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**STATUS REPORT  
THIRD QUARTER 2001  
FORMER BEACON STATION #12574  
22315 REDWOOD ROAD  
CASTRO VALLEY, CALIFORNIA**

BSK Job 07-4-00237

*Submitted to:*

ULTRAMAR, INC.

December 6, 2001



December 6, 2001

Project 07-4-00237

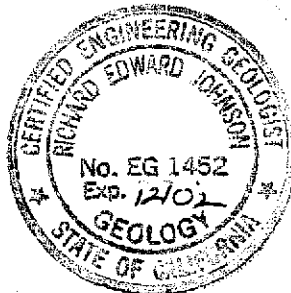
Mr. Joseph A. Aldridge, RG  
Senior Project Manager  
Retail Environmental Services  
Ultramar, Inc.  
685 West Third Street  
Hanford, CA 93230

Subject: Status Report  
Third Quarter 2001  
Former Beacon Station # 12574  
22315 Redwood Road  
Castro Valley, California

Dear Mr. Aldridge:

BSK & Associates (BSK) is pleased to submit the attached quarterly status report, which summarizes groundwater monitoring for the third quarter of 2001. Well sampling was conducted for Ultramar, Inc. by Doulos Environmental Company, and analytical testing was conducted by Kiff Analytical. This report summarizes the data provided to us by Doulos Environmental Company and Kiff Analytical.

This report has been prepared according to California Regional Water Quality Control Board - Central Valley Region (RWQCB) requirements as presented in the *Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites, Appendix A*. At your request, a copy of this report has been forwarded to Mr. Amir K. Gholami, Alameda County Department of Environmental Health (ACDEH) and Mr. Richard Hiatt, RWQCB. Should you have questions regarding the report, please do not hesitate to call us.



Sincerely,  
BSK & Associates

Richard E. Johnson, CEG  
Manager, Environmental Services

Distribution:

- Mr. J. Aldridge, RG (1 original)
- Mr. Amir K. Gholami, ACDEH (1 copy)
- Mr. Richard Hiatt, RWQCB (1 copy)
- Mr. Bill Courtney, Property Manager (1 copy)

*A California Corporation*

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## 1.0 INTRODUCTION

This report presents a summary of the results of quarterly groundwater monitoring at former Beacon Station # 12574 (the Site) during the third quarter of 2001. Figure 1, the Vicinity Map, illustrates the location of the site.

Site information is as follows:

Site Name and Location: Former Ultramar (Beacon) Station # 12574  
22315 Redwood Road  
Castro Valley, California

Tank Owner and Contact: Ultramar, Inc.,  
Mr. Joe Aldridge, RG  
685 West Third Street  
Hanford, California 93230  
(559) 583-3231

## 2.0 SITE DESCRIPTION AND HISTORY

The Site is located at the intersection of Redwood Road and Grove Way in Castro Valley, California. The Site is currently occupied by commercial businesses in separate suites within a single building. A Site Plan is shown in Figure 2.

In 1981, Shell Oil Co. removed and replaced three underground storage tanks (USTs). Results of the soil samples collected at the time of the UST removal indicated the presence of petroleum hydrocarbons in the soil underlying the USTs.

From 1981 to 1987 Ultramar leased the Site, including the petroleum product storage and piping equipment, and operated a retail gasoline service station. On May 5, 1987 two 5,000-gallon-capacity diesel USTs, a 7,000-gallon-capacity gasoline UST, one 8,000-gallon-capacity gasoline UST, and one 500-gallon-capacity waste oil UST were removed from the Site. Over excavation of the UST basin to a depth of approximately 20 feet below grade was performed on May 18, 1987. Three of seven soil samples collected from the walls and the floor of the excavation contained Total Volatile Hydrocarbons, up to 1,989 parts per million (ppm).

On March 26, 1991, three soil borings were advanced to depths of approximately 30 feet below ground surface (bgs) and completed as 4-inch-diameter monitoring wells MW-1, MW-2, and MW-3 (Figure 2). Soil samples collected from the borings were submitted for laboratory analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons as gasoline (TPHg), and total petroleum hydrocarbons as diesel (TPHd). None of the soil

samples contained detectable TPHd. The soil samples collected from 10 and 15 feet bgs (above the water table) in boring MW-2 contained 8.1 ppm and 3,200 ppm TPHg, respectively.

On April 1, 1991 groundwater samples were collected from monitoring wells MW-1, MW-2, and MW-3. None of the samples contained detectable levels of TPHd. BTEX and TPHg were detected in samples from each of the three wells. Benzene concentrations ranged from 41 parts per billion (ppb) in MW-3 to 650 ppb in MW-2.

On May 13 and 18, 1993 Acton Mickelson and van Dam (AMV), advanced and sampled five soil borings which were converted to 2-inch-diameter monitoring wells MW-4 through MW-8 (Figure 2). AMV submitted a total of 23 soil samples for laboratory analysis of TPHg and BTEX and none contained detectable petroleum hydrocarbons.

On May 18, 1993, AMV collected groundwater samples from monitoring wells MW-4 through MW-8 for laboratory analysis of TPHg and BTEX. None of the groundwater samples collected contained detectable BTEX, however, the groundwater sample collected from monitoring well MW-6 contained 170 ppb TPHg.

Monitoring wells MW-7 and MW-8 were abandoned during the fall of 1998 as part of a street up-grade on Redwood Road.

In a letter dated: August 27, 2001, ACDEH directed Ultramar that monitoring wells MW-3, MW-4, MW-5, and MW-6 no longer need to be sampled unless directed.

### **3.0 QUARTERLY ACTIVITIES**

Quarterly groundwater monitoring and sampling was conducted by Doulos Environmental Company (Doulos). Doulos reports that they conducted well purging, sampling, and sample handling activities in substantial conformance with Ultramar Field Procedures for monitoring well sampling (see Appendix A). Chemical analyses were conducted by Kiff Analytical Laboratory, LLC. Field sample logs are included in Appendix B and analytical reports are included in Appendix C.

#### **3.1 Groundwater Gradient and Flow Direction**

Groundwater depths were measured in each well prior to sampling by Doulos. Depths were measured relative to the top of each well casing. Groundwater depths in each well were subtracted from the elevation of that wellhead to establish a groundwater elevation. A cumulative summary of groundwater elevation data is also included in Table 2.

On the basis of the September 21, 2001, groundwater measurements, groundwater appears to flow to the south-southwest with a surface gradient of 0.015. Figure 3 presents a generalized potentiometric surface map for the monitoring event. Water sample logs are included in Appendix B.

### **3.2 Analytical Results**

Groundwater samples were collected by Doulos, and subsequently relinquished to Kiff Analytical, LLC, a State-certified analytical laboratory, under chain-of-custody documentation. The water samples were analyzed for TPHg, BTEX, and MTBE by EPA Method 8260.

The groundwater analytical results are summarized in the Table 1. Benzene concentrations for the September 21, 2001, monitoring event are shown on Figure 4. Cumulative analytical results are summarized in Table 3. Laboratory data reports and chain-of-custody documentation are included in Appendix C.

### **4.0 DISCUSSION**

TPHg, BTEX, and MTBE were found in the samples collected for analysis from monitoring wells MW-1 and MW-2 at concentrations consistent with those from previous sampling events.

### **5.0 LIMITATIONS**

This report has been prepared for the exclusive use of Ultramar, Inc. Unauthorized use of or reliance on the information contained in this report by others, unless given the express written consent by BSK & Associates, is prohibited.

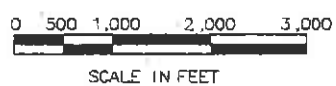
The conclusions presented in this report are professional opinions based on the indicated data described in this report. This report has been prepared in accordance with generally accepted methodologies and standards of professional practice. No other warranties, either expressed or implied, are made as to the findings or conclusions included in the report. Conclusions and recommendations are intended only for the purpose, site location and project indicated.

Opinions presented herein apply to site conditions existing at the time of our study and those reasonably foreseeable. They cannot necessarily apply to site changes of which this office is not aware and has not had the opportunity to evaluate. Changes in the conditions of the subject property can occur with time, because of natural processes or the works of man, on the subject site or on adjacent properties.



PROJECT NORTH

SCALE: 1" = 2,000'



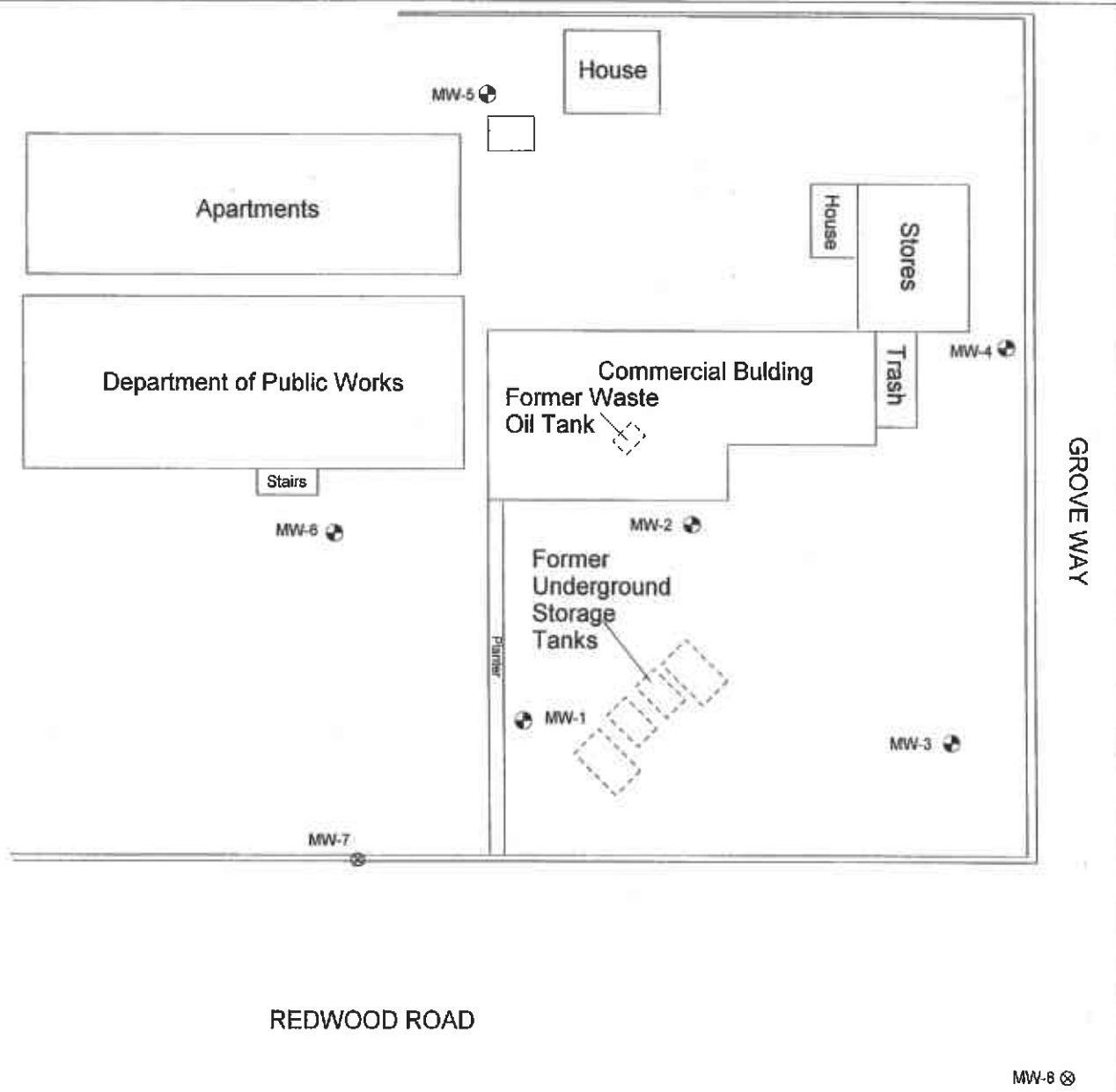
**SITE LOCATION MAP**  
 FORMER BEACON STATION #574  
 223 15 REDWOOD ROAD  
 CASTRO VALLEY, CALIFORNIA

