

January 17, 1997

3018.95-021

Mr. Dale Klettke  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway  
Alameda, California 94501

Subject: Quarterly Groundwater Monitoring Report for the Period from July 1 to September 30, 1996, 5050 Coliseum Way and 750-50th Avenue, Oakland, California

Dear Mr. Klettke:

This quarterly report is submitted by Levine-Fricke-Recon Inc. (LFR; formerly Levine-Fricke, Inc. and Recon Environmental) on behalf of Volvo GM Heavy Truck Corporation for the subject site. During this quarterly period, depth-to-water measurements were collected in 21 monitoring wells and groundwater samples were collected from 20 wells.

If you have any questions regarding this report, please call me at (510) 652-4500) or Mr. Robert Whelen of Volvo GM at (910) 279-2544).

Sincerely,



Kathleen A. Isaacson, R.G.  
Principal Hydrogeologist

Enclosure

cc: Sumadhu Arigala, Regional Water Quality Control Board  
Bob Whelen, Volvo GM Heavy Truck Corp.  
Martha Boyd, Volvo GM Heavy Truck Corp.

ENVIRONMENTAL  
PROTECTION

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Quarterly Groundwater Monitoring Report for the  
Period from July 1 to September 30, 1996  
5050 Coliseum Way and 750-50th Avenue  
Oakland, California

SPD  
5/84  
January 17, 1996  
3018.95-021

Prepared for  
Volvo GM Heavy Truck Corporation  
7900 National Service Road  
P.O. Box 26115  
Greensboro, North Carolina 27402-6115

 Levine-Fricke-Recon  
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

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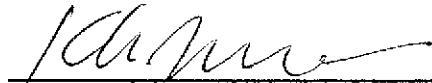
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## CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a Levine·Fricke California Registered Geologist.



Kathleen A. Isaacson  
Principal Hydrogeologist  
California Registered Geologist (5106)

1/17/97

Date

## 1.0 INTRODUCTION

This report presents results of quarterly groundwater monitoring activities conducted during the period from July 1 through September 30, 1996, for the properties located at 5050 Coliseum Way and 750-50th Avenue, Oakland, California (collectively referenced as "the Site"; Figure 1). This report was prepared on behalf of Volvo GM Heavy Truck Corporation ("Volvo GM") in accordance with our work plan dated January 6, 1993, and submitted to the Alameda County Health Care Services Agency (ACHCSA). This report includes graphic illustrations of potentiometric head (water-level) data and presents historical summaries of groundwater elevation and groundwater quality data collected at the Site.

## 2.0 WATER-LEVEL MEASUREMENTS AND GROUNDWATER FLOW DIRECTION

The top of each well casing at the Site has been surveyed relative to mean sea level by a state-licensed land surveyor. Water-level measurements were collected from 21 wells at the Site on September 23, 1996. A historical summary of depth-to-water measurements and groundwater elevations for the Site is presented in Table 1. Groundwater elevation contours for September 23, 1996, are presented in Figure 2.

Groundwater elevations calculated from depth-to-water measurements collected in September 1996 were generally lower than those measured last quarter.

Groundwater elevation data for September 23, 1996, indicate that the groundwater flow direction was generally toward the west, which is consistent with historical groundwater flow data. Groundwater elevation data indicate an average horizontal hydraulic gradient of approximately 0.008 foot per foot (ft/ft; as calculated between wells LF-5 and LF-7) across the Site. The gradient in the western portion of the Site, as measured between wells LF-15 and LF-5, is approximately 0.012 ft/ft.

Approximately 0.10 foot of free product was measured in well LF-13 using a product-thickness bailer. This measurement is consistent with previous measurements for the Site (Table 1). Since September 1995, droplets of oily material have been reported for well LF-16, located within the building. However, no measurable thickness has been observed.

## 3.0 GROUNDWATER QUALITY

Groundwater samples were collected from 20 monitoring wells (LF-1 through LF-12, LF-14 through LF-17, LF-F1, and MW-1 through MW-3) from September 23 through 25, 1996, as shown in Figure 3. Well LF-13, located on the southeastern property

boundary, contained free product and therefore was not sampled. Well MW-4 was not accessible because of site facility operations and was not sampled.

Groundwater samples were submitted to the laboratory for metals analysis using EPA Method 200 series. Samples collected from wells LF-3 and LF-8 were also submitted for analysis of total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 5030, and for TPH as diesel (TPHd) and as oil (TPHo) by EPA Method 3510. The sample collected from well LF-8 also was submitted for analysis of semivolatile organic compounds (SVOCs) by EPA Method 8270.

Analytical results for groundwater samples collected during this recent round of sampling were generally consistent with results reported historically for the Site. Groundwater quality results are discussed in Section 3.2. Analytical results for metals analysis are presented in Table 2 and Figure 3. Analytical results for TPHg, TPHd, and TPHo are presented on Tables 3 and 4. Analytical results for SVOCs are presented in Table 5. Laboratory certificates and a chain-of-custody form are included in Appendix A.

### 3.1 Sampling Procedures

Before groundwater samples were collected, approximately 3 to 5 well casing volumes of water were removed from each well using a centrifugal pump or a Teflon bailer. Specific conductance, pH, and temperature of the purged water were measured during this purging process to aid in evaluating overall groundwater quality. These parameters were recorded in the field on water-quality sampling forms. Copies of these forms are included in Appendix B. Groundwater samples were collected after these parameters stabilized to within 15 percent of the previous measurement.

Groundwater samples were collected using a Teflon bailer. Groundwater samples for metals analysis were filtered in the field, placed in an ice-chilled cooler immediately after collection, and transported to American Environmental Network, Inc. (AEN), of Pleasant Hill, California, a state-certified laboratory, for analysis. The samples were preserved by the laboratory on arrival.

For quality assurance/quality control measures, a duplicate sample was collected for well LF-11 (LF-111) and submitted to AEN for metals analysis.

The pH values for groundwater samples collected from each monitoring well were measured and recorded in the field during sampling activities.

## 3.2 Groundwater Quality Results

### 3.2.1 Metals

Analytical results for Title 22 metals in groundwater samples collected during this recent round of sampling were generally consistent with results reported historically for those wells. These results, shown on Figure 3, are as follows.

Silver, barium, molybdenum, selenium, thallium, and vanadium were generally reported below detection limits, or at concentrations below 1.0 parts per million (ppm).

Zinc was detected in all 20 wells at concentrations ranging from 0.023 ppm in LF-7 to 40,000 ppm in LF-11. Zinc was detected in downgradient well LF-12 at a concentration of 2,700 ppm. The highest concentration of lead (0.19 ppm) was detected in the sample from LF-15.

The highest concentration of cadmium (130 ppm) was detected in the sample collected from LF-11, and the highest concentration of copper (17 ppm) was detected in the sample collected from LF-16. The highest concentrations of cobalt (11 ppm) and nickel (30 ppm) were detected in the sample collected from LF-15. Of the downgradient wells that were sampled, LF-12 contained the highest concentrations of the metals cadmium (3.0 ppm), cobalt (2.2 ppm), nickel (6.1), and copper (1.3 ppm).

Arsenic was detected in samples collected from 11 wells, with the highest concentration, 4.6 ppm, reported for LF-3. Arsenic was detected in downgradient well MW-2 at a concentration of 1.40 ppm.

### 3.2.2 Petroleum Hydrocarbons

Analytical results for petroleum hydrocarbons in the samples collected from LF-3, LF-8, and LF-14 were similar to previous sampling events (Tables 3 and 4). TPHg was reported in samples collected from LF-8 and LF-14 at concentrations of 0.21 ppm and 0.9 ppm, respectively. TPHg was not detected above the detection limits in the sample collected from LF-3. TPHd was detected in the samples collected from LF-3, LF-8, and LF-14, at concentrations of 0.37 ppm, 2.5 ppm, and 0.17 ppm, respectively. TPHo was not detected in the samples analyzed for TPHo. Well LF-16 will be sampled for TPHg, benzene, toluene, ethylbenzene, and total xylenes (BTEX), TPHd, and TPHo during the next sampling event.

### 3.2.3 Former Waste-Oil Tank

The absence of TPHg and BTEX compounds, and the relatively low concentration of TPHd detected last quarter in LF-1, located approximately 50 feet downgradient from the former waste-oil underground storage tank (UST), indicate that shallow groundwater quality has not been significantly affected by a possible release of

petroleum hydrocarbons from the former UST. Well LF-1 as well as downgradient well LF-5 will be sampled one additional time to confirm these results. If future analytical results are consistent with those for LF-1, then closure for the waste-oil UST will be requested.

### **3.2.4 Volatile Organic Compounds**

No samples were analyzed for volatile organic compounds (VOCs) this quarter.

### **3.2.5 Semivolatile Organic Compounds**

The sample collected from well LF-8 was analyzed for SVOCs by EPA Method 8270. Analytical results are summarized in Table 5. Compounds detected in the sample include acenaphthene (0.40 ppm), anthracene (0.027 ppm), dibenzofuran (0.19 ppm), fluoranthene (0.026 ppm), and fluorene (0.150 ppm). The results are consistent with previous results reported for this well.

### **3.2.6 Measurements of pH**

Measurements of groundwater pH are shown in Figure 3. Recent monitoring results indicate that pH values for shallow groundwater beneath the Site were generally consistent with historical values and indicate that pH is variable across the Site. The lowest pH (3.44) was measured in the sample from well LF-11. A pH value above 6.0 was measured for samples collected from 10 of the 20 wells.

### **3.2.7 Quality Assurance/Quality Control**

Analytical results for the duplicate sample collected from well LF-11 (LF-111) generally showed similar metals concentrations when compared to the primary sample collected from that well, as shown on Figure 3. The exception was the result of the test for molybdenum in which the relative percent difference between the field duplicate and the primary sample was out of the acceptable range.

**Table 1**  
**Historical Summary of Groundwater Elevation Data**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**

| Well Number | Top of PVC Casing<br>Elevation<br>(feet msl) | Date<br>Measured | Depth to<br>Water<br>(feet) | Depth to<br>Product<br>(feet) | Product Thickness<br>(ft) | Groundwater<br>Elevation<br>(feet msl) |
|-------------|--|------------------|-----------------------------|-------------------------------|---------------------------|--|
| LF-1        | 7.56   | 07-Nov-91        | 6.79                        |                               |                           | 0.77                                   |
|             |  | 26-Oct-92        | 4.69                        |                               |                           | 2.87                                   |
|             |  | 04-Mar-93        | 3.94                        |                               |                           | 3.62                                   |
|             |  | 14-Apr-93        | 3.41                        |                               |                           | 4.15                                   |
|             |  | 24-May-93        | 3.07                        |                               |                           | 4.49                                   |
|             |  | 14-Jun-93        | 3.41                        |                               |                           | 4.15                                   |
|             |  | 30-Jul-93        | 3.46                        |                               |                           | 4.10                                   |
|             |  | 31-Aug-93        | 3.67                        |                               |                           | 3.89                                   |
|             |  | 27-Sep-93        | 3.76                        |                               |                           | 3.80                                   |
|             |  | 25-Oct-93        | 3.74                        |                               |                           | 3.82                                   |
|             |  | 02-Nov-93        | 4.26                        |                               |                           | 3.30                                   |
|             |  | 08-Dec-93        | 4.42                        |                               |                           | 3.14                                   |
|             |  | 28-Jan-94        | 4.06                        |                               |                           | 3.50                                   |
|             |  | 15-Feb-94        | 3.94                        |                               |                           | 3.62                                   |
|             |  | 24-May-94        | 3.81                        |                               |                           | 3.75                                   |
|             |  | 21-Sep-94        | 3.75                        |                               |                           | 3.81                                   |
|             |  | 19-Dec-94        | 3.51                        |                               |                           | 4.05                                   |
|             |  | 13-Mar-95        | 2.33                        |                               |                           | 5.23                                   |
|             |  | 07-Jun-95        | 2.49                        |                               |                           | 5.07                                   |
| LF-2        | 9.84   | 05-Sep-95        | 2.78                        |                               |                           | 4.78                                   |
|             |  | 18-Dec-95        | 3.21                        |                               |                           | 4.35                                   |
|             |  | 28-Feb-96        | 2.51                        |                               |                           | 5.05                                   |
|             |  | 02-May-96        | 2.35                        |                               |                           | 5.21                                   |
|             |  | 23-Sep-96        | 2.80                        |                               |                           | 4.76                                   |
|             |  | 07-Nov-91        | 7.26                        |                               |                           | 2.58                                   |
|             |  | 26-Oct-92        | 6.28                        |                               |                           | 3.56                                   |
|             |  | 04-Mar-93        | 5.14                        |                               |                           | 4.70                                   |
|             |  | 14-Apr-93        | 4.95                        |                               |                           | 4.89                                   |
|             |  | 24-May-93        | 5.09                        |                               |                           | 4.75                                   |
|             |  | 14-Jun-93        | 5.21                        |                               |                           | 4.63                                   |
|             |  | 30-Jul-93        | 5.38                        |                               |                           | 4.46                                   |
|             |  | 31-Aug-93        | 5.57                        |                               |                           | 4.27                                   |
|             |  | 27-Sep-93        | 5.70                        |                               |                           | 4.14                                   |
|             |  | 25-Oct-93        | 5.80                        |                               |                           | 4.04                                   |
|             |  | 02-Nov-93        | 5.86                        |                               |                           | 3.98                                   |
|             |  | 08-Dec-93        | 6.21                        |                               |                           | 3.63                                   |
|             |  | 28-Jan-94        | 6.12                        |                               |                           | 3.72                                   |
|             |  | 15-Feb-94        | 6.07                        |                               |                           | 3.77                                   |
|             |  | 24-May-94        | 5.65                        |                               |                           | 4.19                                   |
|             |  | 21-Sep-94        | 6.00                        |                               |                           | 3.84                                   |
|             |  | 19-Dec-94        | 5.91                        |                               |                           | 3.93                                   |
|             |  | 13-Mar-95        | 4.30                        |                               |                           | 5.54                                   |
|             |  | 07-Jun-95        | 4.36                        |                               |                           | 5.48                                   |
|             |  | 05-Sep-95        | 5.12                        |                               |                           | 4.72                                   |
|             |  | 18-Dec-95        | 5.56                        |                               |                           | 4.28                                   |
|             |  | 28-Feb-96        | 4.51                        |                               |                           | 5.33                                   |
|             |  | 02-May-96        | 4.41                        |                               |                           | 5.43                                   |

**Table 1**  
**Historical Summary of Groundwater Elevation Data**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**

| Well Number | Top of PVC Casing<br>Elevation<br>(feet msl) | Date<br>Measured | Depth to<br>Water<br>(feet) | Depth to<br>Product<br>(feet) | Product Thickness<br>(ft) | Groundwater<br>Elevation<br>(feet msl) |
|-------------|--|------------------|-----------------------------|-------------------------------|---------------------------|--|
|             |  | 23-Sep-96        | 5.24                        |                               |                           | 4.60                                   |
| LF-3        | 10.98  | 07-Nov-91        | 7.55                        |                               |                           | 3.43                                   |
|             |  | 26-Oct-92        | 7.05                        |                               |                           | 3.93                                   |
|             |  | 04-Mar-93        | 5.83                        |                               |                           | 5.15                                   |
|             |  | 14-Apr-93        | 5.48                        |                               |                           | 5.50                                   |
|             |  | 24-May-93        | 5.61                        |                               |                           | 5.37                                   |
|             |  | 14-Jun-93        | 5.75                        |                               |                           | 5.23                                   |
|             |  | 30-Jul-93        | 5.96                        |                               |                           | 5.02                                   |
|             |  | 31-Aug-93        | 6.18                        |                               |                           | 4.80                                   |
|             |  | 27-Sep-93        | 6.33                        |                               |                           | 4.65                                   |
|             |  | 25-Oct-93        | 6.46                        |                               |                           | 4.52                                   |
|             |  | 02-Nov-93        | 6.62                        |                               |                           | 4.36                                   |
|             |  | 08-Dec-93        | 6.71                        |                               |                           | 4.27                                   |
|             |  | 28-Jan-94        | 6.72                        |                               |                           | 4.26                                   |
|             |  | 15-Feb-94        | 6.50                        |                               |                           | 4.48                                   |
|             |  | 24-May-94        | 6.15                        |                               |                           | 4.83                                   |
|             |  | 21-Sep-94        | 6.56                        |                               |                           | 4.42                                   |
|             |  | 19-Dec-94        | 6.06                        |                               |                           | 4.92                                   |
|             |  | 13-Mar-95        | 4.85                        |                               |                           | 6.13                                   |
|             |  | 07-Jun-95        | 4.58                        |                               |                           | 6.40                                   |
|             |  | 05-Sep-95        | 5.38                        |                               |                           | 5.60                                   |
|             |  | 18-Dec-95        | 5.75                        |                               |                           | 5.23                                   |
|             |  | 28-Feb-96        | 4.80                        |                               |                           | 6.18                                   |
|             |  | 02-May-96        | 4.64                        |                               |                           | 6.34                                   |
|             |  | 23-Sep-96        | 5.53                        |                               |                           | 5.45                                   |
| LF-4        | 10.36  | 07-Nov-91        | 11.63                       |                               |                           | -1.27                                  |
|             |  | 26-Oct-92        | 7.31                        |                               |                           | 3.05                                   |
|             |  | 04-Mar-93        | 5.58                        |                               |                           | 4.78                                   |
|             |  | 14-Apr-93        | 5.21                        |                               |                           | 5.15                                   |
|             |  | 24-May-93        | 5.48                        |                               |                           | 4.88                                   |
|             |  | 14-Jun-93        | 5.63                        |                               |                           | 4.73                                   |
|             |  | 30-Jul-93        | 5.92                        |                               |                           | 4.44                                   |
|             |  | 31-Aug-93        | 6.16                        |                               |                           | 4.20                                   |
|             |  | 27-Sep-93        | 6.36                        |                               |                           | 4.00                                   |
|             |  | 25-Oct-93        | 6.54                        |                               |                           | 3.82                                   |
|             |  | 02-Nov-93        | 7.00                        |                               |                           | 3.36                                   |
|             |  | 08-Dec-93        | 6.96                        |                               |                           | 3.40                                   |
|             |  | 28-Jan-94        | 7.04                        |                               |                           | 3.32                                   |
|             |  | 15-Feb-94        | 6.84                        |                               |                           | 3.52                                   |
|             |  | 24-May-94        | 5.99                        |                               |                           | 4.37                                   |
|             |  | 21-Sep-94        | 6.62                        |                               |                           | 3.74                                   |
|             |  | 19-Dec-94        | 6.75                        |                               |                           | 3.61                                   |
|             |  | 13-Mar-95        | 5.67                        |                               |                           | 4.69                                   |
|             |  | 07-Jun-95        | 4.48                        |                               |                           | 5.88                                   |
|             |  | 05-Sep-95        | 5.38                        |                               |                           | 4.98                                   |
|             |  | 18-Dec-95        | 5.96                        |                               |                           | 4.40                                   |

**Table 1**  
**Historical Summary of Groundwater Elevation Data**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**

| Well Number | Top of PVC Casing<br>Elevation<br>(feet msl) | Date<br>Measured | Depth to<br>Water<br>(feet) | Depth to<br>Product<br>(feet) | Product Thickness<br>(ft) | Groundwater<br>Elevation<br>(feet msl) |
|-------------|--|------------------|-----------------------------|-------------------------------|---------------------------|--|
| LF-5        | 8.03   | 28-Feb-96        | 4.31                        |                               |                           | 6.05                                   |
|             |  | 02-May-96        | 4.40                        |                               |                           | 5.96                                   |
|             |  | 23-Sep-96        | 5.60                        |                               |                           | 4.76                                   |
| LF-5        | 8.03   | 07-Nov-91        | 7.34                        |                               |                           | 0.69                                   |
|             |  | 26-Oct-92        | 7.05                        |                               |                           | 0.98                                   |
|             |  | 04-Mar-93        | 6.05                        |                               |                           | 1.98                                   |
|             |  | 14-Apr-93        | 6.25                        |                               |                           | 1.78                                   |
|             |  | 24-May-93        | 6.61                        |                               |                           | 1.42                                   |
|             |  | 14-Jun-93        | 6.97                        |                               |                           | 1.06                                   |
|             |  | 30-Jul-93        | 6.72                        |                               |                           | 1.31                                   |
|             |  | 31-Aug-93        | 6.84                        |                               |                           | 1.19                                   |
|             |  | 27-Sep-93        | 7.10                        |                               |                           | 0.93                                   |
|             |  | 25-Oct-93        | 7.11                        |                               |                           | 0.92                                   |
|             |  | 02-Nov-93        | 7.04                        |                               |                           | 0.99                                   |
|             |  | 08-Dec-93        | 7.27                        |                               |                           | 0.76                                   |
|             |  | 28-Jan-94        | 6.82                        |                               |                           | 1.21                                   |
|             |  | 15-Feb-94        | 6.85                        |                               |                           | 1.18                                   |
|             |  | 24-May-94        | 6.76                        |                               |                           | 1.27                                   |
|             |  | 21-Sep-94        | 7.05                        |                               |                           | 0.98                                   |
|             |  | 19-Dec-94        | 6.48                        |                               |                           | 1.55                                   |
|             |  | 13-Mar-95        | 5.25                        |                               |                           | 2.78                                   |
|             |  | 07-Jun-95        | 5.98                        |                               |                           | 2.05                                   |
|             |  | 05-Sep-95        | 6.42                        |                               |                           | 1.61                                   |
|             |  | 18-Dec-95        | 5.87                        |                               |                           | 2.16                                   |
| LF-6        | 11.59  | 28-Feb-96        | 4.58                        |                               |                           | 3.45                                   |
|             |  | 02-May-96        | 5.72                        |                               |                           | 2.31                                   |
|             |  | 23-Sep-96        | 6.33                        |                               |                           | 1.70                                   |
|             |  | 07-Nov-91        | 8.59                        |                               |                           | 3.00                                   |
|             |  | 26-Oct-92        | 8.82                        |                               |                           | 2.77                                   |
|             |  | 04-Mar-93        | 5.79                        |                               |                           | 5.80                                   |
|             |  | 14-Apr-93        | 5.41                        |                               |                           | 6.18                                   |
|             |  | 24-May-93        | 6.05                        |                               |                           | 5.54                                   |
|             |  | 14-Jun-93        | 6.29                        |                               |                           | 5.30                                   |
|             |  | 30-Jul-93        | 6.83                        |                               |                           | 4.76                                   |
|             |  | 31-Aug-93        | 7.27                        |                               |                           | 4.32                                   |
|             |  | 27-Sep-93        | 7.61                        |                               |                           | 3.98                                   |
|             |  | 25-Oct-93        | 7.79                        |                               |                           | 3.80                                   |
|             |  | 02-Nov-93        | 8.07                        |                               |                           | 3.52                                   |
|             |  | 08-Dec-93        | 7.34                        |                               |                           | 4.25                                   |
|             |  | 28-Jan-94        | 6.37                        |                               |                           | 5.22                                   |
|             |  | 15-Feb-94        | 5.98                        |                               |                           | 5.61                                   |
|             |  | 24-May-94        | 6.14                        |                               |                           | 5.45                                   |
|             |  | 21-Sep-94        | 7.39                        |                               |                           | 4.20                                   |
|             |  | 19-Dec-94        | 6.12                        |                               |                           | 5.47                                   |
|             |  | 13-Mar-95        | 4.98                        |                               |                           | 6.61                                   |
|             |  | 07-Jun-95        | 5.03                        |                               |                           | 6.56                                   |

**Table 1**  
**Historical Summary of Groundwater Elevation Data**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**

| Well Number | Top of PVC Casing<br>Elevation<br>(feet msl) | Date<br>Measured | Depth to<br>Water<br>(feet) | Depth to<br>Product<br>(feet) | Product Thickness<br>(ft) | Groundwater<br>Elevation<br>(feet msl) |
|-------------|--|------------------|-----------------------------|-------------------------------|---------------------------|--|
|             |  | 05-Sep-95        | 6.23                        |                               |                           | 5.36                                   |
|             |  | 18-Dec-95        | 5.71                        |                               |                           | 5.88                                   |
|             |  | 28-Feb-96        | 4.75                        |                               |                           | 6.84                                   |
|             |  | 02-May-96        | 5.08                        |                               |                           | 6.51                                   |
|             |  | 23-Sep-96        | 6.45                        |                               |                           | 5.14                                   |
| LF-7        | 10.65  | 07-Nov-91        | 8.54                        |                               |                           | 2.11                                   |
|             |  | 26-Oct-92        | 7.98                        |                               |                           | 2.67                                   |
|             |  | 04-Mar-93        | 4.92                        |                               |                           | 5.73                                   |
|             |  | 14-Apr-93        | 4.80                        |                               |                           | 5.85                                   |
|             |  | 24-May-93        | 5.03                        |                               |                           | 5.62                                   |
|             |  | 14-Jun-93        | 5.18                        |                               |                           | 5.47                                   |
|             |  | 30-Jul-93        | 5.51                        |                               |                           | 5.14                                   |
|             |  | 31-Aug-93        | 5.82                        |                               |                           | 4.83                                   |
|             |  | 27-Sep-93        | 6.14                        |                               |                           | 4.51                                   |
|             |  | 25-Oct-93        | 6.39                        |                               |                           | 4.26                                   |
|             |  | 02-Nov-93        | 6.60                        |                               |                           | 4.05                                   |
|             |  | 08-Dec-93        | 6.74                        |                               |                           | 3.91                                   |
|             |  | 28-Jan-94        | 6.03                        |                               |                           | 4.62                                   |
|             |  | 15-Feb-94        | 5.59                        |                               |                           | 5.06                                   |
|             |  | 24-May-94        | 5.46                        |                               |                           | 5.19                                   |
|             |  | 21-Sep-94        | 6.40                        |                               |                           | 4.25                                   |
|             |  | 19-Dec-94        | 5.59                        |                               |                           | 5.06                                   |
|             |  | 13-Mar-95        | 4.16                        |                               |                           | 6.49                                   |
|             |  | 07-Jun-95        | 4.07                        |                               |                           | 6.58                                   |
|             |  | 05-Sep-95        | 4.81                        |                               |                           | 5.84                                   |
|             |  | 18-Dec-95        | 4.99                        |                               |                           | 5.66                                   |
|             |  | 28-Feb-96        | 4.22                        |                               |                           | 6.43                                   |
|             |  | 02-May-96        | 4.09                        |                               |                           | 6.56                                   |
|             |  | 23-Sep-96        | 4.97                        |                               |                           | 5.68                                   |
| LF-8        | 10.91  | 02-Nov-93        | 6.18                        |                               |                           | 4.73                                   |
|             |  | 08-Dec-93        | 6.29                        |                               |                           | 4.62                                   |
|             |  | 28-Jan-94        | 6.38                        |                               |                           | 4.53                                   |
|             |  | 15-Feb-94        | 6.37                        |                               |                           | 4.54                                   |
|             |  | 24-May-94        | 6.15                        |                               |                           | 4.76                                   |
|             |  | 21-Sep-94        | 6.33                        |                               |                           | 4.58                                   |
|             |  | 19-Dec-94        | 6.31                        |                               |                           | 4.60                                   |
|             |  | 13-Mar-95        | 4.48                        |                               |                           | 6.43                                   |
|             |  | 07-Jun-95        | 4.46                        |                               |                           | 6.45                                   |
|             |  | 05-Sep-95        | 5.08                        |                               |                           | 5.83                                   |
|             |  | 18-Dec-95        | 5.63                        |                               |                           | 5.28                                   |
|             |  | 28-Feb-96        | 4.57                        |                               |                           | 6.34                                   |
|             |  | 02-May-96        | 4.41                        |                               |                           | 6.50                                   |
|             |  | 23-Sep-96        | 5.20                        |                               |                           | 5.71                                   |
| LF-9        | 11.70  | 02-Nov-93        | 6.76                        |                               |                           | 4.94                                   |
|             |  | 08-Dec-93        | 6.91                        |                               |                           | 4.79                                   |

