.0 | 40.0 | 41.7 | 42.1 | ug/L | EPA 8260B | 3/27/02 | 96.4 | 97.4 | 0.955 | 70-130 | 25 |
| Benzene | 25579-03 | 9.9 | 40.0 | 40.0 | 54.1 | 52.7 | ug/L | EPA 8260B | 3/27/02 | 110 | 107 | 3.24 | 70-130 | 25 |
| Toluene | 25579-03 | 2.1 | 40.0 | 40.0 | 48.7 | 47.7 | ug/L | EPA 8260B | 3/27/02 | 117 | 114 | 2.32 | 70-130 | 25 |
| Tert-Butanol | 25579-03 | <5.0 | 200 | 200 | 214 | 208 | ug/L | EPA 8260B | 3/27/02 | 107 | 104 | 2.87 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 25579-03 | 0.50 | 40.0 | 40.0 | 39.7 | 39.2 | ug/L | EPA 8260B | 3/27/02 | 97.9 | 96.8 | 1.10 | 70-130 | 25 |
| Benzene | 25633-01 | <0.50 | 20.0 | 19.9 | 18.4 | 18.4 | ug/L | EPA 8260B | 4/2/02 | 92.0 | 92.6 | 0.650 | 70-130 | 25 |
| Toluene | 25633-01 | <0.50 | 20.0 | 19.9 | 17.8 | 17.7 | ug/L | EPA 8260B | 4/2/02 | 89.0 | 89.0 | 0.0562 | 70-130 | 25 |
| Tert-Butanol | 25633-01 | <5.0 | 99.8 | 99.7 | 86.6 | 90.8 | ug/L | EPA 8260B | 4/2/02 | 86.8 | 91.1 | 4.86 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 25633-01 | <0.50 | 20.0 | 19.9 | 18.5 | 18.3 | ug/L | EPA 8260B | 4/2/02 | 92.7 | 91.8 | 0.976 | 70-130 | 25 |

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 25579

Date : 4/4/2002

QC Report : Laboratory Control Sample (LCS)

Project Name : **LIVERMORE 3604**

Project Number :

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|----------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Benzene | 40.0 | ug/L | EPA 8260B | 3/27/02 | 101 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 3/27/02 | 101 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 3/27/02 | 103 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 3/27/02 | 93.2 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 3/27/02 | 109 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 3/27/02 | 114 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 3/27/02 | 102 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 3/27/02 | 103 | 70-130 |
| Benzene | 20.0 | ug/L | EPA 8260B | 4/2/02 | 93.4 | 70-130 |
| Toluene | 20.0 | ug/L | EPA 8260B | 4/2/02 | 91.6 | 70-130 |
| Tert-Butanol | 100 | ug/L | EPA 8260B | 4/2/02 | 90.8 | 70-130 |
| Methyl-t-Butyl Ether | 20.0 | ug/L | EPA 8260B | 4/2/02 | 92.1 | 70-130 |

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