FIGURE 1  
 PROJECT : 07400237  
 DATE : 5/3/00

**BSK** Engineers, Geologists,  
 Environmental Scientists



| Explanation |                           |
|-------------|---------------------------|
| MW-1        | Monitoring Well Location  |
| MW-7        | Abandoned Monitoring Well |

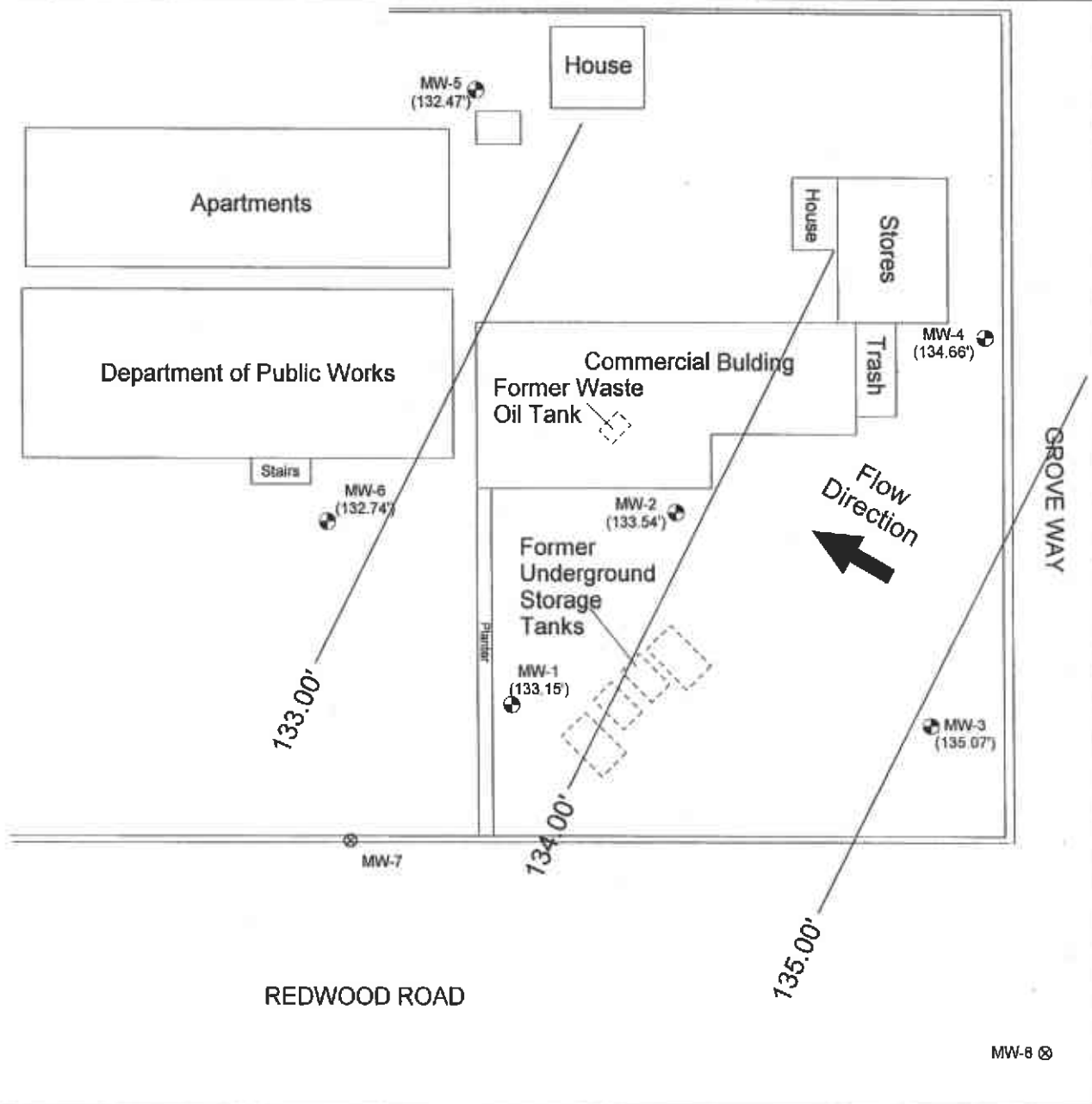


# SITE PLAN

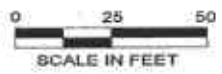
FORMER BEACON STATION #574  
 22315 REDWOOD ROAD  
 CASTRO VALLEY, CALIFORNIA

FIGURE 2  
 PROJECT: 07400237  
 DATE: 3/12/01



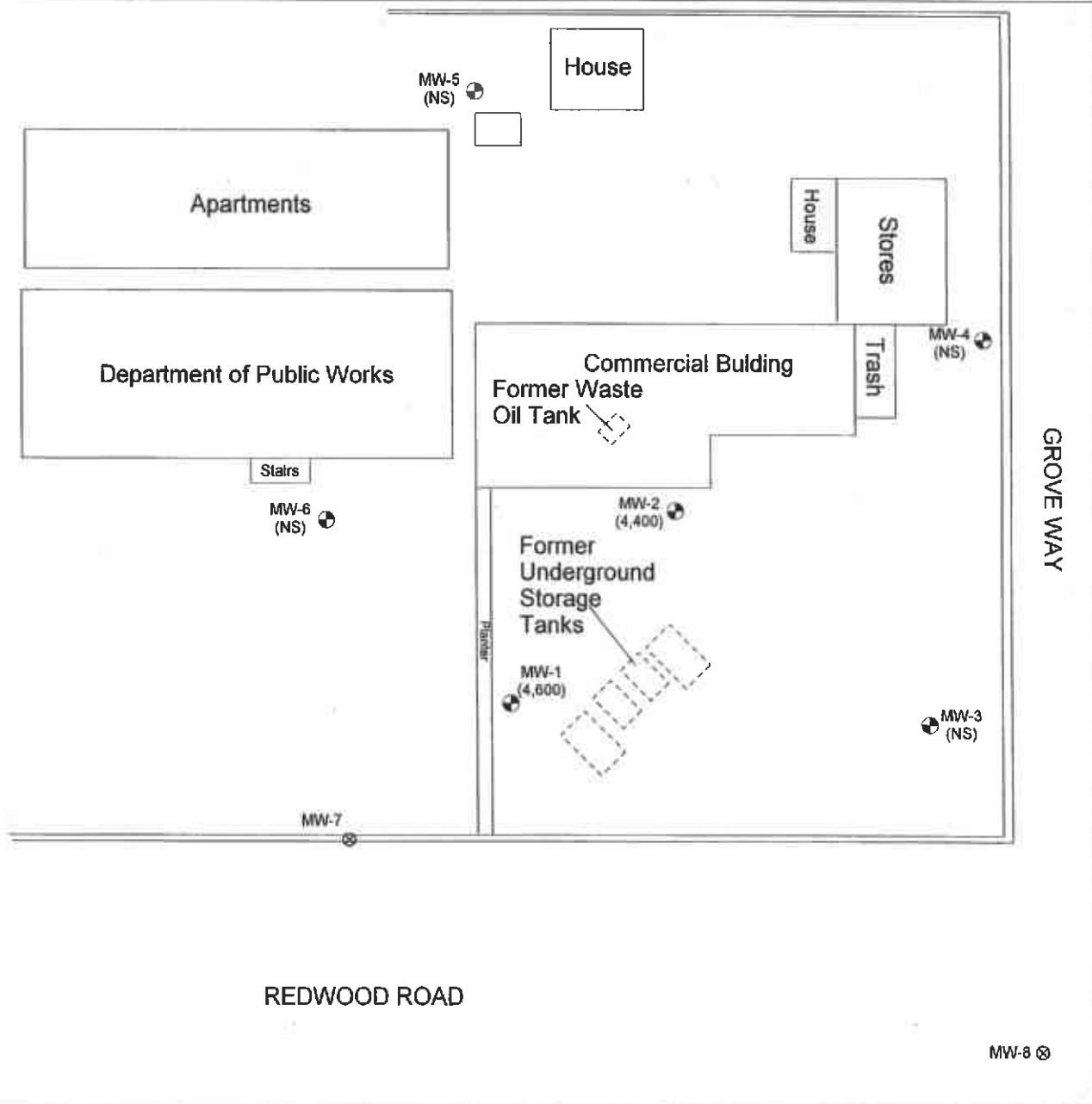


| Explanation    |   |
|----------------|---|
| MW-2 (133.54') | Monitoring Well Location and Groundwater Elevation (feet msl) |
| MW-7 (133.15') | Abandoned Monitoring Well                                     |
| 135.00'        | Potentiometric Surface Contours                               |
|                | dh/dl = 0.015   |



**GENERALIZED POTENTIOMETRIC SURFACE MAP**  
**SEPTEMBER 2001**  
 FORMER BEACON STATION #574  
 22315 REDWOOD ROAD  
 CASTRO VALLEY, CALIFORNIA