**Table 1**  
**Historical Summary of Groundwater Elevation Data**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**

| Well Number | Top of PVC Casing<br>Elevation<br>(feet msl) | Date<br>Measured | Depth to<br>Water<br>(feet) | Depth to<br>Product<br>(feet) | Product Thickness<br>(ft) | Groundwater<br>Elevation<br>(feet msl) |
|-------------|--|------------------|-----------------------------|-------------------------------|---------------------------|--|
| LF-10       | 9.43   | 28-Jan-94        | 6.88                        |                               |                           | 4.82                                   |
|             |  | 15-Feb-94        | 6.80                        |                               |                           | 4.90                                   |
|             |  | 24-May-94        | 6.80                        |                               |                           | 4.90                                   |
|             |  | 21-Sep-94        | 6.98                        |                               |                           | 4.72                                   |
|             |  | 19-Dec-94        | 6.34                        |                               |                           | 5.36                                   |
|             |  | 13-Mar-95        | 5.12                        |                               |                           | 6.58                                   |
|             |  | 07-Jun-95        | 5.31                        |                               |                           | 6.39                                   |
|             |  | 05-Sep-95        | 5.90                        |                               |                           | 5.80                                   |
|             |  | 18-Dec-95        | 6.80                        |                               |                           | 4.90                                   |
|             |  | 28-Feb-96        | 5.23                        |                               |                           | 6.47                                   |
|             |  | 02-May-96        | 5.16                        |                               |                           | 6.54                                   |
|             |  | 23-Sep-96        | 5.95                        |                               |                           | 5.75                                   |
|             |  |                  |                             |                               |                           |  |
|             |  |                  |                             |                               |                           |  |
| LF-11       | 9.07   | 02-Nov-93        | 8.14                        |                               |                           | 1.29                                   |
|             |  | 08-Dec-93        | 7.82                        |                               |                           | 1.61                                   |
|             |  | 28-Jan-94        | NM                          |                               |                           | NM                                     |
|             |  | 15-Feb-94        | 7.47                        |                               |                           | 1.96                                   |
|             |  | 24-May-94        | 7.11                        |                               |                           | 2.32                                   |
|             |  | 21-Sep-94        | 7.90                        |                               |                           | 1.53                                   |
|             |  | 19-Dec-94        | 7.21                        |                               |                           | 2.22                                   |
|             |  | 13-Mar-95        | 5.68                        |                               |                           | 3.75                                   |
|             |  | 07-Jun-95        | 5.92                        |                               |                           | 3.51                                   |
|             |  | 05-Sep-95        | 6.61                        |                               |                           | 2.82                                   |
|             |  | 18-Dec-95        | 6.92                        |                               |                           | 2.51                                   |
|             |  | 28-Feb-96        | 5.62                        |                               |                           | 3.81                                   |
|             |  | 02-May-96        | 6.00                        |                               |                           | 3.43                                   |
|             |  | 23-Sep-96        | 6.81                        |                               |                           | 2.62                                   |
|             |  |                  |                             |                               |                           |  |
| LF-12       | 8.70   | 02-Nov-93        | 11.68                       |                               |                           | -2.61                                  |
|             |  | 08-Dec-93        | 5.35                        |                               |                           | 3.72                                   |
|             |  | 28-Jan-94        | 5.27                        |                               |                           | 3.80                                   |
|             |  | 15-Feb-94        | 5.04                        |                               |                           | 4.03                                   |
|             |  | 24-May-94        | 4.20                        |                               |                           | 4.87                                   |
|             |  | 21-Sep-94        | 4.70                        |                               |                           | 4.37                                   |
|             |  | 19-Dec-94        | 4.72                        |                               |                           | 4.35                                   |
|             |  | 13-Mar-95        | 3.27                        |                               |                           | 5.80                                   |
|             |  | 07-Jun-95        | 3.75                        |                               |                           | 5.32                                   |
|             |  | 05-Sep-95        | 3.70                        |                               |                           | 5.37                                   |
|             |  | 18-Dec-95        | 4.20                        |                               |                           | 4.87                                   |
|             |  | 28-Feb-96        | 2.88                        |                               |                           | 6.19                                   |
|             |  | 02-May-96        | 2.84                        |                               |                           | 6.23                                   |
|             |  | 23-Sep-96        | 3.78                        |                               |                           | 5.29                                   |
|             |  |                  |                             |                               |                           |  |

**Table 1**  
**Historical Summary of Groundwater Elevation Data**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**

| Well Number | Top of PVC Casing<br>Elevation<br>(feet msl) | Date<br>Measured | Depth to<br>Water<br>(feet) | Depth to<br>Product<br>(feet) | Product Thickness<br>(ft) | Groundwater<br>Elevation<br>(feet msl) |
|-------------|--|------------------|-----------------------------|-------------------------------|---------------------------|--|
|             |  | 19-Dec-94        | 7.32                        |                               |                           | 1.38                                   |
|             |  | 13-Mar-95        | 6.00                        |                               |                           | 2.70                                   |
|             |  | 07-Jun-95        | 7.40                        |                               |                           | 1.30                                   |
|             |  | 05-Sep-95        | 7.45                        |                               |                           | 1.25                                   |
|             |  | 18-Dec-95        | 6.71                        |                               |                           | 1.99                                   |
|             |  | 28-Feb-96        | 6.28                        |                               |                           | 2.42                                   |
|             |  | 02-May-96        | 7.09                        |                               |                           | 1.61                                   |
|             |  | 23-Sep-96        | 7.35                        |                               |                           | 1.35                                   |
| LF-13       | 9.75   | 08-Dec-93        | 5.94                        |                               |                           | 3.81 (1)                               |
|             |  | 28-Jan-94        | 4.94                        |                               |                           | 4.81 (1)                               |
|             |  | 15-Feb-94        | 4.84                        | 4.83                          | 0.01                      | 4.92 (1)                               |
|             |  | 24-May-94        | 4.81                        | 4.75                          | 0.06                      | 4.99 (1)                               |
|             |  | 21-Sep-94        | 6.32                        | 5.17                          | 1.15 (2)                  | 4.41 (1)                               |
|             |  | 19-Dec-94        | 4.67                        | 4.57                          | 0.10                      | 5.17 (1)                               |
|             |  | 13-Mar-95        | 3.22                        | 3.12                          | 0.10                      | 6.62 (1)                               |
|             |  | 07-Jun-95        | 3.32                        | 3.22                          | 0.10                      | 6.52 (1)                               |
|             |  | 05-Sep-95        | 3.90                        | 3.80                          | 0.10                      | 5.94 (1)                               |
|             |  | 18-Dec-95        | 4.13                        | 4.03                          | 0.10                      | 5.71 (1)                               |
|             |  | 28-Feb-96        | 3.48                        | 3.38                          | 0.10                      | 6.36 (1)                               |
|             |  | 02-May-96        | 3.44                        | 3.34                          | 0.10                      | 6.40 (1)                               |
|             |  | 23-Sep-96        | 4.05                        | 3.95                          | 0.10                      | 5.79 (1)                               |
| LF-14       | 11.72  | 08-Dec-93        | 7.96                        |                               |                           | 3.76                                   |
|             |  | 28-Jan-94        | 8.02                        |                               |                           | 3.70                                   |
|             |  | 15-Feb-94        | 7.85                        |                               |                           | 3.87                                   |
|             |  | 24-May-94        | 7.68                        |                               |                           | 4.04                                   |
|             |  | 21-Sep-94        | 7.69                        |                               |                           | 4.03                                   |
|             |  | 19-Dec-94        | 7.71                        |                               |                           | 4.01                                   |
|             |  | 13-Mar-95        | 6.68                        |                               |                           | 5.04                                   |
|             |  | 07-Jun-95        | 6.03                        |                               |                           | 5.69                                   |
|             |  | 05-Sep-95        | 6.51                        |                               |                           | 5.21                                   |
|             |  | 18-Dec-95        | 7.39                        |                               |                           | 4.33                                   |
|             |  | 28-Feb-96        | 5.95                        |                               |                           | 5.77                                   |
|             |  | 02-May-96        | NM                          |                               |                           | NM                                     |
|             |  | 23-Sep-96        | 6.78                        |                               |                           | 4.94                                   |
| LF-15       | 11.62  | 08-Dec-93        | 7.91                        |                               |                           | 3.71                                   |
|             |  | 28-Jan-94        | 7.74                        |                               |                           | 3.88                                   |
|             |  | 15-Feb-94        | 7.58                        |                               |                           | 4.04                                   |
|             |  | 24-May-94        | 8.07                        |                               |                           | 3.55                                   |
|             |  | 21-Sep-94        | 8.58                        |                               |                           | 3.04                                   |
|             |  | 19-Dec-94        | NM                          |                               |                           | NM                                     |
|             |  | 13-Mar-95        | 6.32                        |                               |                           | 5.30                                   |
|             |  | 07-Jun-95        | 6.44                        |                               |                           | 5.18                                   |
|             |  | 05-Sep-95        | 6.08                        |                               |                           | 5.54                                   |
|             |  | 18-Dec-95        | 11.01                       |                               |                           | 0.61 (3)                               |
|             |  | 28-Feb-96        | 5.92                        |                               |                           | 5.70                                   |

**Table 1**  
**Historical Summary of Groundwater Elevation Data**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**

| Well Number | Top of PVC Casing<br>Elevation<br>(feet msl) | Date<br>Measured | Depth to<br>Water<br>(feet) | Depth to<br>Product<br>(feet) | Product Thickness<br>(ft) | Groundwater<br>Elevation<br>(feet msl) |
|-------------|--|------------------|-----------------------------|-------------------------------|---------------------------|--|
|             |  | 02-May-96        | 8.70                        |                               |                           | 2.92 (3)                               |
|             |  | 23-Sep-96        | 6.20                        |                               |                           | 5.42                                   |
| LF-16       | 11.56  | 08-Dec-93        | 8.35                        |                               |                           | 3.21                                   |
|             |  | 28-Jan-94        | 8.40                        |                               |                           | 3.16                                   |
|             |  | 15-Feb-94        | 8.21                        |                               |                           | 3.35                                   |
|             |  | 24-May-94        | 8.01                        |                               |                           | 3.55                                   |
|             |  | 21-Sep-94        | 7.64                        |                               |                           | 3.92                                   |
|             |  | 19-Dec-94        | 8.60                        |                               |                           | 2.96                                   |
|             |  | 13-Mar-95        | 6.22                        |                               |                           | 5.34                                   |
|             |  | 07-Jun-95        | 6.88                        |                               |                           | 4.68                                   |
|             |  | 05-Sep-95        | 7.37                        |                               |                           | 4.19                                   |
|             |  | 18-Dec-95        | 9.21                        |                               |                           | 2.35 (3)                               |
|             |  | 28-Feb-96        | 6.26                        |                               |                           | 5.30                                   |
|             |  | 02-May-96        | 6.24                        |                               |                           | 5.32                                   |
|             |  | 23-Sep-96        | 7.18                        |                               |                           | 4.38                                   |
| LF-17       | 9.71   | 08-Dec-93        | 6.72                        |                               |                           | 2.99                                   |
|             |  | 28-Jan-94        | 5.86                        |                               |                           | 3.85                                   |
|             |  | 15-Feb-94        | 5.87                        |                               |                           | 3.84                                   |
|             |  | 24-May-94        | 6.00                        |                               |                           | 3.71                                   |
|             |  | 21-Sep-94        | 6.88                        |                               |                           | 2.83                                   |
|             |  | 19-Dec-94        | 5.45                        |                               |                           | 4.26                                   |
|             |  | 13-Mar-95        | 4.68                        |                               |                           | 5.03                                   |
|             |  | 07-Jun-95        | 6.52                        |                               |                           | 3.19                                   |
|             |  | 05-Sep-95        | 7.02                        |                               |                           | 2.69                                   |
|             |  | 18-Dec-95        | 5.11                        |                               |                           | 4.60                                   |
|             |  | 28-Feb-96        | 4.63                        |                               |                           | 5.08                                   |
|             |  | 02-May-96        | 5.90                        |                               |                           | 3.81                                   |
|             |  | 23-Sep-96        | 7.04                        |                               |                           | 2.67                                   |
| LF-F1       | 8.82   | 08-Dec-93        | 4.08                        |                               |                           | 4.74                                   |
|             |  | 28-Jan-94        | 4.03                        |                               |                           | 4.79                                   |
|             |  | 15-Feb-94        | 3.90                        |                               |                           | 4.92                                   |
|             |  | 24-May-94        | 3.60                        |                               |                           | 5.22                                   |
|             |  | 21-Sep-94        | 4.05                        |                               |                           | 4.77                                   |
|             |  | 19-Dec-94        | 3.45                        |                               |                           | 5.37                                   |
|             |  | 13-Mar-95        | 2.22                        |                               |                           | 6.60                                   |
|             |  | 07-Jun-95        | 2.28                        |                               |                           | 6.54                                   |
|             |  | 05-Sep-95        | 2.92                        |                               |                           | 5.90                                   |
|             |  | 18-Dec-95        | 3.18                        |                               |                           | 5.64                                   |
|             |  | 28-Feb-96        | 2.31                        |                               |                           | 6.51                                   |
|             |  | 02-May-96        | 2.27                        |                               |                           | 6.55                                   |
|             |  | 23-Sep-96        | 3.10                        |                               |                           | 5.72                                   |
| MW-1        | 10.21  | 07-Nov-91        | 6.29                        |                               |                           | 4.24                                   |
|             |  | 26-Oct-92        | 6.38                        |                               |                           | 2.63                                   |
|             |  | 04-Mar-93        | 3.57                        |                               |                           | 6.64                                   |

**Table 1**  
**Historical Summary of Groundwater Elevation Data**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**

| Well Number | Top of PVC Casing<br>Elevation<br>(feet msl) | Date<br>Measured | Depth to<br>Water<br>(feet) | Depth to<br>Product<br>(feet) | Product Thickness<br>(ft) | Groundwater<br>Elevation<br>(feet msl) |
|-------------|--|------------------|-----------------------------|-------------------------------|---------------------------|--|
| MW-2        | 8.86   | 14-Apr-93        | 3.57                        |                               |                           | 6.64                                   |
|             |  | 24-May-93        | 4.59                        |                               |                           | 5.62                                   |
|             |  | 14-Jun-93        | 4.86                        |                               |                           | 5.35                                   |
|             |  | 30-Jul-93        | 5.72                        |                               |                           | 4.49                                   |
|             |  | 31-Aug-93        | 6.38                        |                               |                           | 3.83                                   |
|             |  | 27-Sep-93        | 6.85                        |                               |                           | 3.36                                   |
|             |  | 25-Oct-93        | 7.03                        |                               |                           | 3.18                                   |
|             |  | 02-Nov-93        | 7.30                        |                               |                           | 2.91                                   |
|             |  | 08-Dec-93        | 6.51                        |                               |                           | 3.70                                   |
|             |  | 28-Jan-94        | 5.00                        |                               |                           | 5.21                                   |
|             |  | 15-Feb-94        | 4.46                        |                               |                           | 5.75                                   |
|             |  | 24-May-94        | 4.65                        |                               |                           | 5.56                                   |
|             |  | 21-Sep-94        | 6.35                        |                               |                           | 3.86                                   |
|             |  | 19-Dec-94        | 3.70                        |                               |                           | 6.51                                   |
|             |  | 13-Mar-95        | 2.71                        |                               |                           | 7.50                                   |
|             |  | 07-Jun-95        | 4.02                        |                               |                           | 6.19                                   |
|             |  | 05-Sep-95        | 5.67                        |                               |                           | 4.54                                   |
|             |  | 18-Dec-95        | 4.47                        |                               |                           | 5.74                                   |
|             |  | 28-Feb-96        | 2.53                        |                               |                           | 7.68                                   |
|             |  | 02-May-96        | 3.72                        |                               |                           | 6.49                                   |
|             |  | 23-Sep-96        | 6.00                        |                               |                           | 4.21                                   |
|             |  | 07-Nov-91        | 5.93                        |                               |                           | 2.93                                   |
|             |  | 26-Oct-92        | 5.41                        |                               |                           | 3.45                                   |
|             |  | 04-Mar-93        | 4.26                        |                               |                           | 4.60                                   |
|             |  | 14-Apr-93        | 3.83                        |                               |                           | 5.03                                   |
|             |  | 24-May-93        | 3.78                        |                               |                           | 5.08                                   |
|             |  | 14-Jun-93        | 3.89                        |                               |                           | 4.97                                   |
|             |  | 30-Jul-93        | 4.10                        |                               |                           | 4.76                                   |
|             |  | 31-Aug-93        | 4.37                        |                               |                           | 4.49                                   |
|             |  | 27-Sep-93        | 4.72                        |                               |                           | 4.14                                   |
|             |  | 25-Oct-93        | 4.81                        |                               |                           | 4.05                                   |
|             |  | 02-Nov-93        | 4.96                        |                               |                           | 3.90                                   |
|             |  | 08-Dec-93        | 5.13                        |                               |                           | 3.73                                   |
|             |  | 28-Jan-94        | 5.18                        |                               |                           | 3.68                                   |
|             |  | 15-Feb-94        | 5.02                        |                               |                           | 3.84                                   |
|             |  | 24-May-94        | 4.43                        |                               |                           | 4.43                                   |
|             |  | 21-Sep-94        | 5.82                        |                               |                           | 3.04                                   |
|             |  | 12-Dec-94        | 4.75                        |                               |                           | 4.11                                   |
|             |  | 13-Mar-95        | 3.28                        |                               |                           | 5.58                                   |
|             |  | 07-Jun-95        | 3.12                        |                               |                           | 5.74                                   |
|             |  | 05-Sep-95        | 3.90                        |                               |                           | 4.96                                   |
|             |  | 18-Dec-95        | 4.55                        |                               |                           | 4.31                                   |
|             |  | 28-Feb-96        | 3.12                        |                               |                           | 5.74                                   |
|             |  | 02-May-96        | 3.03                        |                               |                           | 5.83                                   |
|             |  | 23-Sep-96        | 4.07                        |                               |                           | 4.79                                   |

**Table 1**  
**Historical Summary of Groundwater Elevation Data**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**

| Well Number | Top of PVC Casing<br>Elevation<br>(feet msl) | Date<br>Measured | Depth to<br>Water<br>(feet) | Depth to<br>Product<br>(feet) | Product Thickness<br>(ft) | Groundwater<br>Elevation<br>(feet msl) |
|-------------|--|------------------|-----------------------------|-------------------------------|---------------------------|--|
| MW-3        | 9.01   | 07-Nov-91        | 6.94                        |                               |                           | 2.07                                   |
|             |  | 26-Oct-92        | 7.29                        |                               |                           | 1.72                                   |
|             |  | 04-Mar-93        | 5.07                        |                               |                           | 3.94                                   |
|             |  | 14-Apr-93        | 5.21                        |                               |                           | 3.80                                   |
|             |  | 24-May-93        | 5.95                        |                               |                           | 3.06                                   |
|             |  | 14-Jun-93        | 6.23                        |                               |                           | 2.78                                   |
|             |  | 27-Sep-93        | 6.46                        |                               |                           | 2.55                                   |
|             |  | 25-Oct-93        | 6.47                        |                               |                           | 2.54                                   |
|             |  | 02-Nov-93        | 6.62                        |                               |                           | 2.39                                   |
|             |  | 08-Dec-93        | 6.23                        |                               |                           | 2.78                                   |
|             |  | 28-Jan-94        | 5.58                        |                               |                           | 3.43                                   |
|             |  | 15-Feb-94        | 5.70                        |                               |                           | 3.31                                   |
|             |  | 24-May-94        | 5.59                        |                               |                           | 3.42                                   |
|             |  | 21-Sep-94        | 6.46                        |                               |                           | 2.55                                   |
|             |  | 19-Dec-94        | 5.46                        |                               |                           | 3.55                                   |
|             |  | 13-Mar-95        | 4.37                        |                               |                           | 4.64                                   |
|             |  | 07-Jun-95        | 5.61                        |                               |                           | 3.40                                   |
|             |  | 05-Sep-95        | 6.38                        |                               |                           | 2.63                                   |
|             |  | 18-Dec-95        | 4.91                        |                               |                           | 4.10                                   |
| MW-4        | 10.75  | 28-Feb-96        | 4.37                        |                               |                           | 4.64                                   |
|             |  | 02-May-96        | 5.23                        |                               |                           | 3.78                                   |
|             |  | 23-Sep-96        | 6.34                        |                               |                           | 2.67                                   |
|             |  | 07-Nov-91        | 10.26                       |                               |                           | 0.49                                   |
|             |  | 26-Oct-92        | 9.04                        |                               |                           | 1.71                                   |
|             |  | 04-Mar-93        | 5.77                        |                               |                           | 4.98                                   |
|             |  | 14-Apr-93        | 4.71                        |                               |                           | 6.04                                   |
|             |  | 24-May-93        | 5.60                        |                               |                           | 5.15                                   |
|             |  | 14-Jun-93        | 5.94                        |                               |                           | 4.81                                   |
|             |  | 30-Jul-93        | 6.72                        |                               |                           | 4.03                                   |
|             |  | 31-Aug-93        | 7.25                        |                               |                           | 3.50                                   |
|             |  | 27-Sep-93        | 7.66                        |                               |                           | 3.09                                   |
|             |  | 25-Oct-93        | 7.79                        |                               |                           | 2.96                                   |
|             |  | 02-Nov-93        | 7.97                        |                               |                           | 2.78                                   |
|             |  | 08-Dec-93        | 7.18                        |                               |                           | 3.57                                   |
|             |  | 28-Jan-94        | 5.50                        |                               |                           | 5.25                                   |
|             |  | 15-Feb-94        | 5.17                        |                               |                           | 5.58                                   |
|             |  | 24-May-94        | 5.46                        |                               |                           | 5.29                                   |
|             |  | 21-Sep-94        | 7.52                        |                               |                           | 3.23                                   |
|             |  | 19-Dec-94        | 4.42                        |                               |                           | 6.33                                   |
|             |  | 13-Mar-95        | 3.48                        |                               |                           | 7.27                                   |
|             |  | 07-Jun-95        | 4.93                        |                               |                           | 5.82                                   |
|             |  | 05-Sep-95        | 6.34                        |                               |                           | 4.41                                   |
|             |  | 18-Dec-95        | 4.61                        |                               |                           | 6.14                                   |
|             |  | 28-Feb-96        | 3.36                        |                               |                           | 7.39                                   |
|             |  | 02-May-96        | 4.53                        |                               |                           | 6.22                                   |

Data entered by DEB. Data proofed by JCK

**Table 1**  
**Historical Summary of Groundwater Elevation Data**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**

| Well Number | Top of PVC Casing<br>Elevation<br>(feet msl) | Date<br>Measured | Depth to<br>Water<br>(feet) | Depth to<br>Product<br>(feet) | Product Thickness<br>(ft) | Groundwater<br>Elevation<br>(feet msl) |
|-------------|--|------------------|-----------------------------|-------------------------------|---------------------------|--|
|-------------|--|------------------|-----------------------------|-------------------------------|---------------------------|--|

**NOTES**

All elevations are measured relative to the mean-sea-level (msl) datum.

The top of casing elevations were measured from the north side of each PVC casing.

(1) Groundwater elevation for well LF-13 is corrected for the presence of free product as indicated in note (2). Product thickness measurement is approximate due to the viscous nature of the product. Groundwater elevation corrected for the presence of free product using the following equation:  $G = W + [(PT \cdot D) - DW]$  where G is the groundwater elevation, W is the well elevation, PT is the product thickness, D is the product density (g/ml), and DW is the depth-to-water. For purposes of this calculation, D = 0.85 will be used.

(2) In general, product thickness measurements for well LF-13 are approximate due to the viscous nature of the product. Specifically, the measurement reported for September 21, 1994, was measured using an electronic oil/water interface probe only, which likely resulted in an incorrect measurement.

(3) Groundwater elevations appear to be anomalous.