FIGURE 3  
 PROJECT: 07400237  
 DATE: 10/15/01



### Explanation

- MW-5 (<0.50) Monitoring Well Location Benzene Concentration (ug/L)
- Abandoned Monitoring Well
- Benzene Concentration Contour Line (ug/L)



DISSOLVED BENZENE DISTRIBUTION MAP  
 SEPTEMBER 2001  
 FORMER BEACON STATION #574  
 22315 REDWOOD ROAD  
 CASTRO VALLEY, CALIFORNIA

FIGURE 4  
 PROJECT: 07400237  
 DATE: 10/15/01

**Table 1**  
**Summary of Groundwater Analytical Results**  
**Third Quarter 2001**  
**Former Beacon Station # 12574, Castro Valley, California**

| Well ID | TPHg<br>(mg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Xylenes<br>(µg/L) | MTBE<br>(µg/L) |
|---------|----------------|-------------------|-------------------|-----------------------------|-------------------|----------------|
| MW-1    | 23,000         | 4,600             | 75                | 1,200                       | 2,300             | 450            |
| MW-2    | 63,000         | 4,400             | 180               | 1,000                       | 2,000             | 730            |
| MW-3    | NS             | NS                | NS                | NS                          | NS                | NS             |
| MW-4    | NS             | NS                | NS                | NS                          | NS                | NS             |
| MW-5    | NS             | NS                | NS                | NS                          | NS                | NS             |
| MW-6    | NS             | NS                | NS                | NS                          | NS                | NS             |

Notes:  
 <: Not detected above laboratory's indicated reportable detection limit.  
 NS : Not sampled.

**Table 2**  
**Cumulative Groundwater Elevation Data**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID  | Top of Casing Elevation (Feet) <sup>1</sup> | Date Sounded | Depth to Groundwater (Feet) <sup>1</sup> | Groundwater Elevation (Feet) <sup>2</sup> | Well Depth (Feet) |
|----------|---|--------------|--|---|-------------------|
| MW-1     | 156.55                                      | 03/27/92     | 22.43                                    | 134.12                                    | -                 |
|          |   | 06/04/92     | 23.40                                    | 133.15                                    | -                 |
|          |   | 09/23/92     | 24.07                                    | 132.48                                    | -                 |
|          |   | 11/12/92     | 24.16                                    | 132.39                                    | 29.33             |
|          |   | 02/02/93     | 21.87                                    | 134.68                                    | 29.80             |
|          |   | 05/07/93     | 22.58                                    | 133.97                                    | 29.84             |
|          |   | 05/18/93     | 22.66                                    | 133.89                                    | -                 |
|          |   | 08/11/93     | 23.41                                    | 133.14                                    | 29.81             |
|          |   | 11/05/93     | 24.09                                    | 132.46                                    | 29.81             |
|          |   | 03/01/94     | 22.76                                    | 133.79                                    | 29.85             |
|          |   | 06/02/94     | 23.24                                    | 133.31                                    | 29.85             |
|          |   | 09/09/94     | 23.93                                    | 132.62                                    | 29.86             |
|          |   | 12/20/94     | 22.94                                    | 133.61                                    | 29.85             |
|          |   | 03/08/95     | 22.20                                    | 134.35                                    | 29.71             |
|          |   | 06/14/95     | 22.65                                    | 133.90                                    | 29.70             |
|          |   | 09/26/95     | 23.44                                    | 133.11                                    | 29.71             |
|          |   | 12/27/95     | 23.04                                    | 133.51                                    | 29.72             |
|          |   | 03/26/96     | 21.39                                    | 135.16                                    | 29.71             |
|          |   | 06/05/96     | 22.43                                    | 134.12                                    | 29.73             |
|          |   | 09/16/96     | 24.42                                    | 132.13                                    | 29.74             |
|          |   | 12/02/96     | 23.14                                    | 133.41                                    | 29.75             |
|          |   | 03/10/97     | 22.30                                    | 134.25                                    | 29.76             |
|          |   | 06/12/97     | 22.97                                    | 133.58                                    | 29.76             |
|          |   | 09/29/97     | 23.35                                    | 133.20                                    | 29.78             |
|          |   | 12/01/97     | 22.73                                    | 133.82                                    | 29.79             |
|          |   | 03/19/98     | 20.56                                    | 135.99                                    | 29.78             |
|          |   | 05/28/98     | 21.78                                    | 134.77                                    | 29.76             |
|          |   | 08/31/98     | 22.64                                    | 133.91                                    | 29.78             |
|          |   | 12/08/98     | 22.87                                    | 133.68                                    | 29.76             |
|          |   | 02/17/99     | 21.53                                    | 135.02                                    | 29.75             |
|          |   | 06/10/99     | 22.74                                    | 133.81                                    | 29.74             |
|          |   | 09/07/99     | 23.06                                    | 133.49                                    | 29.73             |
|          |   | 12/13/00     | 23.06                                    | 133.46                                    | 29.74             |
| 3/16/00  | 20.66                                       | 135.89       | 29.75                                    |   |                   |
| 6/12/00  | 22.53                                       | 134.02       | 29.76                                    |   |                   |
| 9/5/00   | 22.73                                       | 133.82       | 29.74                                    |   |                   |
| 11/13/00 | 23.20                                       | 133.35       | 29.74                                    |   |                   |
| 2/26/01  | 21.75                                       | 134.80       | 29.73                                    |   |                   |
| 6/12/01  | 22.70                                       | 133.85       | 29.73                                    |   |                   |
| 9/21/01  | 23.40                                       | 133.15       | 29.73                                    |   |                   |

**Table 2**  
**Cumulative Groundwater Elevation Data**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID  | Top of Casing Elevation (Feet) <sup>1</sup> | Date Sounded | Depth to Groundwater (Feet) <sup>1</sup> | Groundwater Elevation (Feet) <sup>2</sup> | Well Depth (Feet) |
|----------|---|--------------|--|---|-------------------|
| MW-2     | 155.17                                      | 03/27/92     | 20.82                                    | 134.35                                    | -                 |
|          |   | 06/04/92     | 21.81                                    | 133.36                                    | -                 |
|          |   | 09/23/92     | 22.45                                    | 132.72                                    | -                 |
|          |   | 11/12/92     | 22.60                                    | 132.57                                    | 29.71             |
|          |   | 02/02/93     | 20.28                                    | 134.89                                    | 29.73             |
|          |   | 05/07/93     | 20.97                                    | 134.20                                    | 29.73             |
|          |   | 05/18/93     | 21.06                                    | 134.11                                    | -                 |
|          |   | 08/11/93     | 21.85                                    | 133.32                                    | 29.70             |
|          |   | 11/05/93     | 22.32                                    | 132.85                                    | 29.70             |
|          |   | 03/01/94     | 21.19                                    | 133.98                                    | 29.68             |
|          |   | 06/02/94     | 21.59                                    | 133.58                                    | 29.69             |
|          |   | 09/09/94     | 22.33                                    | 132.84                                    | 29.66             |
|          |   | 12/20/94     | 21.37                                    | 133.80                                    | 29.65             |
|          |   | 03/08/95     | 20.60                                    | 134.57                                    | 29.52             |
|          |   | 06/14/95     | 21.04                                    | 134.13                                    | 29.54             |
|          |   | 09/26/95     | 21.84                                    | 133.33                                    | 29.53             |
|          |   | 12/27/95     | 21.44                                    | 133.73                                    | 29.56             |
|          |   | 03/26/96     | 19.81                                    | 135.36                                    | 29.56             |
|          |   | 06/05/96     | 20.83                                    | 134.34                                    | 29.59             |
|          |   | 09/16/96     | 21.93                                    | 133.24                                    | 29.58             |
|          |   | 12/02/96     | 21.54                                    | 133.63                                    | 29.58             |
|          |   | 03/10/97     | 20.71                                    | 134.46                                    | 29.58             |
|          |   | 06/12/97     | 21.41                                    | 133.76                                    | 29.52             |
|          |   | 09/29/97     | 21.26                                    | 133.91                                    | 29.51             |
|          |   | 12/01/97     | 20.97                                    | 134.20                                    | 29.50             |
|          |   | 03/19/98     | 18.98                                    | 136.19                                    | 29.51             |
|          |   | 05/28/98     | 20.22                                    | 134.95                                    | 29.50             |
|          |   | 08/31/98     | 21.09                                    | 134.08                                    | 29.51             |
|          |   | 12/08/98     | 21.31                                    | 133.86                                    | 29.50             |
|          |   | 02/17/99     | 20.02                                    | 135.15                                    | 29.51             |
|          |   | 06/10/99     | 21.30                                    | 133.87                                    | 29.50             |
|          |   | 09/07/99     | 21.49                                    | 133.68                                    | 29.50             |
| 12/13/99 | 21.52                                       | 133.65       | 29.50                                    |   |                   |
| 3/16/00  | 19.13                                       | 136.04       | 29.50                                    |   |                   |
| 6/12/00  | 20.93                                       | 134.24       | 29.50                                    |   |                   |
| 9/5/00   | 21.15                                       | 134.02       | 29.50                                    |   |                   |
| 11/13/00 | 21.66                                       | 133.51       | 29.50                                    |   |                   |
| 2/26/01  | 20.17                                       | 135.00       | 29.50                                    |   |                   |
| 6/12/01  | 21.15                                       | 134.02       | 29.50                                    |   |                   |
| 9/21/01  | 21.63                                       | 133.54       | 29.50                                    |   |                   |

**Table 2**  
**Cumulative Groundwater Elevation Data**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID  | Top of Casing Elevation (Feet) <sup>1</sup> | Date Sounded | Depth to Groundwater (Feet) <sup>1</sup> | Groundwater Elevation (Feet) <sup>2</sup> | Well Depth (Feet) |
|----------|---|--------------|--|---|-------------------|
| MW-3     | 157.13                                      | 03/27/92     | 21.46                                    | 135.67                                    | -                 |
|          |   | 06/04/92     | 22.34                                    | 134.79                                    | -                 |
|          |   | 09/23/92     | 22.84                                    | 134.29                                    | -                 |
|          |   | 11/12/92     | 23.04                                    | 134.09                                    | 29.55             |
|          |   | 02/02/93     | 21.03                                    | 136.10                                    | 29.45             |
|          |   | 05/07/93     | 21.59                                    | 135.54                                    | 29.53             |
|          |   | 05/18/93     | 21.73                                    | 135.40                                    | -                 |
|          |   | 08/11/93     | 22.31                                    | 134.82                                    | 29.41             |
|          |   | 11/05/93     | 22.85                                    | 134.28                                    | 29.41             |
|          |   | 03/01/94     | 21.97                                    | 135.16                                    | 29.55             |
|          |   | 06/02/94     | 22.29                                    | 134.84                                    | 29.56             |
|          |   | 09/09/94     | 22.91                                    | 134.22                                    | 29.56             |
|          |   | 12/20/94     | 22.11                                    | 135.02                                    | 29.54             |
|          |   | 03/08/95     | 21.40                                    | 135.73                                    | 29.38             |
|          |   | 06/14/95     | 21.80                                    | 135.33                                    | 29.36             |
|          |   | 09/26/95     | 22.38                                    | 134.75                                    | 29.37             |
|          |   | 12/27/95     | 22.07                                    | 135.06                                    | 29.37             |
|          |   | 03/26/96     | 20.73                                    | 136.40                                    | 29.38             |
|          |   | 06/05/96     | 21.54                                    | 135.59                                    | 29.40             |
|          |   | 09/16/96     | 22.37                                    | 134.76                                    | 29.43             |
|          |   | 12/02/96     | 22.35                                    | 134.78                                    | 29.45             |
|          |   | 03/10/97     | 21.44                                    | 135.69                                    | 29.47             |
|          |   | 06/12/97     | 21.97                                    | 135.16                                    | 29.45             |
|          |   | 09/29/97     | 22.30                                    | 134.83                                    | 29.45             |
|          |   | 12/01/97     | 21.78                                    | 135.35                                    | 29.46             |
|          |   | 03/19/98     | 19.88                                    | 137.25                                    | 29.46             |
|          |   | 05/28/98     | 20.91                                    | 136.22                                    | 29.47             |
|          |   | 08/31/98     | 21.61                                    | 135.52                                    | 29.47             |
|          |   | 12/08/98     | 21.83                                    | 135.30                                    | 29.47             |
|          |   | 02/17/99     | 20.81                                    | 130.32                                    | 29.45             |
|          |   | 06/10/99     | 21.61                                    | 135.52                                    | 29.45             |
|          |   | 09/07/99     | 21.91                                    | 135.22                                    | 29.45             |
| 12/13/99 | 21.93                                       | 135.20       | 29.44                                    |   |                   |
| 3/16/00  | 19.86                                       | 137.27       | 29.46                                    |   |                   |
| 6/12/00  | 21.61                                       | 135.52       | 29.46                                    |   |                   |
| 9/5/00   | 21.54                                       | 135.59       | 29.47                                    |   |                   |
| 11/13/00 | 21.98                                       | 135.15       | 29.46                                    |   |                   |
| 2/26/01  | 20.65                                       | 136.48       | 29.46                                    |   |                   |
| 6/12/01  | 21.70                                       | 135.43       | 29.46                                    |   |                   |
| 9/21/01  | 22.05                                       | 135.07       | 29.46                                    |   |                   |

**Table 2**  
**Cumulative Groundwater Elevation Data**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID  | Top of Casing Elevation (Feet) <sup>1</sup> | Date Sounded | Depth to Groundwater (Feet) <sup>1</sup> | Groundwater Elevation (Feet) <sup>2</sup> | Well Depth (Feet) |
|----------|---|--------------|--|---|-------------------|
| MW-4     | 151.96                                      | 05/18/93     | 17.55                                    | 134.41                                    | -                 |
|          |   | 08/11/93     | 17.50                                    | 134.46                                    | 28.43             |
|          |   | 11/05/93     | 15.84                                    | 136.12                                    | 28.43             |
|          |   | 03/01/94     | 17.35                                    | 134.61                                    | 28.11             |
|          |   | 06/02/94     | 17.68                                    | 134.28                                    | 28.12             |
|          |   | 09/09/94     | 18.19                                    | 133.77                                    | 28.13             |
|          |   | 12/20/94     | 17.52                                    | 134.44                                    | 28.10             |
|          |   | 03/08/95     | 16.82                                    | 135.14                                    | 27.97             |
|          |   | 06/14/95     | 17.22                                    | 134.74                                    | 27.97             |
|          |   | 09/26/95     | 17.79                                    | 134.17                                    | 27.91             |
|          |   | 12/27/95     | 17.47                                    | 134.49                                    | 27.89             |
|          |   | 03/26/96     | 16.32                                    | 135.64                                    | 27.89             |
|          |   | 06/05/96     | 17.10                                    | 134.86                                    | 27.88             |
|          |   | 09/16/96     | 17.85                                    | 134.11                                    | 27.89             |
|          |   | 12/02/96     | 17.59                                    | 134.37                                    | 27.88             |
|          |   | 03/10/97     | 16.79                                    | 135.17                                    | 27.89             |
|          |   | 06/12/97     | 17.49                                    | 134.47                                    | 27.90             |
|          |   | 09/29/97     | 18.33                                    | 133.63                                    | 27.91             |
|          |   | 12/01/97     | 17.36                                    | 134.60                                    | 27.90             |
|          |   | 03/19/98     | 15.90                                    | 136.06                                    | 27.91             |
|          |   | 05/28/98     | 16.34                                    | 135.62                                    | 27.90             |
|          |   | 08/31/98     | 16.83                                    | 135.13                                    | 27.90             |
|          |   | 12/08/98     | 17.37                                    | 134.59                                    | 27.91             |
|          |   | 02/17/99     | 16.49                                    | 135.47                                    | 27.98             |
|          |   | 06/10/99     | 17.63                                    | 134.33                                    | 24.76             |
|          |   | 09/07/99     | 17.80                                    | 134.16                                    | 24.75             |
|          |   | 12/13/99     | 17.82                                    | 134.14                                    | 24.73             |
|          |   | 3/16/00      | 15.81                                    | 136.15                                    | 24.71             |
|          |   | 6/12/00      | 16.64                                    | 135.32                                    | 24.70             |
|          |   | 9/5/00       | 16.71                                    | 135.25                                    | 24.70             |
| 11/13/00 | 17.24                                       | 134.72       | 24.70                                    |   |                   |
| 2/26/01  | 15.83                                       | 136.13       | 24.70                                    |   |                   |
| 6/12/01  | 16.80                                       | 135.16       | 24.70                                    |   |                   |
| 9/21/01  | 17.30                                       | 134.66       | 24.71                                    |   |                   |

**Table 2**  
**Cumulative Groundwater Elevation Data**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID  | Top of Casing Elevation (Feet) <sup>1</sup> | Date Sounded | Depth to Groundwater (Feet) <sup>1</sup> | Groundwater Elevation (Feet) <sup>2</sup> | Well Depth (Feet) |
|----------|---|--------------|--|---|-------------------|
| MW-5     | 148.68                                      | 05/18/93     | 15.72                                    | 132.96                                    | -                 |
|          |   | 08/11/93     | 16.42                                    | 132.26                                    | 28.43             |
|          |   | 11/05/93     | 16.92                                    | 131.76                                    | 28.43             |
|          |   | 03/01/94     | 15.54                                    | 133.14                                    | 28.11             |
|          |   | 06/02/94     | 16.19                                    | 132.49                                    | 28.12             |
|          |   | 09/09/94     | 16.87                                    | 131.81                                    | 28.13             |
|          |   | 12/20/94     | 15.87                                    | 132.84                                    | 28.10             |
|          |   | 03/08/95     | 15.11                                    | 133.57                                    | 27.97             |
|          |   | 06/14/95     | 15.69                                    | 132.99                                    | 27.97             |
|          |   | 09/26/95     | 16.46                                    | 132.22                                    | 27.91             |
|          |   | 12/27/95     | 15.91                                    | 132.77                                    | 27.89             |
|          |   | 03/26/96     | 14.31                                    | 134.37                                    | 27.89             |
|          |   | 06/05/96     | 15.43                                    | 133.25                                    | 27.88             |
|          |   | 09/16/96     | 16.52                                    | 132.16                                    | 27.89             |
|          |   | 12/02/96     | 16.05                                    | 132.63                                    | 27.88             |
|          |   | 03/10/97     | 14.80                                    | 133.88                                    | 27.89             |
|          |   | 06/12/97     | 15.95                                    | 132.78                                    | 27.90             |
|          |   | 09/29/97     | 16.33                                    | 132.35                                    | 27.91             |
|          |   | 12/01/97     | 15.48                                    | 133.20                                    | 27.90             |
|          |   | 03/19/98     | 13.16                                    | 135.52                                    | 27.91             |
|          |   | 05/28/98     | 14.04                                    | 134.64                                    | 27.90             |
|          |   | 08/31/98     | 14.81                                    | 133.87                                    | 27.90             |
|          |   | 12/08/98     | 15.75                                    | 132.93                                    | 27.91             |
|          |   | 02/17/99     | 14.80                                    | 133.88                                    | 27.98             |
|          |   | 06/10/99     | 15.54                                    | 133.14                                    | 24.76             |
|          |   | 09/07/99     | 16.01                                    | 132.67                                    | 24.75             |
|          |   | 12/13/99     | 16.21                                    | 132.47                                    | 24.73             |
|          |   | 3/16/00      | 14.35                                    | 134.33                                    | 29.60             |
|          |   | 6/12/00      | 15.21                                    | 133.47                                    | 29.61             |
|          |   | 9/5/00       | 15.80                                    | 132.88                                    | 29.60             |
| 11/13/00 | 16.21                                       | 132.47       | 29.60                                    |   |                   |
| 2/26/01  | 14.71                                       | 133.97       | 29.61                                    |   |                   |
| 6/12/01  | 15.72                                       | 132.96       | 29.60                                    |   |                   |
| 9/21/01  | 16.21                                       | 132.47       | 29.60                                    |   |                   |