Table 2

**Metals Detected in Groundwater Samples**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**  
**(Concentrations reported in parts per million [ppm])**

| Sample ID  | Sample Date | Silver | Arsenic | Barium | Beryllium | Cadmium | Cobalt | Chromium | Copper  | Mercury | Molybdenum | Nickel | Lead   | Antimony | Selenium | Thallium | Vanadium | Zinc  |
|------------|-------------|--------|---------|--------|-----------|---------|--------|----------|---------|---------|------------|--------|--------|----------|----------|----------|----------|-------|
| LF-1       | 4-Nov-91    | 0.054  | 0.004   | 0.046  | 0.11      | 130     | 5.7    | <0.01    | 1.9     | <0.0003 | 0.11       | 20     | 0.5    | <0.2     | <0.004   | <1       | <0.005   | 40000 |
| LF-1       | 27-Oct-92   | <0.5   | 0.007   | <0.5   | <0.2      | 57      | 4.1    | <1       | 1       | <0.0003 | <1         | 19     | <4     | <2       | 0.027    | <10      | <0.5     | 16000 |
| LF-1       | 5-Mar-93    | <0.5   | 0.22    | <0.05  | <0.2      | 43      | 3.6    | <1       | 0.47    | <0.0003 | <1         | 11     | <4     | <2       | <0.01    | <10      | <0.5     | 14000 |
| Duplicate  | 5-Mar-93    | <0.5   | 0.26    | <0.05  | <0.2      | 44      | 3.9    | <1       | 0.5     | <0.0003 | <1         | 11     | <4     | <2       | <0.01    | <10      | <0.5     | 14000 |
| LF-1       | 25-May-93   | <0.5   | 0.12    | <0.05  | <0.2      | 40      | 4.7    | <1       | 1       | <0.0003 | <1         | 16     | <0.4   | <2       | <0.004   | <10      | <0.5     | 19000 |
| Duplicate  | 25-May-93   | <0.03  | 0.36    | <0.05  | 0.02      | 9.6     | 0.81   | <0.05    | 0.15    | <0.0003 | <0.05      | 3      | 0.3    | <0.1     | <0.004   | <0.5     | <0.03    | 4700  |
| LF-1       | 31-Aug-93   | <0.5   | 0.072   | <0.05  | <0.2      | 32      | 2.3    | <1       | <1      | <0.0003 | <1         | 9      | <4     | <2       | <0.004   | <10      | <0.5     | 13000 |
| Duplicate  | 31-Aug-93   | <0.5   | 0.66    | <0.05  | <0.2      | 13      | 1      | <1       | <1      | <0.0003 | <1         | 5      | <4     | <2       | <0.004   | <10      | <0.5     | 7200  |
| LF-1       | 26-Oct-93   | <0.05  | 0.4     | <0.5   | 0.02      | 15      | 1.3    | 0.6      | 0.9     | <0.0003 | <0.1       | 4.9    | 0.4    | <0.2     | <0.04    | <1       | <0.05    | 7100  |
| LF-101 dup | 26-Oct-93   | <0.1   | 1.3     | <1     | <0.04     | 12      | 1      | <0.2     | 0.3     | <0.0003 | <0.2       | 3.7    | <0.8   | <0.4     | <0.08    | <2       | <0.1     | 5900  |
| LF-1       | 18-Feb-94   | <0.05  | 0.57    | <0.5   | <0.02     | 2.6     | 0.33   | <0.1     | <0.1    | <0.0002 | <0.1       | 1.4    | 0.8    | <0.2     | <0.004   | <1       | <0.05    | 2600  |
| LF-1       | 25-May-94   | <0.05  | 0.49    | <0.05  | <0.2      | 7.9     | 0.9    | <1       | <1      | <0.0002 | <1         | 3      | 0.79   | <3       | <0.004   | <10      | <0.5     | 5000  |
| LF-1       | 22-Sep-94   | <0.05  | 0.77    | <0.05  | <0.02     | 6.1     | 0.67   | <0.1     | <0.1    | <0.0002 | <0.1       | 2.5    | 0.91   | <0.2     | <0.02    | <1       | <0.05    | 4100  |
| LF-1       | 20-Dec-94   | <0.05  | 0.65    | <0.5   | <0.02     | 4.2     | 0.45   | <0.1     | <0.1    | <0.0002 | <0.1       | 1.7    | 0.6    | <0.2     | <0.04    | <1       | <0.05    | 3700  |
| LF-1       | 15-Mar-95   | <0.05  | 0.39    | <0.1   | <0.02     | 8.5     | 0.81   | <0.1     | 0.2     | <0.0002 | <0.1       | 3.4    | 0.41   | <0.2     | <0.004   | <0.5     | <0.05    | 4700  |
| LF-1       | 8-Jun-95    | <0.5   | 0.33    | <1     | <0.2      | 11      | 0.9    | <1       | <1      | <0.0002 | <1         | 4      | 1.5    | <2       | <0.02    | <5       | <0.5     | 6500  |
| LF-101 dup | 8-Jun-95    | <0.5   | 0.41    | <1     | <0.2      | 23      | 1.8    | <1       | <1      | <0.0002 | <1         | 7      | 0.76   | <2       | <0.02    | <5       | <0.5     | 10000 |
| LF-1       | 7-Sep-95    | <0.05  | 0.30    | <0.1   | 0.03      | 23      | 2.0    | <0.1     | 0.5     | <0.0002 | <0.1       | 7.3    | 0.67   | <0.2     | <0.1     | 0.6      | <0.05    | 10000 |
| LF-1       | 19-Dec-95   | <0.5   | 0.34    | <1     | <0.3      | 12      | 1.1    | <1       | <1      | <0.0002 | <1         | 4      | 0.26   | <2       | 0.036    | <5       | <0.5     | 6200  |
| LF-1       | 29-Feb-96   | <0.05  | 0.65    | <0.1   | <0.02     | 5.6     | 0.6    | <0.1     | <0.1    | <0.0002 | <0.1       | 2.4    | 0.97   | <0.2     | <0.02    | <0.5     | <0.05    | 4600  |
| LF-1       | 2-May-96    | <0.5   | 0.40    | <1     | <0.2      | 9.9     | 1.0    | <1       | <1      | <0.0002 | <1         | 3      | 0.95   | <2       | <0.004   | <5       | <0.5     | 6700  |
| LF-1       | 24-Sep-96   | <0.05  | 0.91    | <0.1   | 0.03      | 14      | 1.4    | <0.1     | 0.4     | <0.0002 | 0.3        | 4.8    | <0.05  | <0.2     | <0.02    | <0.5     | <0.05    | 6300  |
| LF-2       | 4-Nov-91    | <0.002 | 0.028   | 0.026  | <0.001    | 0.009   | 0.18   | <0.01    | 0.008   | <0.0003 | <0.01      | 0.52   | <0.005 | <0.02    | <0.004   | <0.1     | <0.005   | 4.2   |
| LF-2       | 27-Oct-92   | 0.006  | 0.007   | <0.05  | <0.002    | 0.006   | 0.12   | <0.01    | 0.02    | <0.0003 | <0.01      | 0.22   | <0.04  | <0.02    | 0.005    | <0.1     | <0.005   | 3.3   |
| LF-2       | 4-Mar-93    | <0.005 | 0.003   | <0.05  | <0.002    | <0.005  | 0.1    | <0.01    | <0.01   | <0.0003 | <0.01      | 0.12   | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 1.9   |
| LF-2       | 24-May-93   | <0.005 | 0.005   | <0.05  | <0.002    | <0.005  | 0.061  | <0.01    | <0.01   | <0.0003 | <0.01      | 0.08   | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 1.4   |
| LF-2       | 31-Aug-93   | <0.005 | 5       | <0.05  | 0.003     | 0.021   | 0.016  | <0.01    | <0.01   | <0.0003 | 0.14       | <0.01  | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 8.6   |
| LF-2       | 25-Oct-93   | <0.005 | 0.004   | <0.05  | <0.002    | 0.009   | 0.055  | <0.01    | 0.02    | <0.0003 | <0.01      | 0.11   | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 1.9   |
| LF-2       | 16-Feb-94   | <0.005 | <0.002  | <0.05  | <0.002    | <0.005  | <0.005 | <0.1     | <0.01   | <0.0002 | <0.01      | 0.04   | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 0.41  |
| LF-2       | 24-May-94   | <0.001 | <0.002  | 0.02   | <0.0005   | <0.001  | 0.037  | <0.002   | 0.003   | <0.0002 | <0.002     | 0.024  | <0.003 | <0.005   | <0.004   | <0.02    | <0.001   | 0.3   |
| LF-2       | 22-Sep-94   | <0.001 | <0.002  | 0.02   | <0.0005   | <0.001  | 0.038  | <0.002   | 0.006   | <0.0002 | <0.002     | 0.038  | <0.005 | 0.007    | <0.004   | <0.02    | 0.001    | 0.59  |
| LF-2       | 20-Dec-94   | 0.001  | <0.002  | 0.02   | <0.0005   | <0.001  | 0.04   | <0.002   | 0.006   | <0.0002 | <0.002     | 0.03   | <0.002 | <0.005   | <0.004   | <0.02    | <0.001   | 0.39  |
| LF-2       | 15-Mar-95   | <0.001 | <0.002  | 0.017  | <0.0005   | <0.001  | 0.033  | <0.002   | 0.004   | <0.0002 | <0.002     | 0.031  | <0.002 | <0.004   | <0.004   | <0.01    | 0.002    | 0.49  |
| LF-102 dup | 16-Mar-95   | <0.001 | <0.002  | 0.017  | <0.0005   | <0.001  | 0.036  | <0.002   | 0.005   | <0.0002 | <0.002     | 0.024  | <0.002 | <0.004   | <0.004   | <0.01    | 0.001    | 0.37  |
| LF-2       | 7-Jun-95    | <0.001 | <0.002  | 0.017  | <0.0005   | <0.001  | 0.037  | <0.002   | 0.006   | <0.0002 | <0.002     | 0.04   | <0.002 | <0.004   | <0.004   | <0.01    | 0.002    | 0.62  |
| LF-2       | 7-Sep-95    | <0.001 | <0.002  | 0.019  | <0.0005   | 0.001   | 0.040  | <0.002   | 0.004   | <0.0002 | <0.002     | 0.032  | <0.002 | <0.004   | <0.004   | <0.01    | <0.001   | 0.50  |
| LF-122 dup | 7-Sep-95    | <0.001 | <0.002  | 0.020  | <0.0005   | <0.001  | 0.042  | <0.002   | 0.005   | <0.0002 | <0.002     | 0.027  | <0.002 | <0.004   | <0.004   | <0.01    | <0.001   | 0.50  |
| LF-2       | 19-Dec-95   | <0.001 | <0.002  | 0.020  | <0.0005   | <0.001  | 0.043  | <0.002   | 0.002   | <0.0002 | <0.002     | 0.045  | <0.002 | <0.004   | <0.004   | <0.01    | 0.001    | 0.74  |
| LF-2       | 1-Mar-96    | <0.001 | 0.002   | 0.018  | <0.0005   | <0.001  | 0.039  | <0.002   | 0.004   | <0.0002 | <0.002     | 0.036  | <0.005 | <0.004   | <0.004   | 0.01     | 0.001    | 0.65  |
| LF-2       | 2-May-96    | 0.001  | <0.002  | 0.018  | <0.0005   | <0.001  | 0.034  | <0.002   | 0.003   | <0.0002 | <0.002     | 0.026  | <0.002 | <0.004   | <0.004   | 0.02     | <0.001   | 0.53  |
| LF-102 dup | 2-May-96    | 0.001  | <0.002  | 0.019  | <0.0005   | <0.001  | 0.035  | <0.002   | 0.005   | <0.0002 | <0.002     | 0.02   | <0.002 | <0.004   | <0.004   | <0.01    | <0.001   | 0.37  |
| LF-2       | 24-Sep-96   | <0.001 | <0.002  | 0.018  | <0.0005   | <0.001  | 0.035  | <0.002   | 0.003   | <0.0002 | <0.002     | 0.026  | <0.005 | <0.004   | <0.004   | <0.01    | <0.001   | 0.45  |
| LF-3       | 4-Nov-91    | <0.002 | 3.1     | 0.077  | 0.001     | <0.005  | 0.016  | <0.01    | <0.004  | <0.0003 | 0.16       | 0.012  | <0.005 | <0.02    | <0.004   | <0.1     | 0.006    | 3.1   |
| LF-3       | 27-Oct-92   | <0.005 | 3.6     | 0.11   | 0.004     | 0.013   | 0.029  | <0.01    | <0.01   | <0.0003 | 0.22       | 0.02   | <0.04  | <0.02    | 0.018    | <0.1     | <0.005   | 12    |
| LF-3       | 4-Mar-93    | <0.005 | 4.9     | 0.07   | 0.003     | 0.012   | 0.023  | <0.01    | <0.01   | <0.0003 | 0.18       | 0.04   | <0.04  | <0.02    | <0.02    | <0.1     | <0.005   | 15    |
| LF-3       | 25-May-93   | <0.005 | 3.4     | 0.11   | <0.002    | 0.004   | 0.01   | <0.01    | <0.003  | <0.0003 | 0.13       | 0.01   | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 5.8   |
| LF-3       | 31-Aug-93   | <0.005 | 4.9     | <0.05  | 0.003     | 0.023   | 0.019  | <0.01    | <0.01   | <0.0003 | 0.15       | 0.01   | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 8.6   |
| LF-3       | 25-Oct-93   | <0.005 | 7.3     | 0.08   | <0.002    | 0.005   | 0.013  | <0.01    | <0.01   | <0.0003 | 0.13       | 0.02   | <0.04  | <0.02    | <0.02    | <0.1     | <0.005   | 6.2   |
| LF-3       | 16-Feb-94   | <0.005 | 3.4     | 0.1    | <0.002    | <0.005  | 0.012  | <0.01    | <0.01   | <0.0002 | 0.11       | 0.01   | <0.04  | <0.02    | <0.01    | <0.1     | <0.005   | 5     |
| LF-3       | 25-May-94   | <0.001 | 2.4     | 0.08   | 0.0009    | <0.001  | 0.009  | 0.002    | <0.0002 | <0.0002 | 0.11       | 0.008  | <0.003 | <0.005   | <0.02    | <0.02    | <0.001   | 4.1   |
| LF-103 dup | 25-May-94   | 0.001  | 2.8     | 0.08   | 0.0013    | <0.001  | 0.011  | <0.002   | <0.0002 | <0.0002 | 0.11       | 0.008  | <0.003 | <0.005   | <0.02    | <0.02    | <0.001   | 5.2   |
| LF-3       | 23-Sep-94   | <0.001 | 2.2     | 0.05   | 0.0014    | <0.001  | 0.011  | 0.002    | <0.0002 | <0.0002 | 0.095      | 0.007  | <0.005 | <0.005   | <0.2     | <0.02    | 0.004    | 5.5   |
| LF-103 dup | 23-Sep-94   | <0.001 | 2.3     | 0.06   | 0.001     | <0.001  | 0.009  | 0.004    | 0.007   | <0.0002 | 0.095      | 0.007  | <0.005 | <0.005   | <0.2     | <0.02    | 0.003    | 4.1   |

**Table 2**  
**Metals Detected in Groundwater Samples**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**  
(Concentrations reported in parts per million [ppm])

| Sample ID  | Sample Date | Silver  | Arsenic | Barium | Beryllium | Cadmium | Cobalt  | Chromium | Copper  | Mercury  | Molybdenum | Nickel  | Lead    | Antimony | Selenium | Thallium | Vanadium | Zinc  |
|------------|-------------|---------|---------|--------|-----------|---------|---------|----------|---------|----------|------------|---------|---------|----------|----------|----------|----------|-------|
| LF-3       | 20-Dec-94   | < 0.001 | 3.6     | 0.09   | 0.0013    | < 0.001 | 0.012   | 0.005    | 0.026   | < 0.0002 | 0.11       | 0.011   | < 0.002 | < 0.005  | < 0.04   | < 0.02   | 0.012    | 6.2   |
| LF-103 dup | 20-Dec-94   | < 0.001 | 4.5     | 0.04   | 0.0017    | < 0.001 | 0.014   | 0.003    | < 0.002 | 0.13     | 0.011      | < 0.002 | < 0.005 | < 0.04   | 0.02     | 0.01     | 8.5      |       |
| LF-3       | 15-Mar-95   | < 0.001 | 2.8     | 0.15   | 0.001     | < 0.001 | 0.008   | 0.004    | 0.003   | < 0.0002 | 0.086      | 0.007   | < 0.002 | < 0.004  | < 0.04   | < 0.01   | 0.011    | 4.3   |
| LF-3       | 7-Jun-95    | < 0.001 | 5.6     | 0.057  | 0.0018    | < 0.001 | 0.014   | 0.003    | 0.003   | < 0.0002 | 0.13       | 0.012   | < 0.002 | < 0.004  | < 0.04   | < 0.01   | 0.013    | 9.9   |
| LF-3       | 7-Sep-95    | < 0.001 | 3.0     | 0.13   | 0.0017    | < 0.001 | 0.011   | 0.004    | < 0.002 | < 0.0002 | 0.12       | 0.008   | < 0.002 | < 0.004  | < 0.2    | 0.02     | 0.013    | 5.4   |
| LF-3       | 18-Dec-95   | < 0.001 | 4.2     | 0.06   | 0.002     | 0.015   | 0.013   | 0.004    | < 0.002 | < 0.0002 | 0.13       | 0.012   | < 0.005 | < 0.004  | 0.019    | < 0.01   | 0.01     | 8.4   |
| LF-103 dup | 18-Dec-95   | < 0.001 | 4.2     | 0.12   | 0.001     | 0.011   | 0.009   | 0.005    | < 0.002 | < 0.0002 | 0.098      | 0.01    | < 0.005 | < 0.004  | < 0.02   | < 0.01   | 0.011    | 5.1   |
| LF-3       | 1-Mar-96    | < 0.001 | 2.7     | 0.096  | 0.001     | < 0.001 | 0.008   | 0.002    | < 0.002 | < 0.0002 | 0.08       | 0.007   | < 0.005 | < 0.004  | < 0.1    | 0.01     | 0.001    | 3.7   |
| LF-3       | 2-May-96    | < 0.001 | 3.3     | 0.11   | < 0.0005  | 0.002   | 0.009   | < 0.002  | < 0.002 | < 0.0002 | 0.082      | 0.007   | < 0.005 | < 0.004  | < 0.004  | 0.02     | 0.001    | 5.2   |
| LF-3       | 24-Sep-96   | < 0.001 | 4.6     | 0.068  | 0.001     | 0.051   | 0.009   | < 0.002  | 0.005   | < 0.0002 | 0.096      | 0.008   | < 0.005 | < 0.004  | < 0.1    | 0.02     | < 0.001  | 4.8   |
| LF-4       | 4-Nov-91    | < 0.002 | 0.026   | 0.082  | < 0.001   | < 0.005 | < 0.005 | < 0.01   | < 0.004 | < 0.0003 | < 0.01     | 0.013   | < 0.005 | 0.03     | < 0.004  | < 0.1    | 0.01     | 0.034 |
| LF-4       | 27-Oct-92   | < 0.005 | 0.034   | < 0.05 | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | 0.03    | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 0.012 |
| LF-4       | 4-Mar-93    | < 0.005 | 0.017   | 0.11   | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | 0.05    | < 0.04  | 0.02     | < 0.004  | < 0.1    | 0.008    | 0.04  |
| LF-4       | 24-May-93   | < 0.005 | 0.013   | 0.22   | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | 0.03    | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 0.035 |
| LF-4       | 31-Aug-93   | < 0.005 | 0.052   | 0.08   | < 0.002   | < 0.005 | 0.006   | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | 0.04    | < 0.04  | < 0.02   | < 0.004  | < 0.1    | 0.009    | 0.038 |
| LF-4       | 25-Oct-93   | < 0.005 | 0.014   | 0.12   | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | 0.04    | < 0.04  | < 0.02   | < 0.004  | < 0.1    | 0.015    | 0.068 |
| LF-4       | 16-Feb-94   | < 0.005 | 0.008   | 0.29   | < 0.002   | < 0.005 | 0.006   | < 0.01   | < 0.01  | < 0.0002 | < 0.01     | 0.04    | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 0.05  |
| LF-4       | 22-Sep-94   | < 0.001 | 0.005   | 0.19   | < 0.0005  | 0.001   | 0.003   | < 0.002  | 0.003   | < 0.0002 | < 0.002    | 0.037   | < 0.005 | 0.007    | < 0.004  | < 0.02   | 0.007    | 0.067 |
| LF-4       | 15-Mar-95   | < 0.001 | 0.008   | 0.34   | < 0.0005  | 0.001   | 0.005   | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 0.037   | < 0.002 | < 0.004  | < 0.004  | < 0.01   | 0.002    | 0.064 |
| LF-4       | 7-Sep-95    | < 0.001 | 0.012   | 0.15   | < 0.0005  | 0.001   | 0.004   | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 0.048   | < 0.002 | < 0.004  | < 0.004  | < 0.01   | 0.002    | 0.24  |
| LF-4       | 1-Mar-96    | < 0.001 | 0.013   | 0.13   | < 0.0005  | < 0.001 | 0.004   | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 0.048   | < 0.005 | < 0.004  | < 0.004  | < 0.01   | 0.002    | 0.031 |
| LF-4-dup   | 1-Mar-96    | < 0.001 | 0.007   | 0.36   | < 0.0005  | < 0.001 | 0.005   | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 0.026   | < 0.005 | < 0.004  | < 0.004  | < 0.01   | 0.002    | 0.047 |
| LF-4       | 24-Sep-96   | < 0.001 | 0.013   | 0.12   | < 0.0005  | < 0.001 | 0.003   | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 0.031   | < 0.002 | < 0.004  | < 0.004  | < 0.01   | 0.001    | 0.053 |
| LF-5       | 4-Nov-91    | 0.004   | < 0.002 | 0.018  | < 0.001   | 0.049   | 0.03    | < 0.01   | < 0.005 | 0.0004   | < 0.01     | 0.23    | < 0.005 | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 11    |
| LF-5       | 27-Oct-92   | 0.022   | 0.005   | < 0.05 | < 0.002   | 0.24    | 1.4     | < 0.01   | < 0.003 | < 0.01   | 5.4        | < 0.04  | < 0.02  | 0.017    | < 0.1    | < 0.005  | 35       |       |
| LF-5       | 4-Mar-93    | 0.021   | < 0.005 | < 0.05 | < 0.002   | 0.21    | 1.1     | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | 5       | < 0.04  | < 0.02   | < 0.01   | < 0.1    | < 0.005  | 36    |
| LF-5       | 25-May-93   | 0.01    | < 0.002 | < 0.05 | < 0.002   | 0.17    | 0.84    | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | 3.2     | < 0.04  | < 0.02   | < 0.004  | 0.2      | < 0.005  | 23    |
| LF-5       | 31-Aug-93   | 0.013   | 0.02    | < 0.05 | < 0.002   | 0.25    | 1.3     | < 0.01   | < 0.003 | < 0.01   | 4.6        | < 0.04  | < 0.02  | < 0.02   | 0.2      | < 0.005  | 38       |       |
| LF-5       | 26-Oct-93   | 0.011   | 0.052   | < 0.05 | < 0.002   | 0.28    | 1.4     | < 0.01   | 0.01    | < 0.0003 | < 0.01     | 5.3     | < 0.07  | < 0.02   | < 0.04   | 0.3      | 0.01     | 51    |
| LF-5       | 16-Feb-94   | 0.009   | < 0.02  | < 0.05 | < 0.002   | 0.16    | 0.95    | < 0.01   | < 0.01  | < 0.0002 | < 0.01     | 3.3     | < 0.04  | < 0.02   | < 0.04   | 0.1      | < 0.005  | 28    |
| LF-5       | 24-May-94   | 0.008   | < 0.005 | 0.01   | < 0.0005  | 0.14    | 0.71    | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 2.4     | < 0.01  | < 0.005  | < 0.01   | 0.09     | 0.002    | 23    |
| LF-5       | 21-Sep-94   | 0.006   | < 0.01  | 0.01   | < 0.0005  | 0.17    | 0.81    | 0.003    | 0.003   | < 0.0002 | < 0.002    | 2.5     | < 0.01  | < 0.005  | < 0.02   | 0.03     | < 0.001  | 25    |
| LF-5       | 19-Dec-94   | 0.007   | < 0.01  | 0.01   | < 0.0005  | 0.25    | 1.2     | 0.003    | < 0.002 | < 0.0002 | 3.8        | < 0.008 | < 0.005 | 0.02     | 0.08     | < 0.001  | 58       |       |
| LF-5       | 14-Mar-95   | 0.004   | < 0.02  | 0.013  | < 0.0005  | 0.11    | 0.61    | 0.004    | 0.003   | < 0.0002 | 2.6        | < 0.01  | < 0.004 | < 0.04   | 0.06     | 0.003    | 25       |       |
| LF-5       | 7-Jun-95    | 0.006   | < 0.01  | 0.015  | < 0.0005  | 0.31    | 1.5     | 0.006    | 0.005   | < 0.0002 | 5          | < 0.02  | < 0.004 | < 0.02   | 0.05     | 0.001    | 76       |       |
| LF-5       | 7-Sep-95    | 0.004   | < 0.005 | 0.014  | < 0.0005  | 0.31    | 1.5     | 0.006    | 0.005   | < 0.0002 | 4.8        | < 0.01  | < 0.004 | < 0.004  | 0.04     | < 0.001  | 38       |       |
| LF-5       | 18-Dec-95   | 0.003   | < 0.005 | 0.017  | < 0.0005  | 0.2     | 0.99    | 0.004    | 0.002   | < 0.0002 | 3.1        | < 0.005 | < 0.01  | 0.12     | 0.003    | 47       |          |       |
| LF-5       | 29-Feb-96   | < 0.001 | < 0.01  | 0.11   | < 0.0005  | 0.01    | 0.034   | < 0.002  | 0.002   | < 0.0002 | 0.17       | < 0.01  | < 0.004 | < 0.02   | < 0.01   | 0.002    | 2.6      |       |
| LF-5       | 2-May-96    | 0.019   | < 0.005 | 0.012  | < 0.0005  | 0.72    | 4       | < 0.002  | 0.007   | < 0.0002 | 12         | < 0.005 | < 0.004 | < 0.01   | 0.07     | < 0.001  | 150      |       |
| LF-5       | 24-Sep-96   | 0.014   | < 0.01  | 0.014  | < 0.0005  | 0.32    | 1.3     | < 0.002  | 0.009   | < 0.0002 | 3.8        | < 0.01  | < 0.004 | < 0.02   | 0.03     | < 0.001  | 64       |       |
| LF-6       | 5-Nov-91    | 0.011   | 0.008   | 0.019  | < 0.001   | 0.079   | 0.58    | < 0.01   | < 0.005 | 0.0009   | < 0.01     | 2.1     | 0.009   | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 8.1   |
| LF-6       | 27-Oct-92   | 0.02    | 0.022   | < 0.05 | < 0.002   | 0.17    | 1.6     | < 0.01   | < 0.01  | < 0.0003 | 5.5        | < 0.04  | < 0.02  | 0.012    | < 0.1    | < 0.005  | 23       |       |
| LF-6       | 4-Mar-93    | 0.013   | 0.007   | < 0.05 | 0.003     | 0.13    | 1.2     | < 0.01   | < 0.01  | < 0.0003 | 4.2        | < 0.04  | < 0.02  | < 0.004  | < 0.1    | < 0.005  | 17       |       |
| LF-6       | 24-May-93   | 0.008   | < 0.002 | < 0.05 | < 0.002   | 0.13    | 0.97    | < 0.01   | 0.01    | < 0.0003 | 3.4        | < 0.04  | < 0.02  | < 0.004  | 0.1      | < 0.005  | 13       |       |
| LF-6       | 31-Aug-93   | 0.009   | 0.014   | < 0.05 | 0.003     | 0.13    | 1       | < 0.01   | 0.01    | < 0.0003 | 3.7        | < 0.04  | < 0.02  | < 0.004  | 0.1      | < 0.005  | 14       |       |
| LF-6       | 26-Oct-93   | 0.005   | < 0.002 | < 0.05 | 0.003     | 0.15    | 1       | < 0.01   | 0.02    | < 0.0003 | 3.7        | < 0.04  | < 0.02  | < 0.004  | 0.1      | < 0.005  | 17       |       |
| LF-6       | 16-Feb-94   | 0.007   | 0.016   | < 0.05 | 0.003     | 0.11    | 0.97    | < 0.01   | < 0.01  | < 0.0002 | 3.4        | < 0.04  | < 0.02  | < 0.004  | 0.1      | < 0.005  | 13       |       |
| LF-6       | 21-Sep-94   | 0.004   | < 0.002 | 0.01   | 0.0023    | 0.099   | 0.84    | < 0.002  | 0.011   | < 0.0002 | 2.8        | < 0.005 | < 0.005 | < 0.004  | 0.02     | < 0.001  | 11       |       |
| LF-6       | 16-Mar-95   | 0.003   | < 0.002 | 0.01   | 0.0023    | 0.091   | 0.74    | 0.002    | 0.01    | < 0.0002 | 2.6        | < 0.005 | < 0.004 | 0.06     | 0.001    | 10       |          |       |
| LF-6       | 6-Sep-95    | 0.002   | < 0.002 | 0.011  | 0.0022    | 0.094   | 0.79    | 0.004    | 0.009   | < 0.0002 | 2.8        | < 0.005 | < 0.004 | 0.07     | < 0.001  | 10       |          |       |
| LF-6       | 29-Feb-96   | 0.003   | < 0.002 | 0.009  | 0.0024    | 0.098   | 0.81    | < 0.002  | 0.009   | < 0.0002 | 2.8        | < 0.005 | < 0.004 | 0.05     | < 0.001  | 11       |          |       |
| LF-6       | 25-Sep-96   | 0.007   | < 0.002 | 0.013  | 0.0022    | 0.093   | 0.83    | < 0.002  | 0.009   | < 0.0002 | 2.9        | < 0.002 | < 0.004 | < 0.004  | 0.04     | < 0.001  | 11       |       |

Table 2

## Metals Detected in Groundwater Samples

5050 Coliseum Way and 750-50th Avenue

Oakland, California

(Concentrations reported in parts per million [ppm])

| Sample ID  | Sample Date | Silver  | Arsenic | Barium  | Beryllium | Cadmium | Cobalt  | Chromium | Copper  | Mercury  | Molybdenum | Nickel  | Lead    | Antimony | Selenium | Thallium | Vanadium | Zinc    |
|------------|-------------|---------|---------|---------|-----------|---------|---------|----------|---------|----------|------------|---------|---------|----------|----------|----------|----------|---------|
| LF-7       | 5-Nov-91    | < 0.002 | 0.004   | 0.13    | < 0.001   | < 0.005 | < 0.005 | < 0.01   | 0.006   | 0.0011   | < 0.01     | 0.01    | < 0.005 | < 0.02   | < 0.004  | < 0.1    | 0.006    | < 0.005 |
| LF-7       | 27-Oct-92   | < 0.005 | 0.03    | 0.11    | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | 0.01       | 0.01    | < 0.04  | < 0.02   | < 0.004  | < 0.1    | 0.008    | 0.021   |
| LF-7       | 4-Mar-93    | < 0.005 | 0.025   | 0.08    | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | 0.01       | 0.01    | < 0.04  | < 0.02   | < 0.01   | < 0.1    | 0.009    | 0.01    |
| LF-7       | 24-May-93   | < 0.005 | 0.003   | 0.08    | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | < 0.01  | < 0.04  | < 0.02   | < 0.004  | < 0.1    | 0.006    | 0.007   |
| LF-7       | 31-Aug-93   | < 0.005 | 0.013   | 0.08    | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | < 0.01  | < 0.04  | < 0.02   | < 0.004  | < 0.1    | 0.006    | 0.021   |
| LF-7       | 25-Oct-93   | < 0.005 | < 0.002 | 0.09    | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | < 0.01  | < 0.04  | < 0.02   | < 0.004  | < 0.1    | 0.006    | 0.011   |
| LF-7       | 16-Feb-94   | < 0.005 | 0.014   | 0.12    | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0002 | < 0.01     | 0.02    | < 0.04  | < 0.02   | < 0.004  | < 0.1    | 0.005    | 0.01    |
| LF-7       | 21-Sep-94   | < 0.001 | < 0.002 | 0.1     | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.006      | 0.01    | < 0.005 | < 0.005  | < 0.004  | < 0.02   | 0.006    | 0.012   |
| LF-7       | 15-Mar-95   | < 0.001 | 0.004   | 0.24    | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.005      | 0.011   | < 0.005 | < 0.004  | < 0.004  | < 0.01   | 0.006    | 0.033   |
| LF-7       | 6-Sep-95    | < 0.001 | 0.017   | 0.18    | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.006      | 0.012   | < 0.005 | < 0.004  | < 0.004  | < 0.01   | 0.007    | 0.001   |
| LF-7       | 28-Feb-96   | < 0.001 | 0.035   | 0.3     | < 0.0005  | < 0.001 | 0.001   | < 0.002  | 0.003   | < 0.0002 | 0.007      | 0.013   | < 0.005 | < 0.004  | < 0.004  | < 0.01   | 0.006    | 0.006   |
| LF-7       | 25-Sep-96   | < 0.001 | 0.035   | 0.24    | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.007      | 0.014   | < 0.002 | < 0.004  | < 0.004  | < 0.01   | 0.007    | 0.023   |
| LF-8       | 27-Oct-93   | < 0.005 | 2.6     | 0.16    | < 0.002   | < 0.005 | 0.006   | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | 0.01    | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 0.022   |
| LF-8       | 16-Feb-94   | < 0.005 | 2.3     | 0.33    | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0002 | < 0.01     | < 0.01  | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | < 0.01  |
| LF-8       | 24-May-94   | < 0.001 | 2.5     | 0.2     | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.004      | < 0.003 | < 0.003 | < 0.005  | < 0.02   | < 0.02   | 0.004    | 0.015   |
| LF-8       | 23-Sep-94   | < 0.001 | 3.4     | 0.32    | < 0.0005  | 0.002   | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.003      | < 0.005 | < 0.005 | < 0.004  | < 0.02   | 0.005    | 0.024    |         |
| LF-8       | 20-Dec-94   | < 0.001 | 2       | 0.39    | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.004      | < 0.002 | < 0.005 | < 0.005  | < 0.04   | < 0.02   | 0.004    | 0.015   |
| LF-8       | 15-Mar-95   | < 0.001 | 2       | 0.072   | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.002      | 0.003   | < 0.002 | < 0.004  | < 0.04   | < 0.01   | 0.002    | 0.017   |
| LF-8       | 9-Jun-95    | < 0.001 | 3.2     | 0.093   | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.003      | < 0.002 | < 0.004 | < 0.04   | < 0.01   | 0.003    | 0.052    |         |
| LF-8       | 7-Sep-95    | < 0.001 | 2.4     | 0.092   | < 0.0005  | < 0.001 | 0.001   | < 0.002  | < 0.002 | < 0.0002 | 0.002      | < 0.002 | < 0.004 | < 0.04   | < 0.2    | < 0.01   | 0.003    | 0.02    |
| LF-8       | 18-Dec-95   | < 0.001 | 3.4     | 0.17    | < 0.0005  | 0.007   | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.005      | < 0.005 | < 0.004 | < 0.02   | < 0.01   | 0.002    | 0.013    |         |
| LF-8       | 29-Feb-96   | < 0.001 | 1.7     | 0.1     | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.005      | < 0.005 | < 0.004 | < 0.004  | < 0.01   | 0.002    | 0.066    |         |
| LF-8       | 2-May-96    | < 0.001 | 2.1     | 0.066   | < 0.0005  | 0.001   | 0.001   | < 0.002  | < 0.002 | < 0.0002 | 0.003      | < 0.002 | < 0.004 | < 0.004  | < 0.01   | < 0.001  | 0.02     |         |
| LF-8       | 25-Sep-96   | < 0.001 | 3.2     | 0.058   | < 0.0005  | 0.025   | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | 0.002      | < 0.002 | < 0.004 | < 0.004  | < 0.01   | < 0.001  | 0.036    |         |
| LF-9       | 1-Nov-93    | < 0.005 | 0.009   | < 0.05  | < 0.002   | 0.041   | 0.56    | < 0.01   | 0.02    | < 0.0003 | < 0.01     | 0.86    | < 0.04  | < 0.02   | < 0.02   | < 0.1    | < 0.005  | 14      |
| LF-109 dup | 1-Nov-93    | < 0.005 | 0.015   | < 0.05  | < 0.002   | 0.034   | 0.46    | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | 0.71    | < 0.04  | < 0.02   | < 0.02   | < 0.1    | < 0.005  | 14      |
| LF-9       | 17-Feb-94   | < 0.005 | 0.064   | < 0.05  | < 0.002   | 0.12    | 0.016   | < 0.01   | < 0.01  | < 0.0002 | < 0.01     | 0.1     | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 31      |
| LF-9       | 21-Sep-94   | < 0.001 | 0.18    | 0.02    | < 0.0005  | 0.008   | 0.023   | < 0.002  | < 0.002 | < 0.0002 | 0.004      | 0.072   | < 0.005 | 0.006    | < 0.01   | < 0.02   | 0.002    | 20      |
| LF-9       | 13-Mar-95   | < 0.001 | 0.15    | 0.021   | < 0.0005  | 0.01    | 0.028   | < 0.002  | 0.004   | < 0.0002 | 0.003      | 0.085   | < 0.005 | < 0.004  | < 0.01   | < 0.02   | 0.003    | 26      |
| LF-9       | 8-Sep-95    | < 0.001 | 0.19    | 0.014   | < 0.0005  | 0.020   | 0.026   | < 0.002  | < 0.002 | < 0.0002 | 0.005      | 0.087   | < 0.005 | < 0.004  | < 0.02   | < 0.01   | 0.003    | 25      |
| LF-9       | 29-Feb-96   | < 0.001 | 0.16    | 0.014   | < 0.0005  | 0.054   | 0.025   | < 0.002  | < 0.002 | < 0.0002 | 0.003      | 0.099   | < 0.005 | 0.006    | < 0.01   | 0.02     | 0.002    | 34      |
| LF-9       | 25-Sep-96   | < 0.001 | 0.22    | 0.015   | < 0.0005  | 0.048   | 0.031   | < 0.002  | < 0.002 | < 0.0002 | 0.005      | 0.096   | < 0.002 | < 0.004  | < 0.01   | 0.02     | < 0.001  | 33      |
| LF-10      | 28-Oct-93   | < 0.005 | 0.04    | 0.77    | < 0.002   | 0.02    | 0.019   | 0.07     | 0.04    | < 0.0003 | < 0.01     | 0.17    | < 0.04  | < 0.02   | < 0.04   | < 0.1    | 0.048    | 2       |
| LF-10      | 16-Feb-94   | < 0.005 | < 0.05  | < 0.002 | 0.005     | 0.018   | < 0.01  | < 0.01   | < 0.002 | < 0.0002 | 0.003      | < 0.01  | 0.12    | < 0.04   | < 0.02   | < 0.1    | < 0.008  | 0.21    |
| LF-10      | 22-Sep-94   | 0.001   | < 0.005 | 0.02    | < 0.0005  | 0.002   | 0.008   | < 0.002  | 0.005   | < 0.0002 | 0.003      | < 0.002 | 0.083   | < 0.01   | < 0.005  | < 0.01   | < 0.02   | 0.075   |
| LF-10      | 15-Mar-95   | < 0.001 | < 0.02  | 0.018   | < 0.0005  | 0.001   | 0.018   | < 0.002  | 0.006   | < 0.0002 | 0.003      | < 0.002 | 0.083   | < 0.01   | < 0.004  | < 0.01   | < 0.02   | 0.13    |
| LF-10      | 7-Sep-95    | < 0.001 | < 0.005 | 0.016   | < 0.0005  | 0.002   | 0.007   | < 0.002  | 0.007   | < 0.0002 | 0.003      | < 0.002 | 0.092   | 0.011    | < 0.004  | < 0.01   | < 0.01   | 0.04    |
| LF-10      | 29-Feb-96   | < 0.001 | 0.006   | 0.014   | < 0.0005  | 0.001   | 0.007   | < 0.002  | 0.007   | < 0.0002 | 0.002      | 0.093   | < 0.002 | < 0.004  | < 0.01   | 0.01     | < 0.004  | 0.2     |
| LF-10      | 24-Sep-96   | < 0.001 | < 0.005 | 0.013   | < 0.0005  | < 0.001 | 0.007   | < 0.002  | 0.010   | < 0.0002 | 0.002      | 0.083   | < 0.002 | < 0.004  | < 0.01   | 0.01     | < 0.004  | 0.061   |
| LF-11      | 28-Oct-93   | < 0.005 | 0.07    | 0.1     | < 0.002   | 120     | 5.9     | < 0.01   | 3       | < 0.0003 | < 0.01     | 28      | 6       | < 0.02   | < 0.04   | < 0.1    | 2        | 47000   |
| LF-11      | 18-Feb-94   | < 0.5   | < 0.02  | < 5     | < 0.2     | 140     | 8.4     | < 1      | 4       | < 0.0002 | < 1        | 37      | < 4     | < 2      | < 0.02   | < 10     | < 0.5    | 44000   |
| LF-11 dup  | 18-Feb-94   | < 0.5   | < 0.02  | < 5     | < 0.2     | 140     | 9.4     | < 1      | 4       | < 0.0002 | < 1        | 40      | < 4     | < 2      | < 0.02   | < 10     | < 0.5    | 46000   |
| LF-11      | 23-Sep-94   | 0.5     | < 0.02  | < 0.01  | 0.2       | 130     | 7.1     | < 1      | 5       | < 0.0002 | < 1        | 32      | 0.41    | < 2      | < 0.04   | < 10     | < 0.5    | 33000   |
| LF-11      | 15-Mar-95   | < 0.5   | < 0.01  | < 1     | < 0.2     | 91      | 4.9     | < 1      | 3       | < 0.0002 | < 1        | 22      | 0.08    | < 20     | < 0.04   | < 50     | < 5      | 37000   |
| LF-11      | 8-Jun-95    | < 5     | < 0.02  | < 1     | < 3       | 99      | < 5     | < 10     | < 10    | < 0.0002 | < 10       | 21      | 0.09    | < 20     | < 0.04   | < 50     | < 5      | 37000   |
| LF-11      | 7-Sep-95    | < 0.5   | < 0.01  | < 1     | < 0.2     | 120     | 6.5     | < 1      | 5       | < 0.0002 | < 1        | 26      | 0.04    | < 2      | < 0.02   | < 5      | < 0.5    | 37000   |
| LF-11      | 18-Dec-95   | < 5     | 0.31    | < 1     | < 3       | 110     | 6       | < 10     | < 10    | < 0.0002 | < 10       | 25      | 0.021   | < 20     | < 0.08   | < 50     | < 5      | 37000   |
| LF-11      | 29-Feb-96   | < 0.5   | < 0.01  | < 1     | < 0.2     | 120     | 6.2     | < 1      | 5       | < 0.0002 | < 1        | 25      | 0.13    | < 2      | < 0.02   | < 5      | < 0.5    | 42000   |
| LF-11      | 2-May-96    | < 0.5   | < 0.02  | < 1     | < 0.2     | 96      | 6       | < 1      | 4       | < 0.0002 | 1          | 21      | 0.07    | < 2      | < 0.04   | < 5      | < 0.5    | 34000   |
| LF-11      | 25-Sep-96   | < 1     | < 0.01  | < 2     | < 0.4     | 130     | 7       | < 2      | 5       | < 0.0002 | < 2        | 24      | < 0.1   | < 4      | < 0.02   | < 10     | < 1      | 40000   |
| LF-11 Dup  | 25-Sep-96   | < 1     | < 0.01  | < 2     | < 0.4     | 130     | 6       | < 2      | 5       | < 0.0002 | 2          | 24      | < 0.1   | < 4</td  |          |          |          |         |

**Table 2**  
**Metals Detected in Groundwater Samples**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**  
(Concentrations reported in parts per million (ppm))

| Sample ID | Sample Date | Silver  | Arsenic | Barium | Beryllium | Cadmium | Cobalt | Chromium | Copper  | Mercury  | Molybdenum | Nickel | Lead    | Antimony | Selenium | Thallium | Vanadium | Zinc   |
|-----------|-------------|---------|---------|--------|-----------|---------|--------|----------|---------|----------|------------|--------|---------|----------|----------|----------|----------|--------|
| LF-12     | 1-Nov-93    | < 0.05  | 0.022   | < 0.5  | < 0.02    | 3.7     | 2.7    | < 0.1    | 0.9     | < 0.0003 | < 0.1      | 8.1    | < 0.4   | < 0.2    | 0.014    | < 1      | < 0.05   | 3400   |
| LF-12     | 17-Feb-94   | < 0.05  | 0.004   | < 0.5  | < 0.02    | 2.9     | 1.9    | < 0.1    | 0.7     | < 0.0002 | < 0.1      | 5.9    | < 0.4   | < 0.2    | 0.014    | < 1      | < 0.05   | 2700   |
| LF-12     | 24-May-94   | < 0.05  | 0.008   | < 0.05 | < 0.02    | 3.6     | 2.4    | < 0.1    | 1       | < 0.0002 | < 0.1      | 7.1    | 0.049   | < 0.3    | 0.017    | < 1      | < 0.05   | 3100   |
| LF-12     | 22-Sep-94   | < 0.05  | < 0.005 | < 0.05 | 0.02      | 3.4     | 2.2    | < 0.1    | 1.1     | < 0.0002 | < 0.1      | 6.7    | 0.02    | < 0.2    | 0.02     | < 1      | < 0.05   | 3100   |
| LF-12     | 19-Dec-94   | < 0.05  | < 0.005 | < 0.5  | 0.02      | 3.5     | 2.3    | < 0.1    | 1.1     | < 0.0002 | < 0.1      | 6.9    | 0.01    | < 0.2    | 0.03     | < 1      | < 0.05   | 3200   |
| LF-12     | 15-Mar-95   | < 0.05  | < 0.002 | < 0.1  | 0.02      | 3       | 2      | < 0.1    | 1       | < 0.0002 | < 0.1      | 6.7    | < 0.005 | < 0.2    | 0.019    | < 0.5    | < 0.05   | 2600   |
| LF-12     | 7-Jun-95    | < 0.05  | < 0.005 | < 0.1  | 0.03      | 3.3     | 2.1    | < 0.1    | 1.2     | < 0.0002 | < 0.1      | 6.6    | < 0.005 | < 0.2    | 0.04     | < 0.5    | < 0.05   | 2900   |
| LF-12     | 6-Sep-95    | < 0.05  | < 0.005 | < 0.1  | 0.02      | 3.2     | 2.2    | < 0.1    | 1.3     | < 0.0002 | < 0.1      | 6.4    | 0.01    | < 0.2    | < 0.01   | < 0.5    | < 0.05   | 2900   |
| LF-12     | 18-Dec-95   | < 0.05  | < 0.002 | < 0.1  | < 0.03    | 3.8     | 2.1    | < 0.1    | 1.1     | < 0.0002 | < 0.1      | 6.6    | < 0.005 | < 0.2    | 0.055    | < 0.5    | < 0.05   | 3000   |
| LF-12     | 29-Feb-96   | < 0.05  | < 0.002 | < 0.1  | 0.02      | 3       | 2      | < 0.1    | 1.1     | 0.0002   | < 0.1      | 6.1    | 0.007   | < 0.2    | 0.048    | < 0.5    | < 0.05   | 2700   |
| LF-12     | 2-May-96    | < 0.05  | < 0.002 | < 0.1  | < 0.02    | 3       | 2      | < 0.1    | 1.2     | < 0.0002 | < 0.1      | 5.7    | 0.008   | < 0.2    | 0.039    | < 0.5    | < 0.05   | 2800   |
| LF-12     | 24-Sep-96   | < 0.05  | < 0.002 | < 0.1  | 0.03      | 3       | 2.2    | < 0.1    | 1.3     | 0.0006   | 0.1        | 6.1    | < 0.005 | < 0.2    | 0.041    | < 0.5    | < 0.05   | 2700   |
| LF-13     | 6-Dec-93    | < 0.005 | 3.3     | 0.24   | < 0.002   | < 0.005 | 0.007  | < 0.01   | < 0.01  | < 0.0003 | 0.04       | 0.01   | < 0.04  | < 0.02   | < 0.2    | < 0.1    | 0.061    | 0.03   |
| LF-14     | 8-Dec-93    | < 0.005 | 0.005   | < 0.05 | < 0.002   | 0.12    | 0.67   | < 0.01   | 0.68    | 0.0016   | < 0.01     | 1.6    | < 0.04  | < 0.02   | < 0.02   | < 0.1    | < 0.005  | 230    |
| LF-14     | 17-Feb-94   | < 0.005 | < 0.002 | < 0.05 | 0.002     | 0.16    | 0.96   | < 0.01   | 2.1     | < 0.0002 | < 0.01     | 2.4    | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 300    |
| LF-14     | 25-May-94   | < 0.005 | 0.004   | < 0.05 | 0.002     | 0.14    | 1      | < 0.01   | 3.5     | < 0.0002 | < 0.01     | 2.4    | 0.027   | < 0.03   | < 0.004  | 0.1      | < 0.005  | 340    |
| LF-14     | 21-Sep-94   | < 0.005 | < 0.002 | < 0.05 | < 0.002   | 0.065   | 0.59   | < 0.01   | 1.1     | < 0.0002 | < 0.01     | 1.4    | 0.022   | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 240    |
| LF-14     | 19-Dec-94   | < 0.005 | 0.004   | < 0.05 | 0.004     | 0.12    | 0.96   | < 0.01   | 2.9     | < 0.0002 | < 0.01     | 2.3    | 0.03    | < 0.02   | < 0.004  | < 0.1    | 0.042    | 370    |
| LF-14     | 15-Mar-95   | < 0.005 | < 0.002 | 0.01   | 0.004     | 0.12    | 0.86   | < 0.01   | 3.4     | < 0.0002 | < 0.01     | 2.3    | 0.017   | < 0.02   | < 0.004  | < 0.05   | < 0.005  | 340    |
| LF-14     | 8-Jun-95    | < 0.005 | 0.005   | 0.01   | 0.002     | 0.14    | 0.95   | < 0.01   | 1.7     | < 0.0002 | < 0.01     | 2.4    | 0.037   | < 0.02   | < 0.004  | 0.07     | 0.008    | 290    |
| LF-14     | 8-Sep-95    | < 0.005 | < 0.002 | 0.01   | 0.002     | 0.086   | 0.78   | < 0.01   | 2.8     | < 0.0002 | < 0.01     | 1.9    | 0.017   | < 0.02   | < 0.004  | 0.10     | 0.015    | 310    |
| LF-14     | 18-Dec-95   | < 0.005 | 0.018   | 0.01   | < 0.003   | 0.13    | 1.1    | < 0.01   | 1.4     | < 0.0002 | < 0.01     | 2.6    | 0.003   | < 0.02   | < 0.004  | < 0.05   | 0.011    | 290    |
| LF-14     | 1-Mar-96    | < 0.005 | 0.008   | 0.01   | 0.004     | 0.12    | 0.9    | < 0.01   | 3.5     | < 0.0002 | < 0.01     | 2.3    | 0.025   | < 0.02   | < 0.004  | 0.09     | 0.007    | 340    |
| LF-14     | 24-Sep-96   | < 0.005 | < 0.002 | 0.01   | 0.004     | 0.13    | 0.92   | < 0.01   | 3.8     | < 0.0002 | < 0.01     | 2.3    | 0.008   | < 0.02   | < 0.004  | 0.12     | < 0.005  | 340    |
| LF-15     | 6-Dec-93    | 0.032   | < 0.05  | 0.28   | 0.017     | 1.7     | 8.1    | < 0.01   | 0.14    | < 0.0003 | < 0.01     | 23     | 1.1     | < 0.02   | < 0.1    | 0.9      | < 0.005  | 640    |
| LF-15     | 18-Feb-94   | < 0.005 | 0.006   | < 0.5  | < 0.02    | 1.7     | 7.4    | < 0.1    | < 0.1   | < 0.0002 | < 0.1      | 20     | 0.6     | < 0.2    | < 0.04   | < 1      | < 0.05   | 660    |
| LF-15     | 21-Sep-94   | 0.02    | < 0.01  | < 0.05 | 0.027     | 2       | 11     | < 0.01   | < 0.01  | < 0.0002 | < 0.01     | 29     | 0.21    | < 0.02   | < 0.02   | 1.1      | < 0.005  | 220    |
| LF-15     | 13-Mar-95   | < 0.005 | < 0.002 | 0.01   | 0.019     | 1.5     | 8.8    | < 0.01   | < 0.01  | < 0.0002 | < 0.01     | 24     | 0.33    | < 0.02   | < 0.02   | 0.66     | < 0.005  | 550    |
| LF-15     | 8-Sep-95    | < 0.05  | < 0.01  | < 0.1  | < 0.02    | 2.1     | 14     | < 0.1    | < 0.1   | < 0.0002 | < 0.1      | 37     | 0.07    | < 0.2    | < 0.02   | 0.9      | < 0.05   | 570    |
| LF-15     | 29-Feb-96   | 0.014   | 0.003   | 0.01   | 0.031     | 1.8     | 12     | < 0.01   | 0.03    | < 0.0002 | < 0.01     | 32     | 0.078   | < 0.02   | < 0.02   | 1.4      | < 0.005  | 590    |
| LF-15     | 24-Sep-96   | 0.056   | < 0.01  | 0.01   | 0.024     | 1.8     | 11     | < 0.01   | < 0.01  | < 0.0002 | < 0.01     | 30     | 0.19    | < 0.02   | < 0.02   | 2.0      | < 0.005  | 550    |
| LF-16     | 7-Dec-93    | < 0.05  | < 0.5   | < 0.02 | 10        | 5.9     | < 0.1  | 0.4      | < 0.003 | < 0.1    | 16         | < 0.4  | < 0.2   | < 0.1    | < 1      | < 0.05   | 3400     |        |
| LF-16     | 17-Feb-94   | < 0.05  | < 0.002 | < 0.5  | 0.04      | 15      | 8.3    | < 0.1    | 21      | < 0.0002 | < 0.1      | 24     | < 0.4   | < 0.2    | < 0.04   | < 1      | < 0.05   | 5200   |
| LF-16     | 25-May-94   | < 0.05  | < 0.002 | < 0.5  | 0.02      | 12      | 7      | < 0.1    | 25      | < 0.0002 | < 0.1      | 20     | < 0.01  | < 0.3    | < 0.004  | < 1      | < 0.05   | 4100   |
| LF-16     | 21-Sep-94   | < 0.05  | < 0.005 | < 0.05 | 0.03      | 11      | 6.2    | < 0.1    | 22      | < 0.0002 | < 0.1      | 17     | < 0.05  | < 0.2    | < 0.01   | < 1      | < 0.05   | 3700   |
| LF-16     | 19-Dec-94   | < 0.05  | < 0.005 | < 0.5  | 0.03      | 10      | 6      | < 0.1    | 22      | < 0.0002 | < 0.1      | 17     | < 0.2   | < 0.2    | < 0.01   | < 1      | 0.08     | 3300   |
| LF-16     | 15-Mar-95   | < 0.05  | < 0.02  | < 0.1  | 0.03      | 8.2     | 4.9    | < 0.1    | 21      | < 0.0002 | < 0.1      | 16     | < 0.05  | < 0.2    | < 0.04   | < 0.5    | < 0.05   | 3300   |
| LF-16     | 8-Jun-95    | < 0.05  | 0.015   | < 0.1  | 0.03      | 8.2     | 5.1    | < 0.1    | 19      | < 0.0002 | < 0.1      | 15     | < 0.05  | < 0.2    | < 0.01   | < 0.5    | 0.06     | 2900   |
| LF-16     | 8-Sep-95    | < 0.05  | 0.006   | 0.3    | 0.02      | 8.4     | 5.6    | < 0.1    | 18      | < 0.0002 | < 0.1      | 15     | < 0.02  | < 0.2    | < 0.01   | 0.7      | < 0.05   | 2800   |
| LF-16     | 19-Dec-95   | < 0.05  | < 0.005 | < 0.1  | 0.02      | 7.5     | 4.6    | < 0.1    | 18      | < 0.0002 | < 0.1      | 13     | < 0.005 | < 0.2    | < 0.01   | < 0.5    | 0.07     | 2700   |
| LF-16     | 29-Feb-96   | < 0.05  | 0.01    | < 0.1  | 0.03      | 7.8     | 5.1    | < 0.1    | 16      | < 0.0002 | < 0.1      | 14     | < 0.005 | < 0.2    | 0.004    | < 0.5    | 0.05     | 2700   |
| LF-16     | 2-May-96    | < 0.05  | < 0.005 | < 0.1  | < 0.02    | 6.8     | 4.9    | < 0.1    | 16      | < 0.0002 | < 0.1      | 13     | < 0.005 | < 0.2    | < 0.01   | < 0.5    | < 0.05   | 2300   |
| LF-16     | 24-Sep-96   | < 0.05  | < 0.005 | < 0.1  | 0.02      | 7.1     | 4.6    | < 0.1    | 17      | < 0.0002 | < 0.1      | 12     | < 0.005 | < 0.2    | < 0.01   | 0.7      | < 0.05   | 2400   |
| LF-17     | 8-Dec-93    | < 0.005 | 0.004   | 0.11   | < 0.002   | < 0.005 | 0.011  | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | 0.04   | < 0.04  | < 0.02   | < 0.004  | < 0.1    | 0.008    | 0.1    |
| LF-17     | 15-Feb-94   | < 0.005 | < 0.002 | 0.05   | < 0.002   | < 0.005 | 0.009  | < 0.01   | < 0.01  | < 0.0002 | < 0.01     | 0.03   | < 0.04  | < 0.02   | < 0.004  | < 0.1    | 0.007    | 0.05   |
| LF-17     | 22-Sep-94   | < 0.001 | < 0.002 | 0.06   | < 0.0005  | < 0.001 | 0.005  | < 0.002  | < 0.002 | < 0.0002 | < 0.003    | 0.015  | < 0.005 | 0.005    | < 0.004  | < 0.02   | 0.006    | 0.035  |
| LF-17     | 14-Mar-95   | < 0.001 | < 0.002 | 0.065  | < 0.0005  | < 0.001 | 0.006  | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 0.022  | < 0.002 | < 0.004  | < 0.004  | 0.01     | 0.003    | 0.056  |
| LF-17     | 6-Sep-95    | < 0.001 | < 0.002 | 0.057  | < 0.0005  | < 0.001 | 0.004  | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 0.017  | < 0.002 | < 0.004  | < 0.004  | 0.01     | 0.004    | < 0.01 |
| LF-17     | 28-Feb-96   | < 0.001 | 0.002   | 0.087  | < 0.0005  | 0.005   | 0.007  | 0.01     | < 0.002 | < 0.0002 | < 0.002    | 0.023  | < 0.002 | < 0.004  | < 0.004  | < 0.01   | 0.003    | 0.092  |
| LF-17     | 25-Sep-96   | < 0.001 | 0.003   | 0.066  | < 0.0005  | 0.002   | 0.004  | < 0.002  | < 0.002 | < 0.0002 | 0.002      | 0.018  | < 0.002 | < 0.004  | < 0.004  | < 0.01   | 0.004    | 0.041  |