**Table 2**  
**Cumulative Groundwater Elevation Data**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID  | Top of Casing Elevation (Feet) <sup>1</sup> | Date Sounded | Depth to Groundwater (Feet) <sup>1</sup> | Groundwater Elevation (Feet) <sup>2</sup> | Well Depth (Feet) |
|----------|---|--------------|--|---|-------------------|
| MW-6     | 153.96                                      | 05/18/93     | 20.80                                    | 133.16                                    | -                 |
|          |   | 08/11/93     | 21.64                                    | 132.32                                    | 31.15             |
|          |   | 11/05/93     | 22.11                                    | 131.85                                    | 31.15             |
|          |   | 03/01/94     | 20.80                                    | 133.16                                    | 29.96             |
|          |   | 06/02/94     | 21.37                                    | 132.59                                    | 29.98             |
|          |   | 09/09/94     | 22.05                                    | 131.91                                    | 29.96             |
|          |   | 12/20/94     | 21.06                                    | 132.90                                    | 29.89             |
|          |   | 03/08/95     | 20.29                                    | 133.67                                    | 29.67             |
|          |   | 06/14/95     | 20.81                                    | 133.15                                    | 29.65             |
|          |   | 09/26/95     | 21.62                                    | 132.34                                    | 29.66             |
|          |   | 12/27/95     | 21.12                                    | 132.84                                    | 29.63             |
|          |   | 03/26/96     | 19.50                                    | 134.46                                    | 29.60             |
|          |   | 06/05/96     | 20.56                                    | 133.40                                    | 29.63             |
|          |   | 09/16/96     | 21.70                                    | 132.26                                    | 29.65             |
|          |   | 12/02/96     | 21.25                                    | 132.71                                    | 29.66             |
|          |   | 03/10/97     | 20.16                                    | 133.80                                    | 29.64             |
|          |   | 06/12/97     | 21.16                                    | 132.80                                    | 29.62             |
|          |   | 09/29/97     | 21.51                                    | 132.45                                    | 29.62             |
|          |   | 12/01/97     | 20.89                                    | 133.07                                    | 29.61             |
|          |   | 03/19/98     | 18.71                                    | 135.25                                    | 29.60             |
|          |   | 05/28/98     | 19.99                                    | 133.97                                    | 29.62             |
|          |   | 08/31/98     | 20.81                                    | 133.15                                    | 29.63             |
|          |   | 12/08/98     | 21.00                                    | 132.96                                    | 29.64             |
|          |   | 02/17/99     | 19.54                                    | 134.42                                    | 29.63             |
|          |   | 06/10/99     | 20.74                                    | 133.22                                    | 27.98             |
|          |   | 09/07/99     | 21.23                                    | 132.73                                    | 27.98             |
|          |   | 12/13/99     | 21.22                                    | 132.74                                    | 27.98             |
|          |   | 3/16/00      | 18.79                                    | 135.17                                    | 27.99             |
|          |   | 6/12/00      | 20.49                                    | 133.47                                    | 27.99             |
|          |   | 9/5/00       | 20.95                                    | 133.01                                    | 27.98             |
| 11/13/00 | 21.44                                       | 132.52       | 27.98                                    |   |                   |
| 2/26/01  | 19.86                                       | 134.10       | 27.99                                    |   |                   |
| 6/12/01  | 20.91                                       | 133.05       | 27.98                                    |   |                   |
| 9/21/01  | 21.22                                       | 132.74       | 27.99                                    |   |                   |

**Table 2**  
**Cumulative Groundwater Elevation Data**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID  | Top of Casing Elevation (Feet) <sup>1</sup> | Date Sounded          | Depth to Groundwater (Feet) <sup>1</sup> | Groundwater Elevation (Feet) <sup>2</sup> | Well Depth (Feet) |
|----------|---|-----------------------|--|---|-------------------|
| MW-7     | 156.09                                      | 05/18/93              | 22.64                                    | 133.45                                    | -                 |
|          |   | 08/11/93              | 23.25                                    | 132.84                                    | 30.75             |
|          |   | 11/05/93              | 23.93                                    | 132.16                                    | 30.75             |
|          |   | 03/01/94              | 22.72                                    | 133.37                                    | 30.11             |
|          |   | 06/02/94              | 23.22                                    | 132.87                                    | 30.12             |
|          |   | 09/09/94              | 23.90                                    | 132.19                                    | 30.12             |
|          |   | 12/20/94              | 22.98                                    | 133.11                                    | 30.10             |
|          |   | 03/08/95              | 22.14                                    | 133.95                                    | 29.91             |
|          |   | 06/14/95              | 22.61                                    | 133.48                                    | 29.91             |
|          |   | 09/26/95              | 23.43                                    | 132.66                                    | 29.90             |
|          |   | 12/27/95              | 23.01                                    | 133.08                                    | 29.90             |
|          |   | 03/26/96              | 21.32                                    | 134.77                                    | 29.87             |
|          |   | 06/05/96              | 22.37                                    | 133.72                                    | 29.91             |
|          |   | 09/16/96              | 23.51                                    | 132.58                                    | 29.90             |
|          |   | 12/02/96              | 23.08                                    | 133.01                                    | 29.91             |
|          |   | 03/10/97              | 21.94                                    | 134.15                                    | 29.90             |
|          |   | 06/12/97              | 22.96                                    | 133.13                                    | 29.88             |
|          |   | 09/29/97              | 23.35                                    | 132.74                                    | 29.87             |
|          |   | 12/01/97              | 22.68                                    | 133.41                                    | 29.88             |
|          |   | 03/19/98              | 20.52                                    | 135.57                                    | 29.88             |
| 05/28/98 | 21.76                                       | 134.33                | 29.88                                    |   |                   |
| 08/31/98 | 22.66                                       | 133.43                | 29.86                                    |   |                   |
|          |   | 12/08/98 <sup>3</sup> |  |   |                   |

**Table 2**  
**Cumulative Groundwater Elevation Data**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID  | Top of Casing Elevation (Feet) <sup>1</sup> | Date Sounded          | Depth to Groundwater (Feet) <sup>1</sup> | Groundwater Elevation (Feet) <sup>2</sup> | Well Depth (Feet) |
|----------|---|-----------------------|--|---|-------------------|
| MW-8     | 158.04                                      | 05/18/93              | 21.55                                    | 136.49                                    | -                 |
|          |   | 08/11/93              | 22.43                                    | 135.61                                    | 34.82             |
|          |   | 11/05/93              | 23.00                                    | 135.04                                    | 34.82             |
|          |   | 03/01/94              | 22.05                                    | 135.99                                    | 34.04             |
|          |   | 06/02/94              | 22.29                                    | 135.75                                    | 34.04             |
|          |   | 09/09/94              | 22.99                                    | 135.05                                    | 34.04             |
|          |   | 12/20/94              | 22.14                                    | 135.90                                    | 33.98             |
|          |   | 03/08/95              | 21.25                                    | 136.79                                    | 34.48             |
|          |   | 06/14/95              | 21.70                                    | 136.34                                    | 34.49             |
|          |   | 09/26/95              | 22.29                                    | 135.75                                    | 34.40             |
|          |   | 12/27/95              | 21.96                                    | 136.08                                    | 34.43             |
|          |   | 03/26/96              | 20.48                                    | 137.56                                    | 34.42             |
|          |   | 06/05/96              | 21.50                                    | 136.54                                    | 34.41             |
|          |   | 09/16/96              | 22.38                                    | 135.66                                    | 34.43             |
|          |   | 12/02/96              | 22.39                                    | 135.65                                    | 34.42             |
|          |   | 03/10/97              | 20.89                                    | 137.16                                    | 34.43             |
|          |   | 06/12/97              | 21.80                                    | 136.24                                    | 34.42             |
|          |   | 09/29/97              | 22.81                                    | 135.23                                    | 34.40             |
|          |   | 12/01/97              | 21.70                                    | 136.34                                    | 34.41             |
|          |   | 03/19/98              | 19.35                                    | 138.69                                    | 34.42             |
| 05/28/98 | 20.52                                       | 137.52                | 34.41                                    |   |                   |
| 08/31/98 | 21.40                                       | 136.64                | 34.40                                    |   |                   |
|          |   | 12/08/98 <sup>3</sup> |  |   |                   |

**NOTES:**

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

2 : Elevation reference to mean sea level.

Well Depth : Measured from top of casing to bottom of well.

3 : Well abandoned.

**Table 3**  
**Summary of Groundwater Analytical Results**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID | Sample Date | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) |
|---------|-------------|-------------|-------------|--------------|----------------|----------------|---------------------|----------------|-------------|
| MW-1    | 03/27/92    | 5,600       | <50         | <50          | 760            | 900            | 230                 | 1,100          | -           |
|         | 06/04/92    | 2,600       | <800        | NA           | 270            | 57             | 230                 | 440            | -           |
|         | 09/23/92    | 3,400       | NA          | NA           | 480            | 430            | 110                 | 550            | -           |
|         | 11/12/92    | 2,700       | NA          | NA           | 5.8            | <5.0           | 140                 | 340            | -           |
|         | 02/02/93    | 8,500       | NA          | NA           | 760            | 770            | 250                 | 1,200          | -           |
|         | 05/07/93    | 7,700       | NA          | NA           | 970            | 630            | 280                 | 1,500          | -           |
|         | 08/11/93    | 11,000      | NA          | NA           | 1,400          | 1,000          | 280                 | 1,600          | -           |
|         | 11/05/93    | 36,000      | NA          | NA           | 6,200          | 4,700          | 1,400               | 7,100          | -           |
|         | 03/01/94    | 3,800       | NA          | NA           | 580            | 490            | 110                 | 620            | -           |
|         | 06/02/94    | 8,900       | NA          | NA           | 1,900          | 1,200          | 480                 | 2,100          | -           |
|         | 09/09/94    | 4,300       | NA          | NA           | 740            | 290            | 200                 | 630            | -           |
|         | 12/20/94    | 3,900       | NA          | NA           | 550            | 260            | 150                 | 510            | -           |
|         | 03/08/95    | 8,100       | NA          | NA           | 1,100          | 540            | 250                 | 1,100          | -           |
|         | 06/14/95    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|         | 09/26/95    | 8,600       | NA          | NA           | 2,100          | 550            | 420                 | 1,300          | -           |
|         | 12/27/95    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|         | 03/26/96    | 21,000      | NA          | NA           | 7,000          | 2,700          | 590                 | 7,000          | -           |
|         | 06/05/96    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|         | 09/16/96    | 13,000      | NA          | NA           | 3,200          | 770            | 420                 | 2,900          | 1,400       |
|         | 12/02/96    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|         | 03/10/97    | 30,000      | NA          | NA           | 7,300          | 1,900          | 850                 | 7,100          | 1,100       |
|         | 06/12/97    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|         | 09/29/97    | 25,000      | NA          | NA           | 840            | 5,500          | 920                 | 920            | 4,000       |
|         | 12/01/97    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|         | 03/19/98    | 90,000      | NA          | NA           | 15,000         | 7,000          | 3,300               | 20,000         | <1,500      |
|         | 05/28/98    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|         | 08/31/98    | 50,000      | NA          | NA           | 9,900          | 1,500          | 2,100               | 9,400          | 890         |
|         | 12/08/98    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|         | 02/17/99    | 30,000      | NA          | NA           | 8,000          | 1,100          | 2,200               | 10,000         | 720         |
|         | 06/10/99    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|         | 09/07/99    | 37,000      | NA          | NA           | 13,000         | 410            | 2,000               | 10,000         | 570         |
|         | 12/13/99    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|         | 3/16/00     | 59,000      | NA          | NA           | 9,600          | 430            | 2,100               | 9,200          | 730         |
|         | 6/12/00     | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|         | 9/5/00      | 49,000      | NA          | NA           | 8,000          | 230            | 2,100               | 6,400          | 740         |
|         | 11/13/00    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|         | 2/26/01     | 56,000      | NA          | NA           | 7,000          | 240            | 2,000               | 6,800          | 620         |
|         | 6/12/01     | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|         | 9/21/01     | 23,000      | NA          | NA           | 4,600          | 75             | 1,200               | 2,300          | 450         |