Table 2

**Metals Detected in Groundwater Samples**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**  
 (Concentrations reported in parts per million [ppm])

| Sample ID | Sample Date | Silver | Arsenic | Barium | Beryllium | Cadmium | Cobalt | Chromium | Copper  | Mercury | Molybdenum | Nickel | Lead   | Antimony | Selenium | Thallium | Vanadium | Zinc  |
|-----------|-------------|--------|---------|--------|-----------|---------|--------|----------|---------|---------|------------|--------|--------|----------|----------|----------|----------|-------|
| LF-F1     | 8-Dec-93    | <0.005 | 0.012   | 0.07   | <0.002    | 0.049   | 0.055  | <0.01    | <0.01   | <0.0003 | <0.01      | 0.07   | <0.04  | <0.02    | <0.04    | <0.1     | 0.008    | 13    |
| LF-F1     | 18-Feb-94   | <0.005 | 0.004   | <0.05  | <0.002    | 0.065   | 0.062  | <0.01    | <0.01   | <0.0002 | 0.02       | 0.07   | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 20    |
| LF-F1     | 23-Sep-94   | 0.002  | 0.21    | 0.02   | <0.0005   | <0.006  | 0.2    | <0.002   | <0.002  | <0.0002 | 0.006      | 0.13   | <0.005 | <0.02    | <0.004   | <0.1     | <0.005   | 39    |
| LF-F1     | 15-Mar-95   | 0.001  | 0.092   | 0.021  | <0.0005   | 0.02    | 0.1    | <0.002   | <0.002  | <0.0002 | 0.009      | 0.05   | <0.002 | <0.02    | <0.004   | <0.05    | 0.001    | 14    |
| LF-F1     | 7-Sep-95    | <0.001 | 0.09    | 0.020  | <0.0005   | 0.038   | 0.11   | <0.002   | <0.002  | <0.0002 | 0.011      | 0.076  | <0.002 | <0.004   | <0.02    | <0.01    | <0.001   | 17    |
| LF-F1     | 29-Feb-96   | <0.001 | 0.023   | 0.026  | <0.0005   | 0.26    | 0.054  | <0.002   | <0.002  | <0.0002 | 0.01       | 0.061  | <0.005 | <0.004   | <0.004   | <0.01    | <0.001   | 37    |
| LF-F1     | 23-Sep-96   | 0.001  | 0.22    | 0.021  | <0.0005   | 0.078   | 0.099  | <0.002   | <0.002  | <0.0002 | 0.013      | 0.078  | <0.002 | <0.004   | <0.004   | 0.02     | <0.001   | 30    |
| MW-1      | 5-Nov-91    | <0.002 | 0.073   | 0.085  | <0.001    | <0.005  | 0.008  | <0.01    | <0.005  | <0.0003 | 0.02       | 0.032  | <0.005 | <0.02    | <0.004   | <0.1     | <0.005   | 2.7   |
| MW-1      | 27-Oct-92   | <0.005 | 0.084   | 0.09   | <0.002    | 0.031   | 0.052  | <0.01    | <0.01   | <0.0003 | <0.01      | 0.3    | <0.04  | <0.02    | <0.004   | <0.1     | 0.007    | 42    |
| MW-1      | 5-Mar-93    | <0.005 | 0.024   | 0.05   | <0.002    | 0.008   | 0.015  | <0.01    | <0.01   | <0.0003 | <0.01      | 0.11   | <0.04  | <0.02    | <0.004   | <0.1     | 0.006    | 16    |
| MW-1      | 25-May-93   | <0.005 | 0.064   | 0.06   | <0.002    | <0.005  | 0.008  | <0.01    | <0.01   | <0.0003 | 0.02       | 0.02   | <0.04  | 0.03     | <0.004   | <0.1     | 0.007    | 1.6   |
| MW-1      | 1-Sep-93    | <0.005 | 0.097   | 0.07   | <0.002    | <0.005  | 0.009  | <0.01    | <0.01   | <0.0003 | 0.02       | 0.02   | <0.04  | <0.02    | <0.004   | <0.1     | 0.005    | 2.3   |
| MW-1      | 26-Oct-93   | <0.005 | 0.03    | 0.08   | <0.002    | 0.009   | 0.012  | <0.01    | <0.01   | <0.0003 | <0.01      | 0.1    | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 13    |
| MW-1      | 18-Feb-94   | <0.005 | 0.052   | 0.1    | <0.002    | <0.005  | 0.011  | <0.01    | <0.01   | <0.0002 | 0.01       | 0.02   | <0.04  | <0.02    | <0.004   | <0.1     | 0.007    | 2.8   |
| MW-1      | 22-Sep-94   | <0.001 | 0.029   | 0.08   | <0.0005   | 0.005   | 0.009  | <0.002   | <0.002  | <0.0002 | 0.007      | 0.051  | <0.005 | 0.017    | <0.01    | <0.02    | 0.01     | 5     |
| MW-1      | 14-Mar-95   | <0.001 | 0.033   | 0.092  | <0.0005   | <0.001  | 0.02   | <0.002   | 0.004   | <0.0002 | 0.013      | 0.019  | <0.002 | 0.079    | <0.004   | <0.01    | 0.009    | 1.8   |
| MW-1      | 5-Sep-95    | <0.001 | 0.12    | 0.12   | <0.0005   | 0.002   | 0.018  | 0.002    | <0.002  | <0.0002 | 0.018      | 0.014  | <0.005 | 0.029    | <0.01    | <0.01    | 0.019    | 1.4   |
| MW-1      | 29-Feb-96   | <0.001 | 0.041   | 0.07   | <0.0005   | <0.001  | 0.018  | <0.002   | 0.003   | <0.0002 | 0.009      | 0.019  | <0.002 | 0.077    | <0.004   | <0.01    | 0.009    | 1.7   |
| MW-1      | 23-Sep-96   | <0.001 | 0.098   | 0.084  | <0.0005   | 0.005   | 0.015  | <0.002   | <0.002  | <0.0002 | 0.013      | 0.016  | <0.002 | 0.032    | <0.004   | <0.01    | 0.008    | 2.6   |
| MW-2      | 5-Nov-92    | 0.008  | 2.1     | 0.013  | 0.002     | 7       | 0.42   | <0.01    | 0.093   | 0.0055  | 0.01       | 1.2    | <0.2   | <0.2     | <0.004   | <0.1     | <0.005   | 4200  |
| MW-2      | 27-Oct-92   | <0.05  | 1.5     | <0.5   | <0.02     | 10      | 1.5    | <0.1     | 0.2     | <0.0003 | <0.1       | 4.9    | <0.4   | <0.2     | 0.014    | <1       | <0.05    | 6000  |
| MW-2 (1)  | 5-Mar-93    | <0.005 | 0.011   | <0.05  | <0.002    | 0.28    | 0.24   | <0.01    | 0.14    | <0.0003 | <0.1       | 1      | <0.04  | <0.02    | <0.01    | <0.1     | <0.005   | 290   |
| MW-2      | 25-May-93   | <0.05  | 1.8     | <0.05  | <0.02     | 5.2     | 0.85   | <0.1     | <0.1    | <0.0003 | <0.1       | 2.4    | <0.4   | <0.2     | <0.004   | <1       | <0.05    | 3000  |
| MW-2      | 1-Sep-93    | <0.05  | 2.1     | <0.05  | <0.02     | 5.2     | 0.77   | <0.1     | <0.1    | <0.0003 | <0.1       | 2.3    | <0.4   | <0.2     | <0.004   | <1       | <0.05    | 2700  |
| MW-2      | 26-Oct-93   | <0.05  | 4       | <0.5   | <0.02     | 5.1     | 0.73   | 0.3      | 0.3     | <0.0003 | <0.1       | 2.2    | <0.4   | <0.2     | <0.04    | <1       | <0.05    | 2600  |
| MW-2      | 18-Feb-94   | <0.05  | 1.5     | <0.5   | <0.02     | 4.6     | 0.62   | <0.1     | <0.1    | <0.0002 | <0.1       | 2      | <0.4   | <0.2     | <0.004   | <1       | <0.05    | 2600  |
| MW-2      | 22-Sep-94   | <0.05  | 2.1     | <0.05  | <0.02     | 5       | 0.65   | <0.1     | 0.1     | <0.0002 | <0.1       | 2      | <0.1   | <0.2     | <0.2     | <1       | <0.05    | 2300  |
| MW-2      | 14-Mar-95   | <0.05  | 1.4     | <0.1   | <0.02     | 4.1     | 0.52   | <0.1     | <0.1    | <0.0002 | <0.1       | 1.8    | <0.02  | <0.2     | <0.4     | <0.5     | <0.05    | 2200  |
| MW-2      | 5-Sep-95    | <0.05  | 1.3     | <0.1   | <0.02     | 5.2     | 0.55   | <0.1     | 0.2     | <0.0002 | <0.1       | 1.9    | 0.02   | <0.2     | <0.2     | <0.5     | <0.05    | 2300  |
| MW-2      | 29-Feb-96   | <0.05  | 1.7     | <0.1   | <0.02     | 3       | 0.3    | <0.1     | <0.1    | <0.0002 | <0.1       | 1      | <0.02  | <0.2     | <0.1     | <0.5     | <0.05    | 1700  |
| MW-2 (1)  | 24-Sep-96   | <0.05  | 1.40    | <0.1   | <0.02     | 4.7     | 0.5    | <0.1     | 0.2     | <0.0002 | <0.2       | 1.6    | <0.01  | <0.2     | <0.004   | <0.5     | <0.05    | 1900  |
| MW-3      | 5-Nov-92    | 0.005  | <0.002  | 0.017  | 0.001     | 0.57    | 0.42   | <0.01    | 0.28    | 0.0028  | <0.01      | 1.2    | 0.005  | <0.02    | <0.004   | <0.1     | <0.005   | 600   |
| MW-3      | 27-Oct-92   | 0.009  | 0.004   | <0.05  | 0.003     | 0.73    | 0.74   | <0.01    | 0.3     | <0.0003 | <0.01      | 2.6    | <0.04  | <0.02    | 0.011    | <0.1     | <0.005   | 730   |
| MW-3 (1)  | 5-Mar-93    | <0.05  | 1.6     | <0.05  | <0.02     | 5.8     | 1      | <0.1     | 0.07    | <0.0003 | <0.1       | 3.1    | <0.4   | <0.2     | <0.02    | <1       | <0.05    | 3000  |
| MW-3      | 25-May-93   | <0.005 | <0.002  | <0.05  | <0.002    | 0.28    | 0.24   | <0.01    | 0.07    | <0.0003 | <0.01      | 0.83   | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 260   |
| MW-3      | 1-Sep-93    | <0.005 | 0.011   | <0.05  | <0.002    | 0.32    | 0.3    | <0.01    | 0.2     | <0.0003 | <0.01      | 1.1    | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 360   |
| MW-3      | 26-Oct-93   | <0.005 | <0.002  | <0.05  | 0.002     | 0.44    | 0.49   | <0.01    | 0.32    | <0.0003 | <0.01      | 1.7    | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 560   |
| MW-3      | 18-Feb-94   | <0.005 | <0.002  | <0.05  | <0.002    | 0.22    | 0.25   | <0.01    | 0.19    | <0.0002 | <0.01      | 0.77   | <0.04  | <0.02    | <0.004   | <0.1     | <0.005   | 230   |
| MW-3      | 24-May-94   | <0.005 | <0.002  | <0.05  | <0.002    | 0.1     | 0.14   | <0.01    | 0.12    | <0.0002 | <0.01      | 0.42   | <0.03  | <0.03    | <0.004   | <0.1     | <0.005   | 120   |
| MW-3      | 22-Sep-94   | <0.005 | <0.002  | <0.05  | <0.002    | 0.21    | 0.25   | <0.01    | 0.2     | <0.0002 | <0.01      | 0.75   | <0.005 | <0.02    | <0.004   | <0.1     | <0.005   | 230   |
| MW-3      | 19-Dec-94   | <0.005 | <0.002  | <0.05  | <0.002    | 0.094   | 0.089  | <0.01    | 0.06    | <0.0002 | <0.01      | 0.36   | <0.002 | <0.02    | <0.004   | <0.1     | <0.005   | 100   |
| MW-3      | 14-Mar-95   | <0.005 | <0.002  | 0.02   | <0.002    | 0.13    | 0.14   | <0.01    | 0.1     | <0.0002 | <0.01      | 0.59   | <0.002 | <0.02    | <0.004   | <0.05    | <0.005   | 220   |
| MW-3      | 7-Jul-95    | <0.005 | <0.002  | 0.02   | 0.002     | 0.33    | 0.47   | <0.01    | 0.32    | <0.0002 | <0.01      | 1.5    | <0.005 | <0.02    | <0.004   | <0.05    | <0.005   | 500   |
| MW-3      | 5-Sep-95    | <0.005 | <0.002  | 0.03   | 0.004     | 0.84    | 1.3    | <0.01    | 0.90    | <0.0002 | 0.01       | 3.8    | <0.002 | <0.02    | 0.004    | <0.05    | <0.005   | 1100  |
| MW-3      | 18-Dec-95   | <0.05  | <0.002  | 0.01   | <0.03     | 1.7     | 1.2    | <0.1     | 0.70    | <0.0002 | <0.1       | 3.9    | <0.002 | <0.2     | <0.004   | <0.5     | <0.05    | 1200  |
| MW-3      | 1-Mar-96    | <0.005 | 0.002   | 0.01   | <0.002    | 0.11    | 0.21   | <0.01    | 0.09    | <0.0002 | <0.01      | 0.6    | <0.002 | <0.02    | <0.004   | <0.05    | <0.005   | 170   |
| MW-3      | 2-May-95    | <0.05  | <0.002  | <0.1   | <0.02     | 0.48    | 0.82   | <0.1     | 0.40    | <0.0002 | <0.1       | 2.3    | <0.002 | <0.2     | <0.004   | <0.5     | <0.05    | 630   |
| MW-3      | 24-Sep-96   | 0.011  | <0.002  | 0.02   | 0.005     | 0.88    | 1.4    | <0.01    | 0.89    | <0.0002 | 0.04       | 3.9    | <0.002 | <0.02    | <0.004   | <0.05    | <0.005   | 1100  |
| MW-4      | 5-Nov-92    | <0.002 | 0.007   | 0.017  | <0.001    | <0.005  | <0.01  | <0.005   | 0.0027  | <0.01   | 0.012      | <0.005 | <0.02  | <0.004   | <0.1     | <0.005   | <0.005   | 20    |
| MW-4      | 27-Oct-92   | <0.005 | <0.002  | <0.05  | <0.002    | 0.006   | <0.005 | <0.01    | 0.02    | <0.0003 | <0.01      | 0.02   | <0.04  | <0.02    | 0.004    | <0.1     | 0.011    | 0.047 |
| MW-4      | 4-Mar-93    | <0.005 | <0.002  | <0.05  | <0.002    | <0.005  | <0.005 | <0.01    | <0.0003 | <0.01   | 0.02       | <0.04  | <0.02  | <0.004   | <0.1     | 0.01     | 0.03     | 0.03  |

Table 2  
 Metals Detected in Groundwater Samples  
 5050 Coliseum Way and 750-50th Avenue  
 Oakland, California  
 (Concentrations reported in parts per million [ppm])

| Sample ID | Sample Date | Silver  | Arsenic | Barium  | Beryllium | Cadmium | Cobalt  | Chromium | Copper  | Mercury  | Molybdenum | Nickel  | Lead    | Antimony | Selenium | Thallium | Vanadium | Zinc   |
|-----------|-------------|---------|---------|---------|-----------|---------|---------|----------|---------|----------|------------|---------|---------|----------|----------|----------|----------|--------|
| MW-4      | 25-May-93   | < 0.005 | < 0.002 | < 0.05  | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | < 0.01  | < 0.04  | < 0.02   | < 0.004  | < 0.1    | 0.006    | 0.008  |
| MW-4      | 1-Sep-93    | < 0.005 | 0.009   | < 0.05  | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | < 0.01  | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 0.016  |
| MW-4      | 26-Oct-93   | < 0.005 | 0.003   | < 0.05  | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | < 0.01  | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 0.15   |
| MW-4      | 18-Feb-94   | < 0.005 | < 0.002 | < 0.05  | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0002 | < 0.01     | 0.02    | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 0.17   |
| MW-4      | 22-Sep-94   | < 0.001 | < 0.002 | 0.02    | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 0.025   | < 0.005 | < 0.005  | < 0.004  | < 0.02   | 0.004    | 0.039  |
| MW-4      | 14-Mar-95   | < 0.001 | < 0.002 | 0.02    | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 0.02    | < 0.002 | < 0.004  | < 0.004  | < 0.01   | 0.004    | 0.05   |
| MW-4      | 6-Sep-95    | < 0.001 | < 0.002 | 0.019   | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 0.016   | < 0.002 | < 0.004  | < 0.004  | 0.01     | 0.004    | 0.02   |
| MW-4      | 29-Feb-96   | < 0.001 | 0.003   | 0.017   | < 0.0005  | 0.001   | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | 0.021   | < 0.002 | < 0.004  | < 0.004  | < 0.01   | 0.003    | 0.24   |
| LF-1-FB   | 26-Oct-93   | < 0.005 | < 0.002 | < 0.05  | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | < 0.01  | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 0.035  |
| LF-9-FB   | 1-Nov-93    | < 0.005 | < 0.002 | < 0.05  | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | < 0.01  | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 0.038  |
| LF-17-FB  | 8-Dec-93    | < 0.005 | < 0.002 | < 0.05  | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0003 | < 0.01     | < 0.01  | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 0.1    |
| LF-11-FB  | 18-Feb-94   | < 0.005 | < 0.002 | < 0.05  | < 0.002   | < 0.005 | < 0.005 | < 0.01   | < 0.01  | < 0.0002 | < 0.01     | < 0.01  | < 0.04  | < 0.02   | < 0.004  | < 0.1    | < 0.005  | 0.05   |
| LF-3-BB   | 25-May-94   | < 0.001 | < 0.002 | < 0.01  | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | < 0.002 | < 0.003 | < 0.005  | < 0.004  | < 0.02   | < 0.001  | 0.015  |
| LF-15-BB  | 8-Sep-95    | < 0.001 | < 0.002 | < 0.002 | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | < 0.002 | < 0.002 | 0.005    | < 0.004  | < 0.01   | < 0.001  | 0.02   |
| LF-11FB   | 2-May-96    | < 0.001 | < 0.002 | < 0.002 | < 0.0005  | < 0.001 | < 0.001 | < 0.002  | < 0.002 | < 0.0002 | < 0.002    | < 0.002 | < 0.002 | < 0.004  | < 0.004  | < 0.01   | < 0.001  | < 0.01 |

Data entered by DEB. Data proofed by JCK. QA/QC by SKS.

NOTES

(1) Labeling errors in the field or laboratory may account for the anomalous data reported for wells MW-2 and MW-3.

Analyses performed by American Environmental Network, Pleasant Hill, California.

PB/BB - Field Blank

**Table 3**  
**Gasoline Hydrocarbons and BTEX Detected in Groundwater Samples**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**  
*(concentrations reported in parts per million [ppm])*

| Sample ID    | Sample Date | TPHg  | Benzene | Ethylbenzene | Toluene | Xylenes |
|--------------|-------------|-------|---------|--------------|---------|---------|
| LF-1         | 04-Nov-91   | <0.05 | <0.005  | <0.005       | <0.005  | <0.01   |
| LF-1         | 02-May-96   | <0.05 | <0.0005 | <0.0005      | <0.0005 | <0.002  |
| LF-2         | 04-Nov-91   | <0.05 | <0.005  | <0.005       | <0.005  | <0.01   |
| LF-3         | 04-Nov-91   | <0.05 | <0.005  | <0.005       | <0.005  | <0.01   |
| LF-3         | 25-May-94   | <0.05 | NA      | NA           | NA      | NA      |
| LF-103 (dup) | 25-May-94   | <0.05 | NA      | NA           | NA      | NA      |
| LF-3         | 23-Sep-94   | <0.05 | NA      | NA           | NA      | NA      |
| LF-103 (dup) | 23-Sep-94   | <0.05 | NA      | NA           | NA      | NA      |
| LF-3         | 20-Dec-94   | <0.05 | <0.0005 | <0.0005      | <0.0005 | <0.002  |
| LF-103 (dup) | 20-Dec-94   | <0.05 | <0.0005 | <0.0005      | <0.0005 | <0.002  |
| LF-3         | 15-Mar-95   | <0.05 | <0.0005 | <0.0005      | <0.0005 | <0.002  |
| LF-3         | 07-Sep-95   | <0.05 | <0.0005 | <0.0005      | <0.0005 | <0.002  |
| LF-3         | 01-Mar-96   | <0.05 | <0.0005 | <0.0005      | <0.0005 | <0.002  |
| LF-3         | 02-May-96   | <0.05 | <0.0005 | <0.0005      | <0.0005 | <0.002  |
| LF-3         | 24-Sep-96   | <0.05 | NA      | NA           | NA      | NA      |
| LF-4         | 04-Nov-91   | 0.59  | <0.005  | <0.005       | <0.005  | <0.01   |
| LF-5         | 04-Nov-91   | NA    | <0.005  | <0.005       | <0.005  | <0.01   |
| LF-6         | 04-Nov-91   | NA    | <0.005  | <0.005       | <0.005  | <0.01   |
| LF-7         | 04-Nov-91   | NA    | <0.005  | <0.005       | <0.005  | <0.01   |
| LF-8         | 28-Oct-93   | <1.0  | NA      | NA           | NA      | NA      |
| LF-8         | 24-May-94   | 0.7   | NA      | NA           | NA      | NA      |
| LF-8         | 23-Sep-94   | 0.4   | NA      | NA           | NA      | NA      |
| LF-8         | 20-Dec-94   | 0.4   | 0.003   | 0.0085       | 0.0009  | 0.004   |
| LF-8         | 15-Mar-95   | 0.3   | 0.002   | 0.003        | 0.0006  | 0.003   |
| LF-8         | 09-Jun-95   | 0.3   | 0.001   | 0.003        | 0.0006  | 0.003   |
| LF-8         | 07-Sep-95   | 0.4   | 0.001   | 0.003        | 0.0006  | 0.003   |
| LF-8         | 18-Dec-95   | 0.3   | 0.001   | 0.003        | 0.0006  | 0.003   |
| LF-8         | 29-Feb-96   | 0.3   | 0.0026  | 0.0031       | 0.0019  | 0.0032  |
| LF-8         | 02-May-96   | 0.18  | 0.0008  | 0.0034       | <0.0005 | <0.002  |
| LF-8         | 25-Sep-96   | 0.21  | NA      | NA           | NA      | NA      |
| LF-9         | 01-Nov-93   | <0.1  | NA      | NA           | NA      | NA      |
| LF-109 (dup) | 01-Nov-93   | <0.1  | NA      | NA           | NA      | NA      |
| LF-9         | 23-Sep-94   | NA    | <0.005  | <0.005       | <0.005  | <0.01   |
| LF-11        | 28-Oct-93   | <0.1  | NA      | NA           | NA      | NA      |
| LF-13        | 06-Dec-93   | 0.05  | <0.0005 | <0.0005      | <0.0005 | <0.002  |
| LF-113 (dup) | 06-Dec-93   | 0.06  | <0.0005 | <0.0005      | <0.0005 | <0.002  |
| LF-14        | 21-Sep-94   | 1.4   | NA      | NA           | NA      | NA      |
| LF-14        | 19-Dec-94   | 1     | 0.001   | <0.0005      | 0.002   | 0.012   |
| LF-14        | 15-Mar-95   | 1.2   | 0.001   | <0.0005      | 0.0006  | 0.015   |
| LF-14        | 08-Sep-95   | 1.4   | 0.0009  | <0.0005      | 0.0007  | 0.002   |
| LF-14        | 01-Mar-96   | 0.8   | 0.0007  | <0.0005      | <0.0005 | 0.0084  |
| LF-14        | 24-Sep-96   | 0.9   | NA      | NA           | NA      | NA      |
| MW-2         | 05-Nov-91   | NA    | <0.0003 | <0.0003      | <0.0003 | <0.001  |
| LF-9-FB      | 01-Nov-93   | <0.1  | NA      | NA           | NA      | NA      |
| LF-4-BB      | 04-Nov-91   | <0.05 | <0.005  | <0.005       | <0.005  | <0.01   |
| LF-3-BB      | 25-May-94   | <0.05 | NA      | NA           | NA      | NA      |
| Trip Blank   | 26-Sep-94   | <0.05 | NA      | NA           | NA      | NA      |
| Trip Blank   | 16-Mar-95   | <0.05 | <0.0005 | <0.0005      | <0.0005 | <0.002  |

Data entered by JEB. Data proofed by JCK. QA/QC by SKS

#### NOTES

Samples analyzed by American Environmental Network, Pleasant Hill, California.

FB/BB - Field Blank

NA - not analyzed

TPHg - Total petroleum hydrocarbons as gasoline (EPA Method 5030)

Benzene, ethylbenzene, toluene, and xylenes (BTEX) analyzed using modified EPA Method 8015 or by EPA Method 8240.

**Table 4**  
**Petroleum Hydrocarbons Detected in Groundwater Samples**  
**5050 Coliseum Way and 750-50th Avenue**  
**Oakland, California**  
*(concentrations reported in parts per million [ppm])*

| Sample ID    | Sample Date | TPHd  | TPHo | TOG  | Hydrocarbons |
|--------------|-------------|-------|------|------|--------------|
| LF-1         | 4-Nov-91    | 0.09  | NA   | <0.5 | <0.5         |
| LF-1         | 2-May-96    | 0.3   | <0.2 | NA   | NA           |
| LF-2         | 4-Nov-91    | 0.3   | NA   | NA   | NA           |
| LF-3         | 4-Nov-91    | 0.2   | NA   | NA   | NA           |
| LF-3         | 25-May-94   | 0.3   | 0.4  | NA   | NA           |
| LF-103 (dup) | 25-May-94   | 0.3   | 0.4  | NA   | NA           |
| LF-3         | 23-Sep-94   | 1.2   | <0.2 | NA   | NA           |
| LF-103 (dup) | 23-Sep-94   | 1     | <0.2 | NA   | NA           |
| LF-3         | 20-Dec-94   | 0.89  | 0.2  | NA   | NA           |
| LF-103 (dup) | 20-Dec-94   | 0.88  | 0.2  | NA   | NA           |
| LF-3         | 15-Mar-95   | 0.8   | <0.2 | NA   | NA           |
| LF-3         | 7-Sep-95    | 0.62  | 0.4  | NA   | NA           |
| LF-3         | 1-Mar-96    | 0.65  | 0.2  | NA   | NA           |
| LF-3         | 2-May-96    | 0.61  | <0.2 | NA   | NA           |
| LF-3         | 24-Sep-96   | 0.37  | <0.2 | NA   | NA           |
| LF-4         | 4-Nov-91    | 0.1   | NA   | NA   | NA           |
| LF-8         | 28-Oct-93   | 9.8   | NA   | 2    | 1            |
| LF-8         | 24-May-94   | 4.5   | 0.6  | NA   | NA           |
| LF-8         | 23-Sep-94   | 6.7   | <0.2 | NA   | NA           |
| LF-8         | 20-Dec-94   | 5.6   | 0.4  | NA   | NA           |
| LF-8         | 15-Mar-95   | 4.1   | 0.2  | NA   | NA           |
| LF-8         | 9-Jun-95    | 3.8   | <0.2 | NA   | NA           |
| LF-8         | 7-Sep-95    | 4.7   | 0.3  | NA   | NA           |
| LF-8         | 18-Dec-95   | 3.9   | 0.4  | NA   | NA           |
| LF-8         | 29-Feb-96   | 3.9   | 0.3  | NA   | NA           |
| LF-8         | 2-May-96    | 2.3   | <0.2 | NA   | NA           |
| LF-8         | 25-Sep-96   | 2.5   | <0.2 | NA   | NA           |
| LF-9         | 1-Nov-93    | 0.2   | NA   | <0.5 | <0.5         |
| LF-109 (dup) | 1-Nov-93    | 0.2   | NA   | <0.5 | <0.5         |
| LF-11        | 28-Oct-93   | <0.05 | NA   | <0.5 | <0.5         |
| LF-13 (*)    | 6-Dec-93    | 0.5   | 0.4  | 1    | <0.5         |
| LF-113 (dup) | 6-Dec-93    | 0.6   | 0.4  | NA   | NA           |
| LF-14        | 21-Sep-94   | <0.3  | <0.2 | NA   | NA           |
| LF-14        | 19-Dec-94   | 0.65  | <0.2 | NA   | NA           |
| LF-14        | 15-Mar-95   | 0.3   | <0.2 | NA   | NA           |
| LF-14        | 8-Sep-95    | <0.05 | <0.2 | NA   | NA           |
| LF-14        | 1-Mar-96    | 0.14  | <0.2 | NA   | NA           |
| LF-14        | 24-Sep-96   | 0.17  | <0.2 | NA   | NA           |
| MW-2         | 4-Nov-91    | <0.05 | NA   | NA   | NA           |
| LF-3-BB      | 25-May-94   | <0.05 | <0.2 | NA   | NA           |

Data entered by DEB. Data proofed by JCK. QA/QC by SJS

#### NOTES

Analyses performed by American Environmental Network, Pleasant Hill, CA

BB - Field Blank

NA - not analyzed

TPHd - Total petroleum hydrocarbons as diesel (EPA Method 3510)

TPHo - Total petroleum hydrocarbons as oil (EPA Method 3510)

TOG - Total oil and grease (Standard Method 5520b)

Hydrocarbons - Total hydrocarbons (Standard Method 5520f)

(\*) - Free product measured in February 1994

**TABLE 5**  
**SEMICVOLATILE ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES**  
**5050 COLISEUM WAY AND 750-50TH AVENUE**  
**OAKLAND, CALIFORNIA**  
*(concentrations reported in parts per million [ppm])*

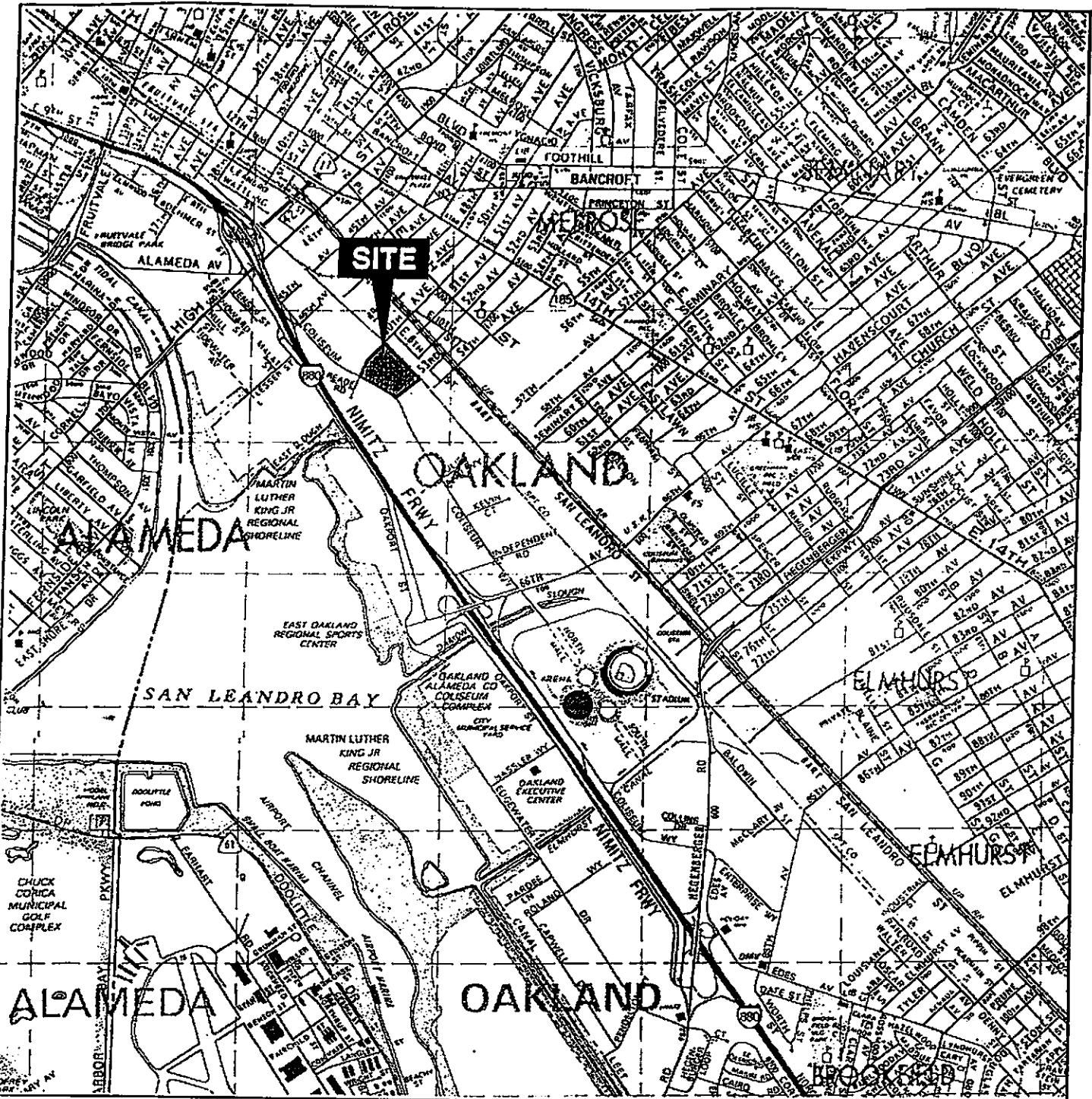
| Sample ID | Notes     | Sample Date | Acenaphthene | Acenaphthylene | Anthracene | Dibenzofuran | Fluoranthene | Fluorene | 2-Methyl-naphthalene | Naphthalene | Phenathrene | Pyrene |
|-----------|-----------|-------------|--------------|----------------|------------|--------------|--------------|----------|----------------------|-------------|-------------|--------|
| LF-2      |           | 4-Nov-91    | NA           | <0.010         | <0.010     | <0.010       | <0.010       | <0.010   | <0.010               | NA          | <0.010      | <0.010 |
| LF-5      |           | 4-Nov-91    | NA           | <0.010         | <0.010     | <0.010       | <0.010       | <0.010   | <0.010               | NA          | <0.010      | <0.010 |
| (1)       | 28-Oct-93 | 0.3         | 0.015        | 0.055          | 0.2        | 0.068        | 0.21         | <0.010   | <0.010               | 0.13        | 0.032       |        |
|           | 16-Feb-94 | 0.43        | 0.016        | 0.051          | 0.25       | 0.073        | 0.24         | 0.02     | 0.25                 | 0.089       | 0.04        |        |
|           | 23-Sep-94 | 0.39        | 0.011        | 0.029          | 0.2        | 0.016        | 0.17         | <0.010   | 0.033                | 0.026       | 0.022       |        |
|           | 15-May-95 | 0.36        | 0.013        | 0.031          | 0.16       | 0.029        | 0.17         | 0.033    | 0.032                | 0.015       | 0.017       |        |
|           | 7-Sep-95  | 0.69        | 0.015        | 0.041          | 0.2        | 0.032        | 0.17         | <0.010   | 0.013                | <0.010      | 0.019       |        |
|           | 29-Feb-96 | 0.19        | <0.010       | 0.012          | 0.12       | <0.010       | 0.083        | <0.010   | <0.010               | <0.010      | <0.010      |        |
|           | 25-Sep-96 | 0.4         | <0.010       | 0.027          | 0.190      | 0.026        | 0.150        | <0.010   | <0.010               | <0.010      | 0.013       |        |
| LF-9      |           | 1-Nov-93    | <0.010       | <0.010         | <0.010     | <0.010       | <0.010       | <0.010   | <0.010               | <0.010      | <0.010      | <0.010 |
| LF-11     |           | 28-Oct-93   | <0.010       | <0.010         | <0.010     | <0.010       | <0.010       | <0.010   | <0.010               | <0.010      | <0.010      | <0.010 |
| LF-13     |           | 6-Dec-93    | <0.010       | <0.010         | <0.010     | <0.010       | <0.010       | <0.010   | <0.010               | <0.010      | <0.010      | <0.010 |
| LF-14     |           | 8-Dec-93    | <0.010       | <0.010         | <0.010     | <0.010       | <0.010       | <0.010   | <0.010               | <0.010      | <0.010      | <0.010 |

Data entered by DEB. Data QA/QC by SJ.

**Notes:**

EPA 8270 analyses performed by American Environmental Network, Pleasant Hill, California

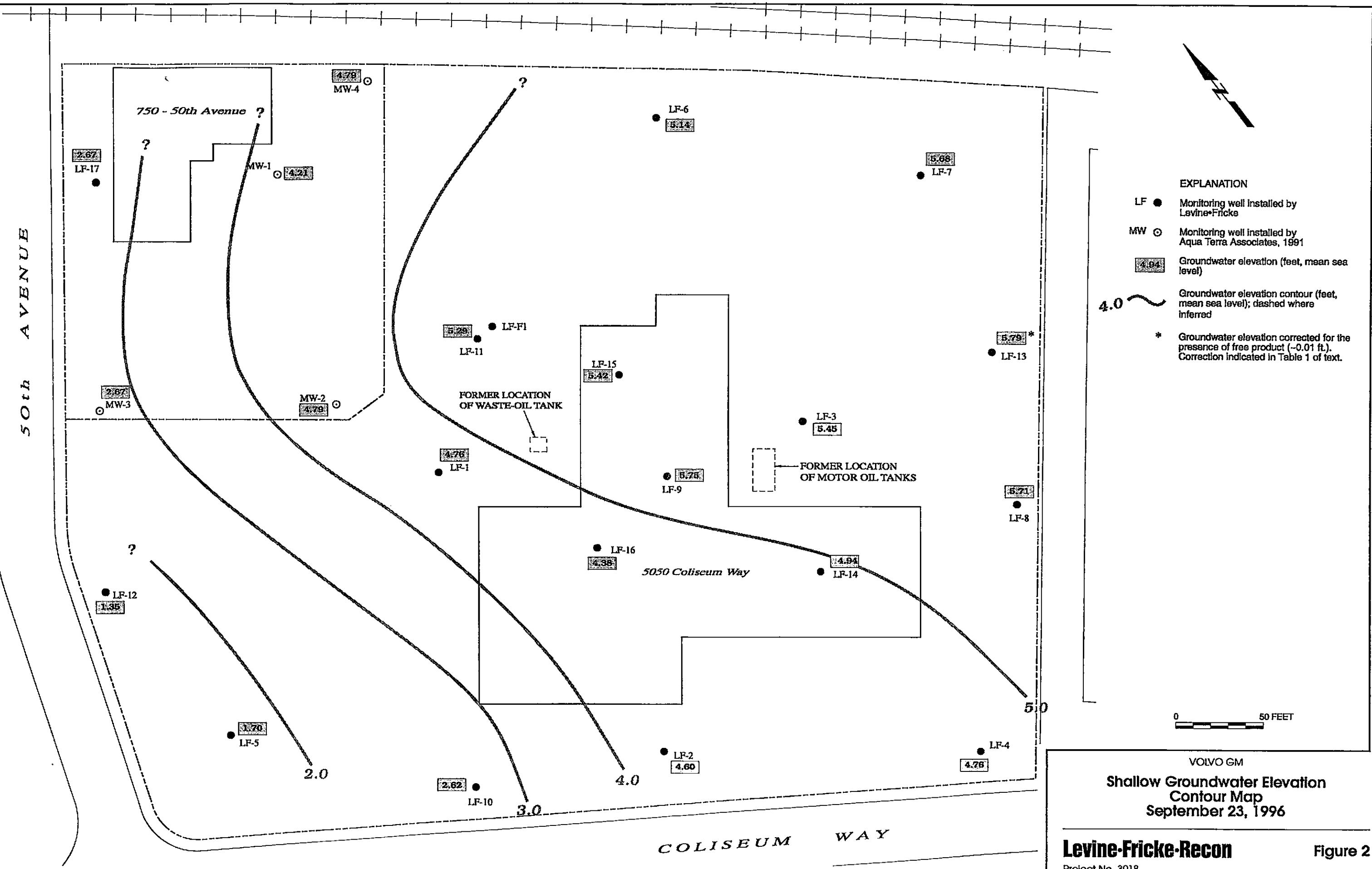
(1): A concentration of 0.021 ppm bis (2-ethylhexyl) phthalate was also detected.



© Copyright 1995, Thomas Bros. Map @  
Alameda County  
1995 Edition

0 1/2 1 MILE

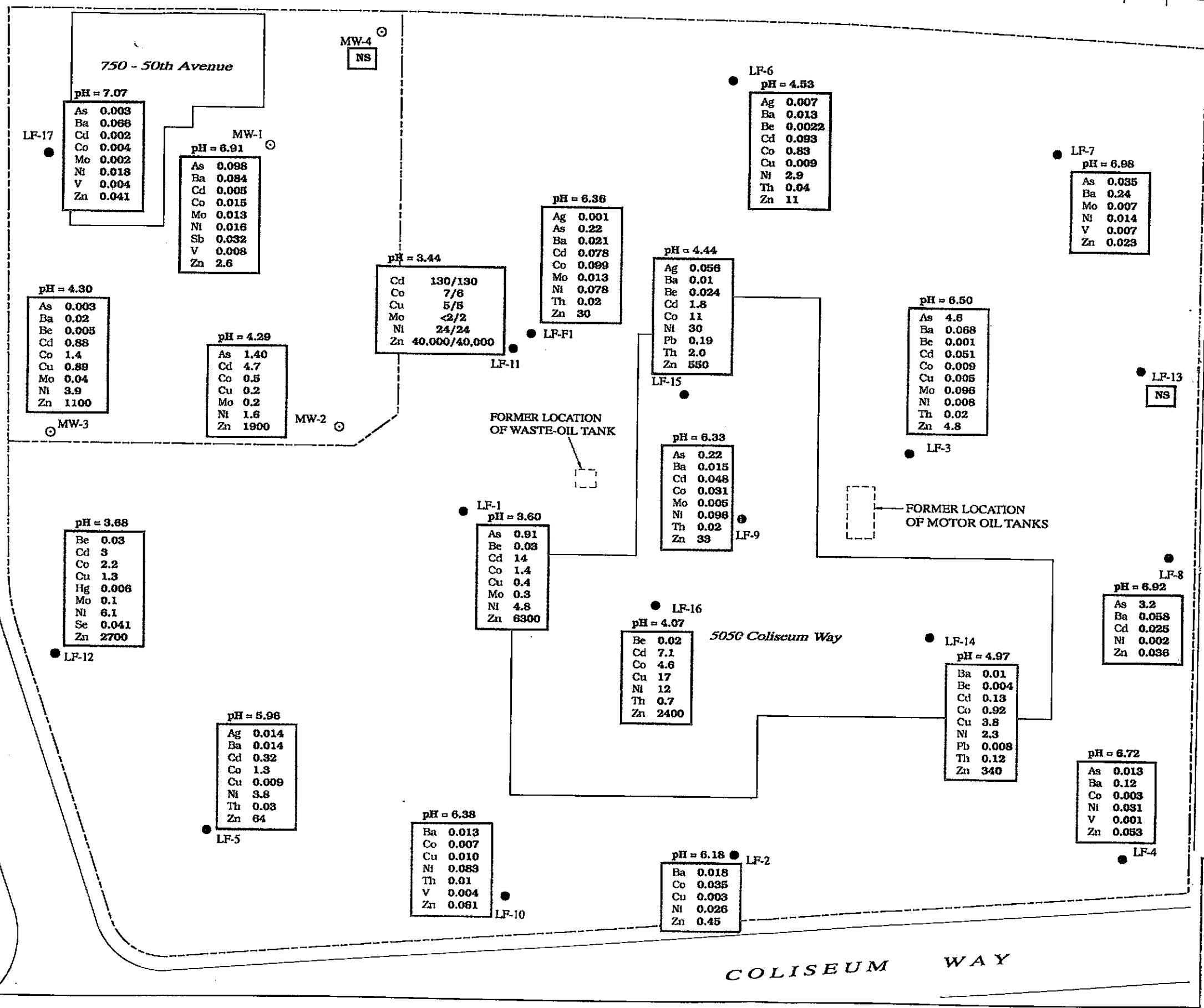
Figure 1 : SITE LOCATION, 5050 COLISEUM WAY AND 750-50TH AVENUE, OAKLAND, CA



**VOLVO GM**

**Shallow Groundwater Elevation  
Contour Map  
September 23, 1996**

**Levine-Fricke-Recom**

**EXPLANATION**

LF ● Monitoring well installed by Levine-Fricke

MW ○ Monitoring well installed by Aqua Terra Associates, 1991

pH = 3.44 — Standard units

Cd 130/130 — Duplicate analysis

Concentration in parts per million (ppm)

Metal

NS Not sampled

**KEY TO ABBREVIATIONS**

|    |            |
|----|------------|
| Ag | Silver     |
| As | Arsenic    |
| Ba | Barium     |
| Be | Beryllium  |
| Cd | Cadmium    |
| Co | Cobalt     |
| Cu | Copper     |
| Mo | Molybdenum |
| Ni | Nickel     |
| Pb | Lead       |
| Se | Selenium   |
| Th | Thallium   |
| V  | Vanadium   |
| Zn | Zinc       |

0 60 FEET

VOLVO GM

**Concentrations of Metals  
Detected in Shallow Groundwater (ppm)  
September 23-25, 1996**

**APPENDIX A**

**Laboratory Certificates  
and Chain-of-Custody Form**

# American Environmental Network

## Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

LEVINE-FRICKE-RECON  
1900 POWELL ST. 12TH FL.  
EMERYVILLE, CA 94608

ATTN: JOHN KEELER  
CLIENT PROJ. ID: 3018.95.21  
CLIENT PROJ. NAME: VOLVO/GM  
C.O.C. NUMBER: 17600

REPORT DATE: 10/09/96  
DATE(S) SAMPLED: 09/24/96  
DATE RECEIVED: 09/24/96  
AEN WORK ORDER: 9609301

### PROJECT SUMMARY:

On September 24, 1996, this laboratory received 3 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

  
Larry Klein  
Laboratory Director

## LEVINE-FRICKE

SAMPLE ID: MW-2  
 AEN LAB NO: 9609301-01  
 AEN WORK ORDER: 9609301  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/24/96  
 REPORT DATE: 10/09/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS     | DATE<br>ANALYZED |
|----------------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace            | EPA 200.0       | -       |                    | Prep Date | 10/03/96         |
| #Digestion/ICP                   | EPA 200.0       | -       |                    | Prep Date | 10/03/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |         |                    |           |                  |
| Ag Silver                        | EPA 200.7       | ND      | 0.05 mg/L          |           | 10/04/96         |
| As Arsenic                       | EPA 206.2       | 1.4 *   | 0.02 mg/L          |           | 10/04/96         |
| Ba Barium                        | EPA 200.7       | ND      | 0.1 mg/L           |           | 10/04/96         |
| Be Beryllium                     | EPA 200.7       | ND      | 0.02 mg/L          |           | 10/04/96         |
| Cd Cadmium                       | EPA 200.7       | 4.7 *   | 0.05 mg/L          |           | 10/04/96         |
| Co Cobalt                        | EPA 200.7       | 0.51 *  | 0.05 mg/L          |           | 10/04/96         |
| Cr Chromium                      | EPA 200.7       | ND      | 0.1 mg/L           |           | 10/04/96         |
| Cu Copper                        | EPA 200.7       | 0.2 *   | 0.1 mg/L           |           | 10/04/96         |
| Hg Mercury                       | EPA 245.1       | ND      | 0.0002 mg/L        |           | 10/03/96         |
| Mo Molybdenum                    | EPA 200.7       | 0.2 *   | 0.1 mg/L           |           | 10/04/96         |
| Ni Nickel                        | EPA 200.7       | 1.6 *   | 0.1 mg/L           |           | 10/04/96         |
| Pb Lead                          | EPA 239.2       | ND      | 0.01 mg/L          |           | 10/04/96         |
| Sb Antimony                      | EPA 200.7       | ND      | 0.2 mg/L           |           | 10/04/96         |
| Se Selenium                      | EPA 270.2       | ND      | 0.004 mg/L         |           | 10/04/96         |
| Tl Thallium                      | EPA 200.7       | ND      | 0.5 mg/L           |           | 10/04/96         |
| V Vanadium                       | EPA 200.7       | ND      | 0.05 mg/L          |           | 10/04/96         |
| Zn Zinc                          | EPA 200.7       | 1,900 * | 0.1 mg/L           |           | 10/04/96         |

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## LEVINE-FRICKE

SAMPLE ID: MW-3  
 AEN LAB NO: 9609301-02  
 AEN WORK ORDER: 9609301  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/24/96  
 REPORT DATE: 10/09/96

| ANALYTE                   | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS     | DATE<br>ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace     | EPA 200.0       | -       |                    | Prep Date | 10/03/96         |
| #Digestion/ICP            | EPA 200.0       | -       |                    | Prep Date | 10/03/96         |
| CCR 17 Metals (Low Level) |                 |         |                    |           |                  |
| Ag Silver                 | EPA 200.7       | 0.011 * | 0.005 mg/L         |           | 10/04/96         |
| As Arsenic                | EPA 206.2       | ND      | 0.002 mg/L         |           | 10/04/96         |
| Ba Barium                 | EPA 200.7       | 0.02 *  | 0.01 mg/L          |           | 10/04/96         |
| Be Beryllium              | EPA 200.7       | 0.005 * | 0.002 mg/L         |           | 10/04/96         |
| Cd Cadmium                | EPA 200.7       | 0.88 *  | 0.005 mg/L         |           | 10/04/96         |
| Co Cobalt                 | EPA 200.7       | 1.4 *   | 0.005 mg/L         |           | 10/04/96         |
| Cr Chromium               | EPA 200.7       | ND      | 0.01 mg/L          |           | 10/04/96         |
| Cu Copper                 | EPA 200.7       | 0.89 *  | 0.01 mg/L          |           | 10/04/96         |
| Hg Mercury                | EPA 245.1       | ND      | 0.0002 mg/L        |           | 10/03/96         |
| Mo Molybdenum             | EPA 200.7       | 0.04 *  | 0.01 mg/L          |           | 10/04/96         |
| Ni Nickel                 | EPA 200.7       | 3.9 *   | 0.01 mg/L          |           | 10/04/96         |
| Pb Lead                   | EPA 239.2       | ND      | 0.002 mg/L         |           | 10/04/96         |
| Sb Antimony               | EPA 200.7       | ND      | 0.02 mg/L          |           | 10/04/96         |
| Se Selenium               | EPA 270.2       | ND      | 0.004 mg/L         |           | 10/04/96         |
| Tl Thallium               | EPA 200.7       | ND      | 0.05 mg/L          |           | 10/04/96         |
| V Vanadium                | EPA 200.7       | ND      | 0.005 mg/L         |           | 10/04/96         |
| Zn Zinc                   | EPA 200.7       | 1,100 * | 0.01 mg/L          |           | 10/04/96         |

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## LEVINE-FRICKE

SAMPLE ID: LF-14  
 AEN LAB NO: 9609301-03  
 AEN WORK ORDER: 9609301  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/24/96  
 REPORT DATE: 10/09/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS      | DATE<br>ANALYZED |
|----------------------------------|-----------------|---------|--------------------|------------|------------------|
| TPH as Gas in water              | 5030/GC-FID     | 0.86 *  | 0.05               | mg/L       | 10/01/96         |
| #Digestion/G. Furnace            | EPA 200.0       | -       |                    | Prep Date  | 10/03/96         |
| #Digestion/ICP                   | EPA 200.0       | -       |                    | Prep Date  | 10/03/96         |
| #Extraction for TPH              | EPA 3510        | -       |                    | Extrn Date | 09/30/96         |
| TPH as Diesel                    | GC-FID          | 0.17 *  | 0.05               | mg/L       | 10/03/96         |
| TPH as Oil                       | GC-FID          | ND      | 0.2                | mg/L       | 10/03/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |         |                    |            |                  |
| Ag Silver                        | EPA 200.7       | ND      | 0.005              | mg/L       | 10/04/96         |
| As Arsenic                       | EPA 206.2       | ND      | 0.002              | mg/L       | 10/04/96         |
| Ba Barium                        | EPA 200.7       | 0.01 *  | 0.01               | mg/L       | 10/04/96         |
| Be Beryllium                     | EPA 200.7       | 0.004 * | 0.002              | mg/L       | 10/04/96         |
| Cd Cadmium                       | EPA 200.7       | 0.13 *  | 0.005              | mg/L       | 10/04/96         |
| Co Cobalt                        | EPA 200.7       | 0.92 *  | 0.005              | mg/L       | 10/04/96         |
| Cr Chromium                      | EPA 200.7       | ND      | 0.01               | mg/L       | 10/04/96         |
| Cu Copper                        | EPA 200.7       | 3.8 *   | 0.01               | mg/L       | 10/04/96         |
| Hg Mercury                       | EPA 245.1       | ND      | 0.0002             | mg/L       | 10/03/96         |
| Mo Molybdenum                    | EPA 200.7       | ND      | 0.01               | mg/L       | 10/04/96         |
| Ni Nickel                        | EPA 200.7       | 2.3 *   | 0.01               | mg/L       | 10/04/96         |
| Pb Lead                          | EPA 239.2       | 0.008 * | 0.002              | mg/L       | 10/04/96         |
| Sb Antimony                      | EPA 200.7       | ND      | 0.02               | mg/L       | 10/04/96         |
| Se Selenium                      | EPA 270.2       | ND      | 0.004              | mg/L       | 10/04/96         |
| Tl Thallium                      | EPA 200.7       | 0.12 *  | 0.05               | mg/L       | 10/04/96         |
| V Vanadium                       | EPA 200.7       | ND      | 0.005              | mg/L       | 10/04/96         |
| Zn Zinc                          | EPA 200.7       | 340 *   | 0.01               | mg/L       | 10/04/96         |

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

AEN (CALIFORNIA)  
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9609301

CLIENT PROJECT ID: 3018.95.21

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

PAGE 6

## QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9609301  
AEN LAB NO: 0930-BLANK  
DATE EXTRACTED: 09/30/96  
DATE ANALYZED: 10/03/96  
INSTRUMENT: C  
MATRIX: WATER

## Method Blank

| Analyte | Result<br>(mg/L) | Reporting<br>Limit<br>(mg/L) |
|---------|------------------|------------------------------|
| Diesel  | ND               | 0.05                         |
| Oil     | ND               | 0.2                          |

## QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9609301  
DATE EXTRACTED: 09/30/96  
INSTRUMENT: C  
MATRIX: WATER

## Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery<br>n-Pentacosane |
|---------------|------------|---------|-----------------------------------|
| 10/03/96      | LF-14      | 03      | 95                                |
| QC Limits:    |            |         | 65-125                            |

DATE EXTRACTED: 09/29/96  
DATE ANALYZED: 10/01/96  
SAMPLE SPIKED: 9608373-14  
INSTRUMENT: C

## Matrix Spike Recovery Summary

| Analyte | Spike Added (mg/L) | Average Percent Recovery | RPD | QC Limits<br>Percent Recovery | RPD |
|---------|--------------------|--------------------------|-----|-------------------------------|-----|
| Diesel  | 4.00               | 96                       | 1   | 60-110                        | 15  |

## QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9609301  
AEN LAB NO: 1001-BLANK  
DATE ANALYZED: 10/01/96  
INSTRUMENT: F  
MATRIX: WATER

## Method Blank

|                 | Result<br>(mg/L) | Reporting<br>Limit<br>(mg/L) |
|-----------------|------------------|------------------------------|
| HCs as Gasoline | ND               | 0.05                         |

## QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9609301

INSTRUMENT: F

MATRIX: WATER

## Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery |
|---------------|------------|---------|------------------|
|               |            |         | Fluorobenzene    |
| 10/01/96      | LF-14      | 03      | 118              |
| QC Limits:    |            |         | 70-130           |

DATE ANALYZED: 09/30/96

SAMPLE SPIKED: 9609392-04

INSTRUMENT: F

## Matrix Spike Recovery Summary

| Analyte                  | Spike Added (ug/L) | Average Percent Recovery | RPD | QC Limits        |     |
|--------------------------|--------------------|--------------------------|-----|------------------|-----|
|                          |                    |                          |     | Percent Recovery | RPD |
| Hydrocarbons as Gasoline | 500                | 107                      | 6   | 66-117           | 19  |

## QUALITY CONTROL DATA

AEN JOB NO: 9609301  
 SAMPLE SPIKED: DI WATER  
 DATE(S) ANALYZED: 10/03-04/96  
 MATRIX: WATER

## Method Blank and Spike Recovery Summary

| Analyte      | Inst./Method | Blank Result (mg/L) | Spike Added (mg/L) | MS Percent Recovery | QC Limits |                  |     |
|--------------|--------------|---------------------|--------------------|---------------------|-----------|------------------|-----|
|              |              |                     |                    |                     | RPD       | Percent Recovery | RPD |
| Ag, Silver   | ICP/200.7    | ND                  | 0.025              | 101                 | 1         | 72-127           | 10  |
| As, Arsenic  | 4000/206.2   | ND                  | 0.04               | 121                 | 9         | 69-136           | 13  |
| Ba, Barium   | ICP/200.7    | ND                  | 1.0                | 101                 | 2         | 91-120           | 10  |
| Cd, Cadmium  | ICP/200.7    | ND                  | 0.05               | 115                 | 8         | 84-120           | 10  |
| Cr, Chromium | ICP/200.7    | ND                  | 0.1                | 99                  | 5         | 85-128           | 10  |
| Cu, Copper   | ICP/200.7    | ND                  | 0.125              | 98                  | 1         | 86-123           | 10  |
| Hg, Mercury  | Hg/245.1     | ND                  | 2.0 ug/L           | 100                 | 2         | 89-121           | 10  |
| Ni, Nickel   | ICP/200.7    | ND                  | 0.25               | 102                 | 2         | 92-121           | 10  |
| Pb, Lead     | 4000/239.2   | ND                  | 0.02               | 85                  | 3         | 75-125           | 14  |
| Se, Selenium | 4000/270.2   | ND                  | 0.08               | 87                  | 4         | 75-115           | 13  |
| Zn, Zinc     | ICP/200.7    | ND                  | 0.25               | 120                 | 1         | 90-121           | 10  |

\*\*\*END OF REPORT\*\*\*

## **CHAIN OF CUSTODY / ANALYSES REQUEST FORM**

4

2353

9609301

| Project No.: 3018.95.21   |         |              |                | Field Logbook No.:                                  |                  | Date: 9/24/96 |        | Serial No.:<br>No 17600 |              |              |            |   |
|---|---------|--------------|----------------|---|------------------|---------------|--------|-------------------------|--------------|--------------|------------|---|
| Project Name: Volvo/GM  |         |              |                | Project Location: OAKLAND, CA.                      |                  |               |        |                         |              |              |            |   |
| Sampler (Signature): JC   |         |              |                | ANALYSES  |                  |               |        | Samplers:<br>JCK        |              |              |            |   |
| SAMPLES   |         |              |                |   |                  |               |        |                         |              |              |            |   |
| SAMPLE NO.  | DATE    | TIME         | LAB SAMPLE NO. | NO. OF CONTAINERS                                   | SAMPLE TYPE      | T1P1S         | T1P1Hd | T1P1T0                  | T1P1C2Z      | HOLD         | RUSH       | REMARKS   |
| MW-2  | 9/24/96 | 1550         | 01A            | 1   | H <sub>2</sub> O |               |        | X                       |              |              |            | STD TAT   |
| MW-3  | ↓       | 1450         | 02A            | 1   |                  | ↓             |        | X                       |              |              |            |   |
| LF-14   | ↓       | 1650         | 03A-F          | 6   | ↓                | X             | X      | X                       | X            |              |            | BASIN PLAN DETECTION<br>LIMITS FOR METALS                             |
|   |         |              |                |   |                  |               |        |                         |              |              |            |   |
|   |         |              |                |   |                  |               |        |                         |              |              |            | RESULTS TO<br>JOHN KEELER   |
|   |         |              |                |   |                  |               |        |                         |              |              |            |   |
|   |         |              |                |   |                  |               |        |                         |              |              |            | METAL SAMPLES ARE<br>FIELD FILTERED<br>NEED TO BE PRESERVED<br>AT LAB |
|   |         |              |                |   |                  |               |        |                         |              |              |            |   |
| RELINQUISHED BY:<br>(Signature)   |         | DATE 9/24/96 | TIME 11:07     | RECEIVED BY:<br>(Signature)                         |                  |               |        |                         |              | DATE 9/24/96 | TIME 11:07 |   |
| RELINQUISHED BY:<br>(Signature)   |         | DATE 9/24/96 | TIME 13:03     | RECEIVED BY:<br>(Signature)                         |                  |               |        |                         | DATE 9/24/96 | TIME 13:03   |            |   |
| RELINQUISHED BY:<br>(Signature)   |         | DATE         | TIME           | RECEIVED BY:<br>(Signature)                         |                  |               |        |                         | DATE         | TIME         |            |   |
| METHOD OF SHIPMENT:   |         |              |                | LAB COMMENTS:                                       |                  |               |        |                         |              |              |            |   |
| Sample Collector: LEVINE-FRICKE<br>1900 Powell Street, 12th Floor<br>Emeryville, California 94608<br>(510) 652-4500 |         |              |                | Analytical Laboratory:<br>AEN<br>PLEASANT HILL, CA. |                  |               |        |                         |              |              |            |   |

# American Environmental Network

## Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

LEVINE-FRICKE-RECON  
1900 POWELL ST. 12TH FL.  
EMERYVILLE, CA 94608

ATTN: JOHN KEELER  
CLIENT PROJ. ID: 3018.95.21  
CLIENT PROJ. NAME: VOLVO GM  
C.O.C. NUMBER: 17602

REPORT DATE: 10/10/96  
DATE(S) SAMPLED: 09/24/96  
DATE RECEIVED: 09/25/96  
AEN WORK ORDER: 9609319

### PROJECT SUMMARY:

On September 25, 1996, this laboratory received 9 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

  
\_\_\_\_\_  
Larry Klein  
Laboratory Director

## LEVINE-FRICKE

SAMPLE ID: LF-15  
 AEN LAB NO: 9609319-01  
 AEN WORK ORDER: 9609319  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                   | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS     | DATE<br>ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace     | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| #Digestion/ICP            | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| CCR 17 Metals (Low Level) |                 |         |                    |           |                  |
| Ag Silver                 | EPA 200.7       | 0.056 * | 0.005              | mg/L      | 10/04/96         |
| As Arsenic                | EPA 206.2       | ND      | 0.01               | mg/L      | 10/02/96         |
| Ba Barium                 | EPA 200.7       | 0.01 *  | 0.01               | mg/L      | 10/04/96         |
| Be Beryllium              | EPA 200.7       | 0.024 * | 0.002              | mg/L      | 10/04/96         |
| Cd Cadmium                | EPA 200.7       | 1.8 *   | 0.005              | mg/L      | 10/04/96         |
| Co Cobalt                 | EPA 200.7       | 11 *    | 0.005              | mg/L      | 10/04/96         |
| Cr Chromium               | EPA 200.7       | ND      | 0.01               | mg/L      | 10/04/96         |
| Cu Copper                 | EPA 200.7       | ND      | 0.01               | mg/L      | 10/04/96         |
| Hg Mercury                | EPA 245.1       | ND      | 0.0002             | mg/L      | 10/01/96         |
| Mo Molybdenum             | EPA 200.7       | ND      | 0.01               | mg/L      | 10/04/96         |
| Ni Nickel                 | EPA 200.7       | 30 *    | 0.01               | mg/L      | 10/04/96         |
| Pb Lead                   | EPA 239.2       | 0.19 *  | 0.002              | mg/L      | 10/02/96         |
| Sb Antimony               | EPA 200.7       | ND      | 0.02               | mg/L      | 10/04/96         |
| Se Selenium               | EPA 270.2       | ND      | 0.02               | mg/L      | 10/02/96         |
| Tl Thallium               | EPA 200.7       | 2.0 *   | 0.05               | mg/L      | 10/04/96         |
| V Vanadium                | EPA 200.7       | ND      | 0.005              | mg/L      | 10/04/96         |
| Zn Zinc                   | EPA 200.7       | 550 *   | 0.01               | mg/L      | 10/04/96         |

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## LEVINE-FRICKE

SAMPLE ID: LF-1  
 AEN LAB NO: 9609319-02  
 AEN WORK ORDER: 9609319  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS     | DATE<br>ANALYZED |
|----------------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace            | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| #Digestion/ICP                   | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |         |                    |           |                  |
| Ag Silver                        | EPA 200.7       | ND      | 0.05               | mg/L      | 10/04/96         |
| As Arsenic                       | EPA 206.2       | 0.91 *  | 0.01               | mg/L      | 09/27/96         |
| Ba Barium                        | EPA 200.7       | ND      | 0.1                | mg/L      | 10/04/96         |
| Be Beryllium                     | EPA 200.7       | 0.03 *  | 0.02               | mg/L      | 10/04/96         |
| Cd Cadmium                       | EPA 200.7       | 14 *    | 0.05               | mg/L      | 10/04/96         |
| Co Cobalt                        | EPA 200.7       | 1.4 *   | 0.05               | mg/L      | 10/04/96         |
| Cr Chromium                      | EPA 200.7       | ND      | 0.1                | mg/L      | 10/04/96         |
| Cu Copper                        | EPA 200.7       | 0.4 *   | 0.1                | mg/L      | 10/04/96         |
| Hg Mercury                       | EPA 245.1       | ND      | 0.0002             | mg/L      | 10/01/96         |
| Mo Molybdenum                    | EPA 200.7       | 0.3 *   | 0.1                | mg/L      | 10/04/96         |
| Ni Nickel                        | EPA 200.7       | 4.8 *   | 0.1                | mg/L      | 10/04/96         |
| Pb Lead                          | EPA 239.2       | ND      | 0.05               | mg/L      | 10/02/96         |
| Sb Antimony                      | EPA 200.7       | ND      | 0.2                | mg/L      | 10/04/96         |
| Se Selenium                      | EPA 270.2       | ND      | 0.02               | mg/L      | 10/02/96         |
| Tl Thallium                      | EPA 200.7       | ND      | 0.5                | mg/L      | 10/04/96         |
| V Vanadium                       | EPA 200.7       | ND      | 0.05               | mg/L      | 10/04/96         |
| Zn Zinc                          | EPA 200.7       | 6,300 * | 0.1                | mg/L      | 10/04/96         |

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## LEVINE-FRICKE

SAMPLE ID: LF-16  
 AEN LAB NO: 9609319-03  
 AEN WORK ORDER: 9609319  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                   | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS     | DATE<br>ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace     | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| #Digestion/ICP            | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| CCR 17 Metals (Low Level) |                 |         |                    |           |                  |
| Ag Silver                 | EPA 200.7       | ND      | 0.05               | mg/L      | 10/04/96         |
| As Arsenic                | EPA 206.2       | ND      | 0.005              | mg/L      | 10/02/96         |
| Ba Barium                 | EPA 200.7       | ND      | 0.1                | mg/L      | 10/04/96         |
| Be Beryllium              | EPA 200.7       | 0.02 *  | 0.02               | mg/L      | 10/04/96         |
| Cd Cadmium                | EPA 200.7       | 7.1 *   | 0.05               | mg/L      | 10/04/96         |
| Co Cobalt                 | EPA 200.7       | 4.6 *   | 0.05               | mg/L      | 10/04/96         |
| Cr Chromium               | EPA 200.7       | ND      | 0.1                | mg/L      | 10/04/96         |
| Cu Copper                 | EPA 200.7       | 17 *    | 0.1                | mg/L      | 10/04/96         |
| Hg Mercury                | EPA 245.1       | ND      | 0.0002             | mg/L      | 10/01/96         |
| Mo Molybdenum             | EPA 200.7       | ND      | 0.1                | mg/L      | 10/04/96         |
| Ni Nickel                 | EPA 200.7       | 12 *    | 0.1                | mg/L      | 10/04/96         |
| Pb Lead                   | EPA 239.2       | ND      | 0.005              | mg/L      | 10/02/96         |
| Sb Antimony               | EPA 200.7       | ND      | 0.2                | mg/L      | 10/04/96         |
| Se Selenium               | EPA 270.2       | ND      | 0.01               | mg/L      | 10/02/96         |
| Tl Thallium               | EPA 200.7       | 0.7 *   | 0.5                | mg/L      | 10/04/96         |
| V Vanadium                | EPA 200.7       | ND      | 0.05               | mg/L      | 10/04/96         |
| Zn Zinc                   | EPA 200.7       | 2,400 * | 0.1                | mg/L      | 10/04/96         |

Reporting limits elevated for metals due to matrix interference.

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## LEVINE-FRICKE

SAMPLE ID: LF-12  
 AEN LAB NO: 9609319-04  
 AEN WORK ORDER: 9609319  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT    | REPORTING<br>LIMIT | UNITS       | DATE<br>ANALYZED |
|----------------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace            | EPA 200.0       | -         |                    | Prep Date   | 09/26/96         |
| #Digestion/ICP                   | EPA 200.0       | -         |                    | Prep Date   | 09/26/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |           |                    |             |                  |
| Ag                               | Silver          | EPA 200.7 | ND                 | 0.05 mg/L   | 10/04/96         |
| As                               | Arsenic         | EPA 206.2 | ND                 | 0.002 mg/L  | 09/27/96         |
| Ba                               | Barium          | EPA 200.7 | ND                 | 0.1 mg/L    | 10/04/96         |
| Be                               | Beryllium       | EPA 200.7 | 0.03 *             | 0.02 mg/L   | 10/04/96         |
| Cd                               | Cadmium         | EPA 200.7 | 3.0 *              | 0.05 mg/L   | 10/04/96         |
| Co                               | Cobalt          | EPA 200.7 | 2.2 *              | 0.05 mg/L   | 10/04/96         |
| Cr                               | Chromium        | EPA 200.7 | ND                 | 0.1 mg/L    | 10/04/96         |
| Cu                               | Copper          | EPA 200.7 | 1.3 *              | 0.1 mg/L    | 10/04/96         |
| Hg                               | Mercury         | EPA 245.1 | 0.0006 *           | 0.0002 mg/L | 10/01/96         |
| Mo                               | Molybdenum      | EPA 200.7 | 0.1 *              | 0.1 mg/L    | 10/04/96         |
| Ni                               | Nickel          | EPA 200.7 | 6.1 *              | 0.1 mg/L    | 10/04/96         |
| Pb                               | Lead            | EPA 239.2 | ND                 | 0.005 mg/L  | 10/02/96         |
| Sb                               | Antimony        | EPA 200.7 | ND                 | 0.2 mg/L    | 10/04/96         |
| Se                               | Selenium        | EPA 270.2 | 0.041 *            | 0.004 mg/L  | 10/02/96         |
| Tl                               | Thallium        | EPA 200.7 | ND                 | 0.5 mg/L    | 10/04/96         |
| V                                | Vanadium        | EPA 200.7 | ND                 | 0.05 mg/L   | 10/04/96         |
| Zn                               | Zinc            | EPA 200.7 | 2,700 *            | 0.1 mg/L    | 10/04/96         |

Reporting limits elevated for metals due to matrix interference.

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## LEVINE-FRICKE

SAMPLE ID: LF-5  
 AEN LAB NO: 9609319-05  
 AEN WORK ORDER: 9609319  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                   | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS     | DATE<br>ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace     | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| #Digestion/ICP            | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| CCR 17 Metals (Low Level) |                 |         |                    |           |                  |
| Ag Silver                 | EPA 200.7       | 0.014 * | 0.001              | mg/L      | 10/04/96         |
| As Arsenic                | EPA 206.2       | ND      | 0.01               | mg/L      | 10/02/96         |
| Ba Barium                 | EPA 200.7       | 0.014 * | 0.002              | mg/L      | 10/04/96         |
| Be Beryllium              | EPA 200.7       | ND      | 0.0005             | mg/L      | 10/04/96         |
| Cd Cadmium                | EPA 200.7       | 0.32 *  | 0.001              | mg/L      | 10/04/96         |
| Co Cobalt                 | EPA 200.7       | 1.3 *   | 0.001              | mg/L      | 10/04/96         |
| Cr Chromium               | EPA 200.7       | ND      | 0.002              | mg/L      | 10/04/96         |
| Cu Copper                 | EPA 200.7       | 0.009 * | 0.002              | mg/L      | 10/04/96         |
| Hg Mercury                | EPA 245.1       | ND      | 0.0002             | mg/L      | 10/01/96         |
| Mo Molybdenum             | EPA 200.7       | ND      | 0.002              | mg/L      | 10/04/96         |
| Ni Nickel                 | EPA 200.7       | 3.8 *   | 0.002              | mg/L      | 10/04/96         |
| Pb Lead                   | EPA 239.2       | ND      | 0.01               | mg/L      | 10/02/96         |
| Sb Antimony               | EPA 200.7       | ND      | 0.004              | mg/L      | 10/04/96         |
| Se Selenium               | EPA 270.2       | ND      | 0.02               | mg/L      | 10/02/96         |
| Tl Thallium               | EPA 200.7       | 0.03 *  | 0.01               | mg/L      | 10/04/96         |
| V Vanadium                | EPA 200.7       | ND      | 0.001              | mg/L      | 10/04/96         |
| Zn Zinc                   | EPA 200.7       | 64 *    | 0.005              | mg/L      | 10/04/96         |

Reporting limits elevated for arsenic, lead and selenium due to matrix interference.

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## LEVINE-FRICKE

SAMPLE ID: LF-3  
 AEN LAB NO: 9609319-06  
 AEN WORK ORDER: 9609319  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT   | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|----------------------------------|-----------------|----------|--------------------|-------|------------------|
| TPH as Gas in water              | 5030/GC-FID     | ND       | 0.05               | mg/L  | 10/01/96         |
| #Digestion/G. Furnace            | EPA 200.0       | -        | Prep Date          |       | 09/26/96         |
| #Digestion/ICP                   | EPA 200.0       | -        | Prep Date          |       | 09/26/96         |
| #Extraction for TPH              | EPA 3510        | -        | Extrn Date         |       | 09/30/96         |
| TPH as Diesel                    | GC-FID          | 0.37 *   | 0.05               | mg/L  | 10/03/96         |
| TPH as Oil                       | GC-FID          | ND       | 0.2                | mg/L  | 10/03/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |          |                    |       |                  |
| Ag Silver                        | EPA 200.7       | ND       | 0.001              | mg/L  | 10/04/96         |
| As Arsenic                       | EPA 206.2       | 4.6 *    | 0.05               | mg/L  | 09/27/96         |
| Ba Barium                        | EPA 200.7       | 0.068 *  | 0.002              | mg/L  | 10/04/96         |
| Be Beryllium                     | EPA 200.7       | 0.0010 * | 0.0005             | mg/L  | 10/04/96         |
| Cd Cadmium                       | EPA 200.7       | 0.051 *  | 0.001              | mg/L  | 10/04/96         |
| Co Cobalt                        | EPA 200.7       | 0.009 *  | 0.001              | mg/L  | 10/04/96         |
| Cr Chromium                      | EPA 200.7       | ND       | 0.002              | mg/L  | 10/04/96         |
| Cu Copper                        | EPA 200.7       | 0.005 *  | 0.002              | mg/L  | 10/04/96         |
| Hg Mercury                       | EPA 245.1       | ND       | 0.0002             | mg/L  | 10/01/96         |
| Mo Molybdenum                    | EPA 200.7       | 0.096 *  | 0.002              | mg/L  | 10/04/96         |
| Ni Nickel                        | EPA 200.7       | 0.008 *  | 0.002              | mg/L  | 10/04/96         |
| Pb Lead                          | EPA 239.2       | ND       | 0.005              | mg/L  | 10/02/96         |
| Sb Antimony                      | EPA 200.7       | ND       | 0.004              | mg/L  | 10/04/96         |
| Se Selenium                      | EPA 270.2       | ND       | 0.1                | mg/L  | 10/02/96         |
| Tl Thallium                      | EPA 200.7       | 0.02 *   | 0.01               | mg/L  | 10/04/96         |
| V Vanadium                       | EPA 200.7       | ND       | 0.001              | mg/L  | 10/04/96         |
| Zn Zinc                          | EPA 200.7       | 4.8 *    | 0.005              | mg/L  | 10/04/96         |

Reporting limits elevated for arsenic, lead and selenium due to matrix interference.

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\* = Value at or above reporting limit

## LEVINE-FRICKE

SAMPLE ID: LF-2  
 AEN LAB NO: 9609319-07  
 AEN WORK ORDER: 9609319  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT    | REPORTING<br>LIMIT | UNITS       | DATE<br>ANALYZED |
|----------------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace            | EPA 200.0       | -         |                    | Prep Date   | 09/26/96         |
| #Digestion/ICP                   | EPA 200.0       | -         |                    | Prep Date   | 09/26/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |           |                    |             |                  |
| Ag                               | Silver          | EPA 200.7 | ND                 | 0.001 mg/L  | 10/04/96         |
| As                               | Arsenic         | EPA 206.2 | ND                 | 0.002 mg/L  | 09/27/96         |
| Ba                               | Barium          | EPA 200.7 | 0.018 *            | 0.002 mg/L  | 10/04/96         |
| Be                               | Beryllium       | EPA 200.7 | ND                 | 0.0005 mg/L | 10/04/96         |
| Cd                               | Cadmium         | EPA 200.7 | ND                 | 0.001 mg/L  | 10/04/96         |
| Co                               | Cobalt          | EPA 200.7 | 0.035 *            | 0.001 mg/L  | 10/04/96         |
| Cr                               | Chromium        | EPA 200.7 | ND                 | 0.002 mg/L  | 10/04/96         |
| Cu                               | Copper          | EPA 200.7 | 0.003 *            | 0.002 mg/L  | 10/04/96         |
| Hg                               | Mercury         | EPA 245.1 | ND                 | 0.0002 mg/L | 10/01/96         |
| Mo                               | Molybdenum      | EPA 200.7 | ND                 | 0.002 mg/L  | 10/04/96         |
| Ni                               | Nickel          | EPA 200.7 | 0.026 *            | 0.002 mg/L  | 10/04/96         |
| Pb                               | Lead            | EPA 239.2 | ND                 | 0.005 mg/L  | 10/02/96         |
| Sb                               | Antimony        | EPA 200.7 | ND                 | 0.004 mg/L  | 10/04/96         |
| Se                               | Selenium        | EPA 270.2 | ND                 | 0.004 mg/L  | 09/27/96         |
| Tl                               | Thallium        | EPA 200.7 | ND                 | 0.01 mg/L   | 10/04/96         |
| V                                | Vanadium        | EPA 200.7 | ND                 | 0.001 mg/L  | 10/04/96         |
| Zn                               | Zinc            | EPA 200.7 | 0.45 *             | 0.005 mg/L  | 10/04/96         |

Reporting limit elevated for lead due to matrix interference.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## LEVINE-FRICKE

SAMPLE ID: LF-4  
 AEN LAB NO: 9609319-08  
 AEN WORK ORDER: 9609319  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                   | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS     | DATE<br>ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace     | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| #Digestion/ICP            | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| CCR 17 Metals (Low Level) |                 |         |                    |           |                  |
| Ag Silver                 | EPA 200.7       | ND      | 0.001              | mg/L      | 10/04/96         |
| As Arsenic                | EPA 206.2       | 0.013 * | 0.002              | mg/L      | 09/27/96         |
| Ba Barium                 | EPA 200.7       | 0.12 *  | 0.002              | mg/L      | 10/04/96         |
| Be Beryllium              | EPA 200.7       | ND      | 0.0005             | mg/L      | 10/04/96         |
| Cd Cadmium                | EPA 200.7       | ND      | 0.001              | mg/L      | 10/04/96         |
| Co Cobalt                 | EPA 200.7       | 0.003 * | 0.001              | mg/L      | 10/04/96         |
| Cr Chromium               | EPA 200.7       | ND      | 0.002              | mg/L      | 10/04/96         |
| Cu Copper                 | EPA 200.7       | ND      | 0.002              | mg/L      | 10/04/96         |
| Hg Mercury                | EPA 245.1       | ND      | 0.0002             | mg/L      | 10/01/96         |
| Mo Molybdenum             | EPA 200.7       | ND      | 0.002              | mg/L      | 10/04/96         |
| Ni Nickel                 | EPA 200.7       | 0.031 * | 0.002              | mg/L      | 10/04/96         |
| Pb Lead                   | EPA 239.2       | ND      | 0.002              | mg/L      | 10/02/96         |
| Sb Antimony               | EPA 200.7       | ND      | 0.004              | mg/L      | 10/04/96         |
| Se Selenium               | EPA 270.2       | ND      | 0.004              | mg/L      | 09/27/96         |
| Tl Thallium               | EPA 200.7       | ND      | 0.01               | mg/L      | 10/04/96         |
| V Vanadium                | EPA 200.7       | 0.001 * | 0.001              | mg/L      | 10/04/96         |
| Zn Zinc                   | EPA 200.7       | 0.053 * | 0.005              | mg/L      | 10/04/96         |