**Table 3**  
**Summary of Groundwater Analytical Results**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID  | Sample Date | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) |
|----------|-------------|-------------|-------------|--------------|----------------|----------------|---------------------|----------------|-------------|
| MW-2     | 03/27/92    | 18,000      | <50         | <50          | 2,400          | 2,300          | 870                 | 3,300          | -           |
|          | 06/04/92    | 14,000      | <5,000      | NA           | 1,900          | 1,700          | 580                 | 2,300          | -           |
|          | 09/23/92    | 22,000      | NA          | NA           | 2,100          | 1,500          | 760                 | 2,900          | -           |
|          | 11/12/92    | 29,000      | NA          | NA           | 2,400          | 860            | 540                 | 3,500          | -           |
|          | 02/02/93    | 24,000      | NA          | NA           | 2,700          | 1,900          | 590                 | 2,600          | -           |
|          | 05/07/93    | 19,000      | NA          | NA           | 1,800          | 1,300          | 460                 | 2,600          | -           |
|          | 08/11/93    | 23,000      | NA          | NA           | 2,300          | 1,500          | 550                 | 2,300          | -           |
|          | 11/05/93    | 30,000      | NA          | NA           | 3,100          | 2,900          | 860                 | 3,700          | -           |
|          | 03/01/94    | 13,000      | NA          | NA           | 1,500          | 490            | 350                 | 1,100          | -           |
|          | 06/02/94    | 12,000      | NA          | NA           | 2,000          | 790            | 460                 | 1,300          | -           |
|          | 09/09/94    | 13,000      | NA          | NA           | 1,800          | 660            | 440                 | 1,000          | -           |
|          | 12/20/94    | 16,000      | NA          | NA           | 2,300          | 1,000          | 650                 | 1,900          | -           |
|          | 03/08/95    | 16,000      | NA          | NA           | 2,200          | 1,000          | 550                 | 2,100          | -           |
|          | 06/14/95    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|          | 09/26/95    | 18,000      | NA          | NA           | 2,500          | 1,000          | 770                 | 2,700          | -           |
|          | 12/27/95    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|          | 03/26/96    | 33,000      | NA          | NA           | 4,200          | 2,600          | 1,000               | 5,000          | -           |
|          | 06/05/96    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|          | 09/16/96    | 19,000      | NA          | NA           | 2,600          | 490            | 560                 | 2,000          | 940         |
|          | 12/02/96    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|          | 03/10/97    | 23,000      | NA          | NA           | 3,700          | 870            | 650                 | 3,000          | 1,400       |
|          | 06/12/97    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|          | 09/29/97    | 30,000      | NA          | NA           | 4,900          | 880            | 990                 | 3,800          | 1,400       |
|          | 12/01/97    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|          | 03/19/98    | 72,000      | NA          | NA           | 14,000         | 9,500          | 2,300               | 11,000         | <1,500      |
|          | 05/28/98    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|          | 08/31/98    | 29,000      | NA          | NA           | 4,900          | 1,600          | 960                 | 3,900          | 890         |
|          | 12/08/98    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|          | 02/17/99    | 26,000      | NA          | NA           | 5,200          | 930            | 1,200               | 4,400          | 640         |
|          | 06/10/99    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|          | 09/07/99    | 32,000      | NA          | NA           | 5,700          | 600            | 1,200               | 3,500          | 1,100       |
|          | 12/13/99    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|          | 3/16/00     | 38,000      | NA          | NA           | 4,900          | 780            | 1,100               | 3,700          | 870         |
|          | 6/12/00     | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
| 9/5/00   | 21,000      | NA          | NA          | 3,400        | 490            | 730            | 2,200               | 1,000          |             |
| 11/13/00 | NS          | NS          | NS          | NS           | NS             | NS             | NS                  | NS             |             |
| 2/26/01  | 33,000      | NA          | NA          | 5,200        | 260            | 1,400          | 3,200               | 740            |             |
| 6/12/01  | NS          | NS          | NS          | NS           | NS             | NS             | NS                  | NS             |             |
| 9/21/01  | 63,000      | NA          | NA          | 4,400        | 180            | 1,000          | 2,000               | 730            |             |

**Table 3**  
**Summary of Groundwater Analytical Results**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID              | Sample Date | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) |
|----------------------|-------------|-------------|-------------|--------------|----------------|----------------|----------------------|----------------|-------------|
| MW-3                 | 03/27/92    | 160         | <50         | <50          | 9.2            | 4.8            | 10                   | 23             | -           |
|                      | 06/04/92    | 120         | <50         | NA           | 7.5            | 2.7            | 0.5                  | 15             | -           |
|                      | 09/23/92    | 220         | NA          | NA           | 8.3            | 4.3            | 62                   | 19             | -           |
|                      | 11/12/92    | 230         | NA          | NA           | 12             | 5.5            | 77                   | 19             | -           |
|                      | 02/02/93    | 86          | NA          | NA           | 2.4            | 0.71           | 27                   | 6.2            | -           |
|                      | 05/07/93    | 140         | NA          | NA           | 2.6            | 1.2            | 39                   | 8.4            | -           |
|                      | 08/11/93    | 490         | NA          | NA           | 15             | 8.1            | 14                   | 37             | -           |
|                      | 11/05/93    | 820         | NA          | NA           | 45             | 24             | 34                   | 93             | -           |
|                      | 03/01/94    | 410         | NA          | NA           | 7.4            | 2.7            | 56                   | 10             | -           |
|                      | 06/02/94    | 440         | NA          | NA           | 13             | 4.9            | 14                   | 31             | -           |
|                      | 09/09/94    | 620         | NA          | NA           | 12             | 4.8            | 97                   | 20             | -           |
|                      | 12/20/94    | 770         | NA          | NA           | 24             | 11             | 16                   | 36             | -           |
|                      | 03/08/95    | 300         | NA          | NA           | 6.1            | 0.97           | 4.8                  | 7.5            | -           |
|                      | 06/14/95    | NS          | NS          | NS           | NS             | NS             | NS                   | NS             | -           |
|                      | 09/26/95    | 130         | NA          | NA           | 4.8            | 1.6            | 4.8                  | 9.4            | -           |
|                      | 12/27/95    | NS          | NS          | NS           | NS             | NS             | NS                   | NS             | -           |
|                      | 03/26/96    | <50         | NA          | NA           | <0.50          | <0.50          | <0.50                | <0.50          | -           |
|                      | 06/05/96    | NS          | NS          | NS           | NS             | NS             | NS                   | NS             | -           |
|                      | 09/16/96    | 170         | NA          | NA           | 10             | 2.9            | 44                   | 15             | <5.0        |
|                      | 12/02/96    | NS          | NS          | NS           | NS             | NS             | NS                   | NS             | NS          |
|                      | 03/10/97    | 84          | NA          | NA           | 2.3            | <0.50          | 14                   | 2.6            | <5.0        |
|                      | 06/12/97    | NS          | NS          | NS           | NS             | NS             | NS                   | NS             | NS          |
|                      | 09/29/97    | 740         | NA          | NA           | 61             | 9.8            | 42                   | 61             | <5.0        |
|                      | 12/01/97    | NS          | NS          | NS           | NS             | NS             | NS                   | NS             | NS          |
|                      | 03/19/98    | <50         | NA          | NA           | <0.50          | <0.50          | <0.50                | <0.50          | <5.0        |
|                      | 05/28/98    | NS          | NS          | NS           | NS             | NS             | NS                   | NS             | NS          |
|                      | 08/31/98    | 320         | NA          | NA           | 6.7            | 1.0            | 10                   | 9.3            | 3.4         |
|                      | 12/08/98    | NS          | NS          | NS           | NS             | NS             | NS                   | NS             | NS          |
|                      | 02/17/99    | 310         | NA          | NA           | <5.0           | 8.6            | 1.8                  | 13             | 14          |
|                      | 06/10/99    | NS          | NS          | NS           | NS             | NS             | NS                   | NS             | NS          |
|                      | 09/07/99    | 99          | NA          | NA           | 4.2            | 0.51           | 4.0                  | 3.0            | <5.0        |
|                      | 12/13/99    | NS          | NS          | NS           | NS             | NS             | NS                   | NS             | NS          |
|                      | 3/16/00     | <50         | NA          | NA           | <0.50          | <0.50          | <0.50                | <0.50          | <5.0        |
|                      | 6/12/00     | NS          | NA          | NA           | NS             | NS             | NS                   | NS             | NS          |
|                      | 9/5/00      | 240         | NA          | NA           | 3.0            | 0.53           | 9.6                  | 4.0            | <5.0        |
|                      | 11/13/00    | NS          | NA          | NA           | NS             | NS             | NS                   | NS             | NS          |
| 2/26/01              | 100         | NA          | NA          | 0.84         | <0.50          | 3.5            | 1.7                  | 0.84           |             |
| 6/12/01              | NS          | NS          | NS          | NS           | NS             | NS             | NS                   | NS             |             |
| 8/27/01 <sup>3</sup> | -           | -           | -           | -            | -              | -              | -                    | -              |             |

**Table 3**  
**Summary of Groundwater Analytical Results**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID              | Sample Date | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) |
|----------------------|-------------|-------------|-------------|--------------|----------------|----------------|---------------------|----------------|-------------|
| MW-4                 | 05/18/93    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 08/11/93    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 11/05/93    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 03/01/94    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 06/02/94    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 09/09/94    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 12/20/94    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 03/08/95    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                      | 06/14/95    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                      | 09/26/95    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                      | 12/27/95    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                      | 03/26/96    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                      | 06/05/96    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                      | 09/16/96    | <50         | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | <5.0        |
|                      | 12/02/96    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 03/10/97    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 06/12/97    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 09/29/97    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 12/01/97    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 03/19/98    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 05/28/98    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 08/31/98    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 12/08/98    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 02/17/99    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 06/10/99    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 09/07/99    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 12/13/99    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 3/16/00     | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 6/12/00     | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                      | 9/5/00      | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
| 11/13/00             | NS          | NS          | NS          | NS           | NS             | NS             | NS                  | NS             |             |
| 2/26/01              | NS          | NS          | NS          | NS           | NS             | NS             | NS                  | NS             |             |
| 6/12/01              | NS          | NS          | NS          | NS           | NS             | NS             | NS                  | NS             |             |
| 8/27/01 <sup>3</sup> | -           | -           | -           | -            | -              | -              | -                   | -              | -           |
| MW-5                 | 05/18/93    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 08/11/93    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 11/05/93    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 03/01/94    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 06/02/94    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 09/09/94    | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |

**Table 3**  
**Summary of Groundwater Analytical Results**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID              | Sample Date      | TPHg (µg/L)      | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) |
|----------------------|------------------|------------------|-------------|--------------|----------------|----------------|---------------------|----------------|-------------|
| MW-5<br>(cont.)      | 12/20/94         | <50              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 03/08/95         | <50              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 06/14/95         | <50              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                      | 09/26/95         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | -           |
|                      | 12/27/95         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | -           |
|                      | 03/26/96         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | -           |
|                      | 06/05/96         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 15          |
|                      | 09/16/96         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 20          |
|                      | 12/02/96         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 12          |
|                      | 03/10/97         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 7.0         |
|                      | 06/12/97         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 7.2         |
|                      | 09/29/97         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | <5.0        |
|                      | 12/01/97         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | <5.0        |
|                      | 03/19/98         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | <5.0        |
|                      | 05/28/98         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | <5.0        |
|                      | 08/31/98         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | <0.50       |
|                      | 12/08/98         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | <5.0        |
|                      | 02/17/99         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | <5.0        |
|                      | 06/10/99         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | <5.0        |
|                      | 09/07/99         | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | <5.0        |
| 12/13/99             | <50              | NA               | NA          | <0.50        | <0.50          | <0.50          | <0.50               | <5.0           |             |
| 3/16/00              | <50              | NA               | NA          | <0.50        | <0.50          | <0.50          | <0.50               | <5.0           |             |
| 6/12/00              | <50              | NA               | NA          | <0.50        | <0.50          | <0.50          | <0.50               | <5.0           |             |
| 9/5/00               | <50              | NA               | NA          | <0.50        | <0.50          | <0.50          | <0.50               | <5.0           |             |
| 11/13/00             | <50              | NA               | NA          | <0.50        | <0.50          | <0.50          | <0.50               | <0.50          |             |
| 2/26/01              | <50              | NA               | NA          | <0.50        | <0.50          | <0.50          | <0.50               | <0.50          |             |
| 6/12/01              | <50              | NA               | NA          | <0.50        | <0.50          | <0.50          | <0.50               | <0.50          |             |
| 8/27/01 <sup>3</sup> | -                | -                | -           | -            | -              | -              | -                   | -              | -           |
| MW-6                 | 05/18/93         | 170              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 08/11/93         | 78               | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 11/05/93         | 170              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 03/01/94         | 210              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 06/02/94         | 190              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 09/09/94         | 140              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 12/20/94         | 210              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 03/08/95         | 180 <sup>1</sup> | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 06/14/95         | 220 <sup>1</sup> | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 09/26/95         | 110 <sup>1</sup> | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          |             |
|                      | 12/27/95         | 130 <sup>1</sup> | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          |             |
| 03/08/95             | 100 <sup>1</sup> | NA               | NA          | <0.50        | <0.50          | <0.50          | <0.50               |                |             |



**Table 3**  
**Summary of Groundwater Analytical Results**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID              | Sample Date | TPHg (µg/L)      | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) |
|----------------------|-------------|------------------|-------------|--------------|----------------|----------------|---------------------|----------------|-------------|
| MW-6<br>(cont.)      | 06/05/96    | 100 <sup>1</sup> | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 430         |
|                      | 09/16/96    | 170              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 430         |
|                      | 12/02/96    | 160              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 160         |
|                      | 03/10/97    | 140              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 390         |
|                      | 06/12/97    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 330         |
|                      | 09/29/97    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 130         |
|                      | 12/01/97    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 200         |
|                      | 03/19/98    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 240         |
|                      | 05/28/98    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 290         |
|                      | 08/31/98    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 290         |
|                      | 12/08/98    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 230         |
|                      | 02/17/99    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 200         |
|                      | 06/10/99    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 290         |
|                      | 09/07/99    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 230         |
|                      | 12/13/99    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 180         |
|                      | 3/16/00     | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 260         |
|                      | 6/12/00     | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 160         |
|                      | 9/5/00      | <50              | NA          | NA           | <0.50          | 0.50           | <0.50               | 0.81           | 170         |
|                      | 11/13/00    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 190         |
|                      | 2/26/01     | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 130         |
| 6/12/01              | <50         | NA               | NA          | <0.50        | <0.50          | <0.50          | <0.50               | 96             |             |
| 8/27/01 <sup>2</sup> | -           | -                | -           | -            | -              | -              | -                   | -              |             |
| MW-7                 | 05/18/93    | <50              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 08/11/93    | <50              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 11/05/93    | <50              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 03/01/94    | 60               | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 06/02/94    | <50              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 09/09/94    | <50              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 12/20/94    | <50              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 03/08/95    | <50              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 06/14/95    | <50              | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           |             |
|                      | 09/26/95    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          |             |
|                      | 12/27/95    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          |             |
|                      | 03/08/95    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          |             |
|                      | 06/05/96    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 20          |
|                      | 09/16/96    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 26          |
|                      | 12/02/96    | 140              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 140         |
|                      | 03/10/97    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 29          |
|                      | 06/12/97    | <50              | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 28          |
| 09/29/97             | <50         | NA               | NA          | <0.50        | <0.50          | <0.50          | <0.50               | 27             |             |

**Table 3**  
**Summary of Groundwater Analytical Results**  
**Former Beacon Station # 12574 - Castro Valley, California**

| Well ID               | Sample Date           | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) |
|-----------------------|-----------------------|-------------|-------------|--------------|----------------|----------------|---------------------|----------------|-------------|
| MW-7<br>(cont.)       | 12/01/97              | <50         | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 29          |
|                       | 03/19/98              | <50         | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 6.0         |
|                       | 05/28/98              | <50         | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 25          |
|                       | 08/31/98              | <50         | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | 20          |
|                       | 12/08/98 <sup>2</sup> |             |             |              |                |                |                     |                |             |
| MW-8                  | 05/18/93              | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                       | 08/11/93              | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                       | 11/05/93              | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                       | 03/01/94              | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                       | 06/02/94              | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                       | 09/09/94              | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                       | 12/20/94              | <50         | NA          | NA           | <0.5           | <0.5           | <0.5                | <0.5           | -           |
|                       | 03/08/95              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                       | 06/14/95              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                       | 09/26/95              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                       | 12/27/95              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                       | 03/08/95              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                       | 06/05/96              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | -           |
|                       | 09/16/96              | <50         | NA          | NA           | <0.50          | <0.50          | <0.50               | <0.50          | <5.0        |
|                       | 12/02/96              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                       | 03/10/97              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                       | 06/12/97              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                       | 09/29/97              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                       | 12/01/97              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
|                       | 03/19/98              | NS          | NS          | NS           | NS             | NS             | NS                  | NS             | NS          |
| 05/28/98              | NS                    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             |             |
| 08/31/98              | NS                    | NS          | NS          | NS           | NS             | NS             | NS                  | NS             |             |
| 12/08/98 <sup>2</sup> |                       |             |             |              |                |                |                     |                |             |

**Notes:**

- < : Below indicated detection limit.
- NS : Not sampled.
- NA: Not Analyzed.
- <sup>1</sup> : Product not typical gasoline.
- <sup>2</sup> : Well abandoned
- <sup>3</sup> : As directed by Alameda County, Monitoring wells not sampled.

**APPENDIX A**

***Ultramar Field Sampling Procedures***

## APPENDIX A - ULTRAMAR FIELD PROCEDURES

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

### Ground Water 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 Ground Water

Prior to purging and sampling ground water 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 electric 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 ground water being removed is relatively free of suspended solids. After purging, ground water 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 volume of water, the ground water 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 formation water and a ground water sample is collected. Ground water 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 ground water sample will be collected. If free product persists throughout the purging process, a final free product thickness measurement will be taken and a ground water sample will not be collected.

Ground water 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. Ground water 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**

*Water Sample Logs - Doulos Environmental*

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

Project Address: Beacon # 12574 22315 Redwood Rd.  
Castro Valley, Ca.

Date: 9-21-01

Project No.: 12574-24

Recorded by: \_\_\_\_\_

| Well No. | Time | Well Elev.<br>TOC | Depth to<br>Groundwater | Measured<br>Total Depth | Groundwater<br>Elevation | Depth to<br>Product | Product<br>Thickness | Comments |
|----------|------|-------------------|-------------------------|-------------------------|--------------------------|---------------------|----------------------|----------|
| MW-1     | 3:13 |                   | 23.40                   | 29.73                   |                          |                     |                      |          |
| MW-2     | 3:04 |                   | 21.63                   | 29.50                   |                          |                     |                      |          |
| MW-3     | 3:05 |                   | 22.06                   | 29.46                   |                          |                     |                      |          |
| MW-4     | 3:00 |                   | 17.30                   | 29.71                   |                          |                     |                      |          |
| MW-5     | 2:45 |                   | 16.21                   | 29.60                   |                          |                     |                      |          |
| MW-6     | 2:49 |                   | 21.22                   | 27.99                   |                          |                     |                      |          |
|          |      |                   |                         |                         |                          |                     |                      |          |
|          |      |                   |                         |                         |                          |                     |                      |          |
|          |      |                   |                         |                         |                          |                     |                      |          |
|          |      |                   |                         |                         |                          |                     |                      |          |
|          |      |                   |                         |                         |                          |                     |                      |          |
|          |      |                   |                         |                         |                          |                     |                      |          |
|          |      |                   |                         |                         |                          |                     |                      |          |
|          |      |                   |                         |                         |                          |                     |                      |          |
|          |      |                   |                         |                         |                          |                     |                      |          |
|          |      |                   |                         |                         |                          |                     |                      |          |
|          |      |                   |                         |                         |                          |                     |                      |          |

Notes:

Client: Ultramar  
 Site: Beacon #12574  
22315 Redwood Rd.  
Castro Valley, Ca.

Sampling Date: 9-21-01  
 Project No.: \_\_\_\_\_  
 Well Designation: MW-1

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): 3  
 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 Time: 3:13 Recharge Measurement Time: 4:51 Calculated purge: 16.4  
 Depth of well: 29.73 Depth to water: 24.01 Actual purge: 16.4  
 Depth to water: 23.40

Start purge: 3:40 Sampling time: 4:52

| Time | Temperature | E.C. | pH   | Turbidity | Volume |
|------|-------------|------|------|-----------|--------|
| 3:42 | 68.1        | 1170 | 7.52 |           | 1      |
| 3:44 | 68.2        | 1160 | 7.49 |           | 2      |
| 3:46 | 69.0        | 1142 | 7.40 |           | 3      |
| 3:49 | 69.2        | 1140 | 7.26 |           | 4      |

DRY

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 #12574  
22315 Redwood Rd.  
Castro Valley, Ca.

Sampling Date: 9-21-01  
 Project No.: \_\_\_\_\_  
 Well Designation: MW-2

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

time: \_\_\_\_\_ hours

Above TOC Below TOC

If no, see remarks

If no, see remarks

Height of well casing riser (in inches): 3

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: 3:09

Time: 4:36

Calculated purge: 20.4

Depth of well: 29.50

Depth to water: 22.06

Actual purge: 20.4

Depth to water: 21.63

Start purge: 3:20 Sampling time: 4:40

| Time | Temperature | E.C. | pH   | Turbidity | Volume |
|------|-------------|------|------|-----------|--------|
| 3:24 | 67.3        | 1146 | 7.33 |           | 1      |
| 3:26 | 67.4        | 1130 | 7.26 |           | 2      |
| 3:30 | 68.1        | 1121 | 7.22 |           | 3      |
| 3:33 | 68.2        | 1116 | 7.20 |           | 4      |
|      |             |      |      |           |        |

DRY

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**

***Laboratory Reports and Chain of Custody Documentation***



Report Number : 22521

Date : 10/9/2001

Richard Johnson  
BSK Sacramento  
3140 Gold Camp Drive, Suite 160  
Rancho Cordova, CA 95670

Subject : 2 Water Samples  
Project Name : CASTRO VALLEY 574  
Project Number :  
P.O. Number : 12574-20

Dear Mr. Johnson,

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 initial "J".

Joel Kiff



Report Number : 22521

Date : 10/9/2001

Project Name : **CASTROVALLEY 574**

Project Number :

Sample : **MW-1**

Matrix : Water

Lab Number : 22521-01

Sample Date :9/21/2001

| Parameter                          | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|---------------|
| <b>Benzene</b>                     | <b>4600</b>    | 20                     | ug/L       | EPA 8260B       | 10/5/2001     |
| <b>Toluene</b>                     | <b>75</b>      | 20                     | ug/L       | EPA 8260B       | 10/5/2001     |
| <b>Ethylbenzene</b>                | <b>1200</b>    | 20                     | ug/L       | EPA 8260B       | 10/5/2001     |
| <b>Total Xylenes</b>               | <b>2300</b>    | 20                     | ug/L       | EPA 8260B       | 10/5/2001     |
| <b>Methyl-t-butyl ether (MTBE)</b> | <b>450</b>     | 20                     | ug/L       | EPA 8260B       | 10/5/2001     |
| <b>TPH as Gasoline</b>             | <b>23000</b>   | 2000                   | ug/L       | EPA 8260B       | 10/5/2001     |
| Toluene - d8 (Surr)                | 94.7           |                        | % Recovery | EPA 8260B       | 10/5/2001     |
| 4-Bromofluorobenzene (Surr)        | 97.3           |                        | % Recovery | EPA 8260B       | 10/5/2001     |

Sample : **MW-2**

Matrix : Water

Lab Number : 22521-02

Sample Date :9/21/2001

| Parameter                          | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|---------------|
| <b>Benzene</b>                     | <b>4400</b>    | 20                     | ug/L       | EPA 8260B       | 10/4/2001     |
| <b>Toluene</b>                     | <b>180</b>     | 20                     | ug/L       | EPA 8260B       | 10/4/2001     |
| <b>Ethylbenzene</b>                | <b>1000</b>    | 20                     | ug/L       | EPA 8260B       | 10/4/2001     |
| <b>Total Xylenes</b>               | <b>2000</b>    | 20                     | ug/L       | EPA 8260B       | 10/4/2001     |
| <b>Methyl-t-butyl ether (MTBE)</b> | <b>730</b>     | 20                     | ug/L       | EPA 8260B       | 10/4/2001     |
| <b>TPH as Gasoline</b>             | <b>63000</b>   | 2000                   | ug/L       | EPA 8260B       | 10/4/2001     |
| Toluene - d8 (Surr)                | 103            |                        | % Recovery | EPA 8260B       | 10/4/2001     |
| 4-Bromofluorobenzene (Surr)        | 95.9           |                        | % Recovery | EPA 8260B       | 10/4/2001     |

Approved By: Joel Kiff

Report Number : 22521

Date : 10/9/2001

Project Name : **CASTROVALLEY 574**

Project Number :

22521 Quality Control Data - Method Blank

| Parameter                          | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|---------------|
| <b>Benzene</b>                     | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 10/2/2001     |
| <b>Toluene</b>                     | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 10/2/2001     |
| <b>Ethylbenzene</b>                | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 10/2/2001     |
| <b>Total Xylenes</b>               | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 10/2/2001     |
| <b>Methyl-t-butyl ether (MTBE)</b> | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 10/2/2001     |
| <b>TPH as Gasoline</b>             | < 50           | 50                     | ug/L       | EPA 8260B       | 10/2/2001     |
| Toluene - d8 (Surr)                | 101            |                        | % Recovery | EPA 8260B       | 10/2/2001     |
| 4-Bromofluorobenzene (Surr)        | 105            |                        | % Recovery | EPA 8260B       | 10/2/2001     |

  
Approved By: Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 22521

Date : 10/9/2001

Project Name : **CASTROVALLEY 574**

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 |
|----------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Spike Recovery Data  |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
| Benzene              | 22447-01      | <0.50        | 20.0        | 19.7             | 21.0                | 21.0                          | ug/L  | EPA 8260B       | 10/1/2001     | 105                          | 106                                    | 1.30                   | 70-130                             | 25                           |
| Toluene              | 22447-01      | <0.50        | 20.0        | 19.7             | 21.3                | 21.2                          | ug/L  | EPA 8260B       | 10/1/2001     | 107                          | 108                                    | 0.839                  | 70-130                             | 25                           |
| Tert-Butanol         | 22447-01      | <5.0         | 99.9        | 98.7             | 99.7                | 98.8                          | ug/L  | EPA 8260B       | 10/1/2001     | 199.8                        | 100                                    | 0.275                  | 70-130                             | 25                           |
| Methyl-t-Butyl Ether | 22447-01      | 3.3          | 20.0        | 19.7             | 17.8                | 17.9                          | ug/L  | EPA 8260B       | 10/1/2001     | 172.3                        | 74.0                                   | 2.39                   | 70-130                             | 25                           |

KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff

QC Report : Laboratory Control Sample (LCS)

Report Number : 22521

Date : 10/9/2001

Project Name : **CASTROVALLEY 574**

Project Number :

| Parameter            | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|----------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Benzene              | 20.0        | ug/L  | EPA 8260B       | 10/1/2001     | 102                | 70-130                   |
| Toluene              | 20.0        | ug/L  | EPA 8260B       | 10/1/2001     | 104                | 70-130                   |
| Tert-Butanol         | 100         | ug/L  | EPA 8260B       | 10/1/2001     | 97.6               | 70-130                   |
| Methyl-t-Butyl Ether | 20.0        | ug/L  | EPA 8260B       | 10/1/2001     | 93.0               | 70-130                   |

KIFF ANALYTICAL, LLC

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

Approved By:

  
Joel Kiff

Project Manager: BSK  
 Company/Address:

Phone No.:  
 FAX No.:

## Chain-of-Custody Record and Analysis Request

Project Number: P.O. No.: 12574-20  
 Project Name/Location: CACTO VALLEY 574

Email Address:  
 .pdf  .xls  .doc  other  
 Sampler Signature: Edgar Clivette

### Analysis Request

TAT For Lab Use Only

| Sample Designation | Sampling |      | Container (Type/Amount) |        |  |  | Method Preserved |                  |     |      | Matrix     | Analysis Request |                                 |                       |                          |                           |                                   |                                   |                      |                      |  |                       | TAT                              |                   |                      |  |  |  |  |                              |
|--------------------|----------|------|-------------------------|--------|--|--|------------------|------------------|-----|------|------------|------------------|---------------------------------|-----------------------|--------------------------|---------------------------|-----------------------------------|-----------------------------------|----------------------|----------------------|--|-----------------------|----------------------------------|-------------------|----------------------|--|--|--|--|------------------------------|
|                    | Date     | Time | 40 ml VOA               | SLEEVE |  |  | HCl              | HNO <sub>3</sub> | ICE | NONE | WATER/SOIL | BTEX (8021B)     | BTEX/TPH Gas/MTBE (8021B/MB015) | TPH as Diesel (MB015) | TPH as Motor Oil (MB015) | TPH Gas/BTEX/MTBE (8260B) | 5 Oxygenates/TPH Gas/BTEX (8260B) | 7 Oxygenates/TPH Gas/BTEX (8260B) | 5 Oxygenates (8260B) | 7 Oxygenates (8260B) | Lead Scav. (1,2 DCA & 1,2 EDB - 8260B) | EPA 8260B (Full List) | Volatile Halocarbons (EPA 8260B) | Lead (7421/239.2) | TOTAL (X) W.E.T. (X) |  |  |  |  |                              |
| MW-1               | 9-21-01  | 4:52 | 3                       |        |  |  | X                | X                |     |      | W          |                  |                                 |                       | X                        |                           |                                   |                                   |                      |                      |  |                       |                                  |                   |                      |  |  |  |  | 12 hr/24 hr/48 hr/72 hr/1 wk |
| MW-2               | ✓        | 4:40 | 3                       |        |  |  | X                | X                |     |      | W          |                  |                                 |                       | X                        |                           |                                   |                                   |                      |                      |  |                       |                                  |                   |                      |  |  |  |  | 12 hr/24 hr/48 hr/72 hr/1 wk |

Relinquished by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: 12/29/01 Time: 1:30

Received by: \_\_\_\_\_  
 Received by: \_\_\_\_\_  
 Received by Laboratory: KIFF  
 Bill to: JOE ALDRIDGE