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## LEVINE-FRICKE

SAMPLE ID: LF-10  
 AEN LAB NO: 9609319-09  
 AEN WORK ORDER: 9609319  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/24/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                   | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS     | DATE<br>ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace     | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| #Digestion/ICP            | EPA 200.0       | -       |                    | Prep Date | 09/26/96         |
| CCR 17 Metals (Low Level) |                 |         |                    |           |                  |
| Ag Silver                 | EPA 200.7       | ND      | 0.001              | mg/L      | 10/04/96         |
| As Arsenic                | EPA 206.2       | ND      | 0.005              | mg/L      | 10/02/96         |
| Ba Barium                 | EPA 200.7       | 0.013 * | 0.002              | mg/L      | 10/04/96         |
| Be Beryllium              | EPA 200.7       | ND      | 0.0005             | mg/L      | 10/04/96         |
| Cd Cadmium                | EPA 200.7       | ND      | 0.001              | mg/L      | 10/04/96         |
| Co Cobalt                 | EPA 200.7       | 0.007 * | 0.001              | mg/L      | 10/04/96         |
| Cr Chromium               | EPA 200.7       | ND      | 0.002              | mg/L      | 10/04/96         |
| Cu Copper                 | EPA 200.7       | 0.010 * | 0.002              | mg/L      | 10/04/96         |
| Hg Mercury                | EPA 245.1       | ND      | 0.0002             | mg/L      | 10/01/96         |
| Mo Molybdenum             | EPA 200.7       | ND      | 0.002              | mg/L      | 10/04/96         |
| Ni Nickel                 | EPA 200.7       | 0.083 * | 0.002              | mg/L      | 10/04/96         |
| Pb Lead                   | EPA 239.2       | ND      | 0.002              | mg/L      | 10/02/96         |
| Sb Antimony               | EPA 200.7       | ND      | 0.004              | mg/L      | 10/04/96         |
| Se Selenium               | EPA 270.2       | ND      | 0.01               | mg/L      | 10/02/96         |
| Tl Thallium               | EPA 200.7       | 0.01 *  | 0.01               | mg/L      | 10/04/96         |
| V Vanadium                | EPA 200.7       | 0.004 * | 0.001              | mg/L      | 10/04/96         |
| Zn Zinc                   | EPA 200.7       | 0.061 * | 0.005              | mg/L      | 10/04/96         |

Reporting limits elevated for arsenic and selenium  
 due to matrix interference.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

AEN (CALIFORNIA)  
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9609319

CLIENT PROJECT ID: 3018.95.21

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9609319  
AEN LAB NO: 0930-BLANK  
DATE EXTRACTED: 09/30/96  
DATE ANALYZED: 10/03/96  
INSTRUMENT: C  
MATRIX: WATER

Method Blank

| Analyte       | Result<br>(mg/L) | Reporting<br>Limit<br>(mg/L) |
|---------------|------------------|------------------------------|
| Diesel<br>Oil | ND               | 0.05                         |
|               | ND               | 0.2                          |

## QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9609319  
DATE EXTRACTED: 09/30/96  
INSTRUMENT: C  
MATRIX: WATER

## Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery<br>n-Pentacosane |
|---------------|------------|---------|-----------------------------------|
| 10/03/96      | LF-3       | 06      | 92                                |
| QC Limits:    |            |         | 65-125                            |

DATE EXTRACTED: 09/29/96  
DATE ANALYZED: 10/01/96  
SAMPLE SPIKED: 9608373-14  
INSTRUMENT: C

## Matrix Spike Recovery Summary

| Analyte | Spike Added (mg/L) | Average Percent Recovery | RPD | Percent Recovery | QC Limits RPD |
|---------|--------------------|--------------------------|-----|------------------|---------------|
| Diesel  | 4.00               | 96                       | 1   | 60-110           | 15            |

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9609319  
AEN LAB NO: 1001-BLANK  
DATE ANALYZED: 10/01/96  
INSTRUMENT: F  
MATRIX: WATER

Method Blank

|                 | Result<br>(mg/L) | Reporting<br>Limit<br>(mg/L) |
|-----------------|------------------|------------------------------|
| HCs as Gasoline | ND               | 0.05                         |

## QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9609319

INSTRUMENT: F

MATRIX: WATER

## Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery<br>Fluorobenzene |
|---------------|------------|---------|-----------------------------------|
| 10/01/96      | LF-3       | 06      | 119                               |
| QC Limits:    |            |         | 70-130                            |

DATE ANALYZED: 09/30/96

SAMPLE SPIKED: 9609392-04

INSTRUMENT: F

## Matrix Spike Recovery Summary

| Analyte                  | Spike Added (ug/L) | Average Percent Recovery | RPD | QC Limits<br>Percent Recovery | RPD |
|--------------------------|--------------------|--------------------------|-----|-------------------------------|-----|
| Hydrocarbons as Gasoline | 500                | 107                      | 6   | 66-117                        | 19  |

## QUALITY CONTROL DATA

AEN JOB NO: 9609319  
SAMPLE SPIKED: DI WATER  
DATE(S) ANALYZED: 09/27-10/02/96  
MATRIX: WATER

## Method Blank and Spike Recovery Summary

| Analyte      | Inst./Method | Blank            | Spike           | MS                  | RPD | QC Limits           |     |
|--------------|--------------|------------------|-----------------|---------------------|-----|---------------------|-----|
|              |              | Result<br>(mg/L) | Added<br>(mg/L) | Percent<br>Recovery |     | Percent<br>Recovery | RPD |
| Ag, Silver   | ICP/200.7    | ND               | 0.005           | 82                  | 5   | 75-125              | 16  |
| As, Arsenic  | 4000/206.2   | ND               | 0.04            | 114                 | 1   | 69-136              | 13  |
| Ba, Barium   | ICP/200.7    | ND               | 0.2             | 98                  | 2   | 75-125              | 16  |
| Cd, Cadmium  | ICP/200.7    | ND               | 0.01            | 104                 | 7   | 75-125              | 16  |
| Cr, Chromium | ICP/200.7    | ND               | 0.02            | 91                  | 6   | 75-125              | 16  |
| Cu, Copper   | ICP/200.7    | ND               | 0.025           | 100                 | 2   | 75-125              | 16  |
| Hg, Mercury  | Hg/245.1     | ND               | 2.0 ug/L        | 107                 | 1   | 89-121              | 10  |
| Ni, Nickel   | ICP/200.7    | ND               | 0.05            | 96                  | 3   | 75-125              | 16  |
| Pb, Lead     | 4000/239.2   | ND               | 0.2             | 76                  | <1  | 75-125              | 14  |
| Se, Selenium | 4000/270.2   | ND               | 0.08            | 108                 | 2   | 75-115              | 13  |
| Zn, Zinc     | ICP/200.7    | ND               | 0.05            | 101                 | 2   | 75-125              | 16  |

\*\*\*END OF REPORT\*\*\*

**CHAIN OF CUSTODY / ANALYSES REQUEST FORM**

R 100  
R353

9609319

| Project No.: 3018 95 21         |   |              | Field Logbook No.:             |                             |  | Date: 9/24/96              |                        | Serial No.:<br>No 17602 |                        |      |      |                              |
|---------------------------------|---|--------------|--------------------------------|-----------------------------|--|----------------------------|------------------------|-------------------------|------------------------|------|------|------------------------------|
| Project Name: Volvo GM          |   |              | Project Location: OAKLAND, CA. |                             |  |                            |                        |                         |                        |      |      |                              |
| Sampler (Signature): J.C. K     |   |              | ANALYSES                       |                             |  |                            |                        |                         | Samplers:<br>JCK       |      |      |                              |
| SAMPLES                         |   |              |                                |                             |  |                            |                        |                         | REMARKS                |      |      |                              |
| SAMPLE NO.                      | DATE  | TIME         | LAB SAMPLE NO.                 | NO. OF CONTAINERS           | SAMPLE TYPE  | TRUE 22S<br>FIELD FILTERED | TPHg<br>FIELD FILTERED | TPHO<br>FIELD FILTERED  | TPHO<br>FIELD FILTERED | HOLD | RUSH |                              |
| LF-15                           | 9/24/96   | 11:30        | 01A                            | 1                           | H <sub>2</sub> O                                   | X                          |                        |                         |                        |      |      | STD TMT                      |
| LF-1                            |   | 11:55        | 02A                            | 1                           |  | X                          |                        |                         |                        |      |      |                              |
| LF-16                           |   | 12:15        | 03A                            | 1                           |  | X                          |                        |                         |                        |      |      | RESULTS TO JOHN KEELER       |
| LF-12                           |   | 14:35        | 04A                            | 1                           |  | X                          |                        |                         |                        |      |      |                              |
| LF-5                            |   | 14:20        | 05A                            | 1                           |  | X                          |                        |                         |                        |      |      | TRUE 22 DISSOLVED METALS     |
| LF-3                            |   | 16:40        | 06A-F                          | 6                           |  | X                          | X                      | X                       | X                      |      |      | FIELD FILTERED               |
| LF-2                            |   | 17:15        | 07A                            | 1                           |  | X                          |                        |                         |                        |      |      | LAB TO PRESERVE              |
| LF-4                            |   | 17:35        | 08A                            | 1                           |  | X                          |                        |                         |                        |      |      |                              |
| LF-10                           | ↓   | 18:10        | 09A                            | 1                           |  | X                          |                        |                         |                        |      |      | BASIN PLAN DETECTION LIMITS. |
|                                 |   |              |                                |                             |  |                            |                        |                         |                        |      |      |                              |
|                                 |   |              |                                |                             |  |                            |                        |                         |                        |      |      |                              |
| RELINQUISHED BY:<br>(Signature) | J.C. K  | DATE 9/25/96 | TIME 11:20                     | RECEIVED BY:<br>(Signature) | M. Stankus   | DATE 9/25/96               | TIME 12:00             |                         |                        |      |      |                              |
| RELINQUISHED BY:<br>(Signature) | J.C. K  | DATE 9/25/96 | TIME 12:30                     | RECEIVED BY:<br>(Signature) | Amye Gillespie                                     | DATE 9/25/96               | TIME 13:00             |                         |                        |      |      |                              |
| RELINQUISHED BY:<br>(Signature) | J.C. K  | DATE         | TIME                           | RECEIVED BY:<br>(Signature) |  | DATE                       | TIME                   |                         |                        |      |      |                              |
| METHOD OF SHIPMENT:             |   | DATE         | TIME                           | LAB COMMENTS:               |  |                            |                        |                         |                        |      |      |                              |
| Sample Collector:               | LEVINE-FRICKE<br>1900 Powell Street, 12th Floor<br>Emeryville, California 94608<br>(510) 652-4500 |              |                                |                             | Analytical Laboratory:<br>AEN<br>PLEASANT HILL, CA |                            |                        |                         |                        |      |      |                              |

# American Environmental Network

## Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

LEVINE-FRICKE-RECON  
1900 POWELL ST. 12TH FL.  
EMERYVILLE, CA 94608

ATTN: JOHN KEELER  
CLIENT PROJ. ID: 3018.95.21  
CLIENT PROJ. NAME: VOLVO GM  
C.O.C. NUMBER: 17643, 17634

REPORT DATE: 10/10/96  
DATE(S) SAMPLED: 09/25/96  
DATE(S) RECEIVED: 09/25-26/96  
AEN WORK ORDER: 9609329

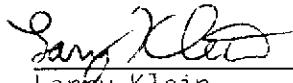
### PROJECT SUMMARY:

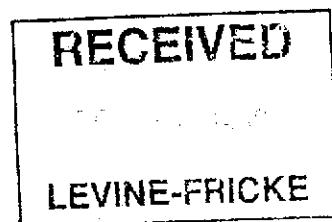
On September 25 & 26, 1996, this laboratory received 9 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

  
\_\_\_\_\_  
Larry Klein  
Laboratory Director



## LEVINE-FRICKE

SAMPLE ID: LF-7  
 AEN LAB NO: 9609329-01  
 AEN WORK ORDER: 9609329  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/25/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                   | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS     | DATE<br>ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace     | EPA 200.0       | -       |                    | Prep Date | 09/27/96         |
| #Digestion/ICP            | EPA 200.0       | -       |                    | Prep Date | 09/27/96         |
| CCR 17 Metals (Low Level) |                 |         |                    |           |                  |
| Ag Silver                 | EPA 200.7       | ND      | 0.001              | mg/L      | 09/30/96         |
| As Arsenic                | EPA 206.2       | 0.035 * | 0.002              | mg/L      | 09/30/96         |
| Ba Barium                 | EPA 200.7       | 0.24 *  | 0.002              | mg/L      | 09/30/96         |
| Be Beryllium              | EPA 200.7       | ND      | 0.0005             | mg/L      | 09/30/96         |
| Cd Cadmium                | EPA 200.7       | ND      | 0.001              | mg/L      | 09/30/96         |
| Co Cobalt                 | EPA 200.7       | ND      | 0.001              | mg/L      | 09/30/96         |
| Cr Chromium               | EPA 200.7       | ND      | 0.002              | mg/L      | 09/30/96         |
| Cu Copper                 | EPA 200.7       | ND      | 0.002              | mg/L      | 09/30/96         |
| Hg Mercury                | EPA 245.1       | ND      | 0.0002             | mg/L      | 10/06/96         |
| Mo Molybdenum             | EPA 200.7       | 0.007 * | 0.002              | mg/L      | 09/30/96         |
| Ni Nickel                 | EPA 200.7       | 0.014 * | 0.002              | mg/L      | 09/30/96         |
| Pb Lead                   | EPA 239.2       | ND      | 0.002              | mg/L      | 10/01/96         |
| Sb Antimony               | EPA 200.7       | ND      | 0.004              | mg/L      | 09/30/96         |
| Se Selenium               | EPA 270.2       | ND      | 0.004              | mg/L      | 09/30/96         |
| Tl Thallium               | EPA 200.7       | ND      | 0.01               | mg/L      | 09/30/96         |
| V Vanadium                | EPA 200.7       | 0.007 * | 0.001              | mg/L      | 09/30/96         |
| Zn Zinc                   | EPA 200.7       | 0.023 * | 0.005              | mg/L      | 09/30/96         |

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## LEVINE-FRICKE

SAMPLE ID: LF-6  
 AEN LAB NO: 9609329-02  
 AEN WORK ORDER: 9609329  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/25/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT    | REPORTING<br>LIMIT | UNITS       | DATE<br>ANALYZED |
|----------------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace            | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| #Digestion/ICP                   | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |           |                    |             |                  |
| Ag                               | Silver          | EPA 200.7 | 0.007 *            | 0.001 mg/L  | 09/30/96         |
| As                               | Arsenic         | EPA 206.2 | ND                 | 0.002 mg/L  | 09/30/96         |
| Ba                               | Barium          | EPA 200.7 | 0.013 *            | 0.002 mg/L  | 09/30/96         |
| Be                               | Beryllium       | EPA 200.7 | 0.0022 *           | 0.0005 mg/L | 09/30/96         |
| Cd                               | Cadmium         | EPA 200.7 | 0.093 *            | 0.001 mg/L  | 09/30/96         |
| Co                               | Cobalt          | EPA 200.7 | 0.83 *             | 0.001 mg/L  | 09/30/96         |
| Cr                               | Chromium        | EPA 200.7 | ND                 | 0.002 mg/L  | 09/30/96         |
| Cu                               | Copper          | EPA 200.7 | 0.009 *            | 0.002 mg/L  | 09/30/96         |
| Hg                               | Mercury         | EPA 245.1 | ND                 | 0.0002 mg/L | 10/06/96         |
| Mo                               | Molybdenum      | EPA 200.7 | ND                 | 0.002 mg/L  | 09/30/96         |
| Ni                               | Nickel          | EPA 200.7 | 2.9 *              | 0.002 mg/L  | 09/30/96         |
| Pb                               | Lead            | EPA 239.2 | ND                 | 0.002 mg/L  | 10/01/96         |
| Sb                               | Antimony        | EPA 200.7 | ND                 | 0.004 mg/L  | 09/30/96         |
| Se                               | Selenium        | EPA 270.2 | ND                 | 0.004 mg/L  | 09/30/96         |
| Tl                               | Thallium        | EPA 200.7 | 0.04 *             | 0.01 mg/L   | 09/30/96         |
| V                                | Vanadium        | EPA 200.7 | ND                 | 0.001 mg/L  | 09/30/96         |
| Zn                               | Zinc            | EPA 200.7 | 11 *               | 0.005 mg/L  | 09/30/96         |

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## LEVINE-FRICKE

SAMPLE ID: LF-17  
 AEN LAB NO: 9609329-03  
 AEN WORK ORDER: 9609329  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/25/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT    | REPORTING<br>LIMIT | UNITS       | DATE<br>ANALYZED |
|----------------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace            | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| #Digestion/ICP                   | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |           |                    |             |                  |
| Ag                               | Silver          | EPA 200.7 | ND                 | 0.001 mg/L  | 09/30/96         |
| As                               | Arsenic         | EPA 206.2 | 0.003 *            | 0.002 mg/L  | 09/30/96         |
| Ba                               | Barium          | EPA 200.7 | 0.066 *            | 0.002 mg/L  | 09/30/96         |
| Be                               | Beryllium       | EPA 200.7 | ND                 | 0.0005 mg/L | 09/30/96         |
| Cd                               | Cadmium         | EPA 200.7 | 0.002 *            | 0.001 mg/L  | 09/30/96         |
| Co                               | Cobalt          | EPA 200.7 | 0.004 *            | 0.001 mg/L  | 09/30/96         |
| Cr                               | Chromium        | EPA 200.7 | ND                 | 0.002 mg/L  | 09/30/96         |
| Cu                               | Copper          | EPA 200.7 | ND                 | 0.002 mg/L  | 09/30/96         |
| Hg                               | Mercury         | EPA 245.1 | ND                 | 0.0002 mg/L | 10/06/96         |
| Mo                               | Molybdenum      | EPA 200.7 | 0.002 *            | 0.002 mg/L  | 09/30/96         |
| Ni                               | Nickel          | EPA 200.7 | 0.018 *            | 0.002 mg/L  | 09/30/96         |
| Pb                               | Lead            | EPA 239.2 | ND                 | 0.002 mg/L  | 10/01/96         |
| Sb                               | Antimony        | EPA 200.7 | ND                 | 0.004 mg/L  | 09/30/96         |
| Se                               | Selenium        | EPA 270.2 | ND                 | 0.004 mg/L  | 09/30/96         |
| Tl                               | Thallium        | EPA 200.7 | ND                 | 0.01 mg/L   | 09/30/96         |
| V                                | Vanadium        | EPA 200.7 | 0.004 *            | 0.001 mg/L  | 09/30/96         |
| Zn                               | Zinc            | EPA 200.7 | 0.041 *            | 0.005 mg/L  | 09/30/96         |

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## LEVINE-FRICKE

SAMPLE ID: LF-9  
 AEN LAB NO: 9609329-04  
 AEN WORK ORDER: 9609329  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/25/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT    | REPORTING<br>LIMIT | UNITS       | DATE<br>ANALYZED |
|----------------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace            | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| #Digestion/ICP                   | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |           |                    |             |                  |
| Ag                               | Silver          | EPA 200.7 | ND                 | 0.001 mg/L  | 09/30/96         |
| As                               | Arsenic         | EPA 206.2 | 0.22 *             | 0.002 mg/L  | 10/02/96         |
| Ba                               | Barium          | EPA 200.7 | 0.015 *            | 0.002 mg/L  | 09/30/96         |
| Be                               | Beryllium       | EPA 200.7 | ND                 | 0.0005 mg/L | 09/30/96         |
| Cd                               | Cadmium         | EPA 200.7 | 0.048 *            | 0.001 mg/L  | 09/30/96         |
| Co                               | Cobalt          | EPA 200.7 | 0.031 *            | 0.001 mg/L  | 09/30/96         |
| Cr                               | Chromium        | EPA 200.7 | ND                 | 0.002 mg/L  | 09/30/96         |
| Cu                               | Copper          | EPA 200.7 | ND                 | 0.002 mg/L  | 09/30/96         |
| Hg                               | Mercury         | EPA 245.1 | ND                 | 0.0002 mg/L | 10/06/96         |
| Mo                               | Molybdenum      | EPA 200.7 | 0.005 *            | 0.002 mg/L  | 09/30/96         |
| Ni                               | Nickel          | EPA 200.7 | 0.096 *            | 0.002 mg/L  | 09/30/96         |
| Pb                               | Lead            | EPA 239.2 | ND                 | 0.002 mg/L  | 10/01/96         |
| Sb                               | Antimony        | EPA 200.7 | ND                 | 0.004 mg/L  | 09/30/96         |
| Se                               | Selenium        | EPA 270.2 | ND                 | 0.01 mg/L   | 10/02/96         |
| Tl                               | Thallium        | EPA 200.7 | 0.02 *             | 0.01 mg/L   | 09/30/96         |
| V                                | Vanadium        | EPA 200.7 | ND                 | 0.001 mg/L  | 09/30/96         |
| Zn                               | Zinc            | EPA 200.7 | 33 *               | 0.005 mg/L  | 09/30/96         |

Reporting limit elevated for selenium due to matrix interference.

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## LEVINE-FRICKE

SAMPLE ID: LF-F1  
 AEN LAB NO: 9609329-05  
 AEN WORK ORDER: 9609329  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/25/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                   | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS     | DATE<br>ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace     | EPA 200.0       | -       |                    | Prep Date | 09/27/96         |
| #Digestion/ICP            | EPA 200.0       | -       |                    | Prep Date | 09/27/96         |
| CCR 17 Metals (Low Level) |                 |         |                    |           |                  |
| Ag Silver                 | EPA 200.7       | 0.001 * | 0.001              | mg/L      | 09/30/96         |
| As Arsenic                | EPA 206.2       | 0.22 *  | 0.002              | mg/L      | 10/02/96         |
| Ba Barium                 | EPA 200.7       | 0.021 * | 0.002              | mg/L      | 09/30/96         |
| Be Beryllium              | EPA 200.7       | ND      | 0.0005             | mg/L      | 09/30/96         |
| Cd Cadmium                | EPA 200.7       | 0.078 * | 0.001              | mg/L      | 09/30/96         |
| Co Cobalt                 | EPA 200.7       | 0.099 * | 0.001              | mg/L      | 09/30/96         |
| Cr Chromium               | EPA 200.7       | ND      | 0.002              | mg/L      | 09/30/96         |
| Cu Copper                 | EPA 200.7       | ND      | 0.002              | mg/L      | 09/30/96         |
| Hg Mercury                | EPA 245.1       | ND      | 0.0002             | mg/L      | 10/06/96         |
| Mo Molybdenum             | EPA 200.7       | 0.013 * | 0.002              | mg/L      | 09/30/96         |
| Ni Nickel                 | EPA 200.7       | 0.078 * | 0.002              | mg/L      | 09/30/96         |
| Pb Lead                   | EPA 239.2       | ND      | 0.002              | mg/L      | 10/01/96         |
| Sb Antimony               | EPA 200.7       | ND      | 0.004              | mg/L      | 09/30/96         |
| Se Selenium               | EPA 270.2       | ND      | 0.004              | mg/L      | 09/30/96         |
| Tl Thallium               | EPA 200.7       | 0.02 *  | 0.01               | mg/L      | 09/30/96         |
| V Vanadium                | EPA 200.7       | ND      | 0.001              | mg/L      | 09/30/96         |
| Zn Zinc                   | EPA 200.7       | 30 *    | 0.005              | mg/L      | 09/30/96         |

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## LEVINE-FRICKE

SAMPLE ID: MW-1  
 AEN LAB NO: 9609329-06  
 AEN WORK ORDER: 9609329  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/25/96  
 DATE RECEIVED: 09/25/96  
 REPORT DATE: 10/10/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT    | REPORTING<br>LIMIT | UNITS       | DATE<br>ANALYZED |
|----------------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace            | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| #Digestion/ICP                   | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |           |                    |             |                  |
| Ag                               | Silver          | EPA 200.7 | ND                 | 0.001 mg/L  | 09/30/96         |
| As                               | Arsenic         | EPA 206.2 | 0.098 *            | 0.002 mg/L  | 10/02/96         |
| Ba                               | Barium          | EPA 200.7 | 0.084 *            | 0.002 mg/L  | 09/30/96         |
| Be                               | Beryllium       | EPA 200.7 | ND                 | 0.0005 mg/L | 09/30/96         |
| Cd                               | Cadmium         | EPA 200.7 | 0.005 *            | 0.001 mg/L  | 09/30/96         |
| Co                               | Cobalt          | EPA 200.7 | 0.015 *            | 0.001 mg/L  | 09/30/96         |
| Cr                               | Chromium        | EPA 200.7 | ND                 | 0.002 mg/L  | 09/30/96         |
| Cu                               | Copper          | EPA 200.7 | ND                 | 0.002 mg/L  | 09/30/96         |
| Hg                               | Mercury         | EPA 245.1 | ND                 | 0.0002 mg/L | 10/06/96         |
| Mo                               | Molybdenum      | EPA 200.7 | 0.013 *            | 0.002 mg/L  | 09/30/96         |
| Ni                               | Nickel          | EPA 200.7 | 0.016 *            | 0.002 mg/L  | 09/30/96         |
| Pb                               | Lead            | EPA 239.2 | ND                 | 0.002 mg/L  | 10/01/96         |
| Sb                               | Antimony        | EPA 200.7 | 0.032 *            | 0.004 mg/L  | 09/30/96         |
| Se                               | Selenium        | EPA 270.2 | ND                 | 0.004 mg/L  | 09/30/96         |
| Tl                               | Thallium        | EPA 200.7 | ND                 | 0.01 mg/L   | 09/30/96         |
| V                                | Vanadium        | EPA 200.7 | 0.008 *            | 0.001 mg/L  | 09/30/96         |
| Zn                               | Zinc            | EPA 200.7 | 2.6 *              | 0.005 mg/L  | 09/30/96         |

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## LEVINE-FRICKE

SAMPLE ID: LF-11  
 AEN LAB NO: 9609329-07  
 AEN WORK ORDER: 9609329  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/25/96  
 DATE RECEIVED: 09/26/96  
 REPORT DATE: 10/10/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT    | REPORTING<br>LIMIT | UNITS       | DATE<br>ANALYZED |
|----------------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace            | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| #Digestion/ICP                   | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |           |                    |             |                  |
| Ag                               | Silver          | EPA 200.7 | ND                 | 1 mg/L      | 10/08/96         |
| As                               | Arsenic         | EPA 206.2 | ND                 | 0.01 mg/L   | 10/02/96         |
| Ba                               | Barium          | EPA 200.7 | ND                 | 2 mg/L      | 10/08/96         |
| Be                               | Beryllium       | EPA 200.7 | ND                 | 0.4 mg/L    | 10/08/96         |
| Cd                               | Cadmium         | EPA 200.7 | 130 *              | 1 mg/L      | 10/08/96         |
| Co                               | Cobalt          | EPA 200.7 | 7 *                | 1 mg/L      | 10/08/96         |
| Cr                               | Chromium        | EPA 200.7 | ND                 | 2 mg/L      | 10/08/96         |
| Cu                               | Copper          | EPA 200.7 | 5 *                | 2 mg/L      | 10/08/96         |
| Hg                               | Mercury         | EPA 245.1 | ND                 | 0.0002 mg/L | 10/06/96         |
| Mo                               | Molybdenum      | EPA 200.7 | ND                 | 2 mg/L      | 10/08/96         |
| Ni                               | Nickel          | EPA 200.7 | 24 *               | 2 mg/L      | 10/08/96         |
| Pb                               | Lead            | EPA 239.2 | ND                 | 0.1 mg/L    | 10/01/96         |
| Sb                               | Antimony        | EPA 200.7 | ND                 | 4 mg/L      | 10/08/96         |
| Se                               | Selenium        | EPA 270.2 | ND                 | 0.02 mg/L   | 10/02/96         |
| Tl                               | Thallium        | EPA 200.7 | ND                 | 10 mg/L     | 10/08/96         |
| V                                | Vanadium        | EPA 200.7 | ND                 | 1 mg/L      | 10/08/96         |
| Zn                               | Zinc            | EPA 200.7 | 40,000 *           | 2 mg/L      | 10/08/96         |

Reporting limits elevated for metals due to matrix interference.

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## LEVINE-FRICKE

SAMPLE ID: LF-111  
 AEN LAB NO: 9609329-08  
 AEN WORK ORDER: 9609329  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/25/96  
 DATE RECEIVED: 09/26/96  
 REPORT DATE: 10/10/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT    | REPORTING<br>LIMIT | UNITS       | DATE<br>ANALYZED |
|----------------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace            | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| #Digestion/ICP                   | EPA 200.0       | -         |                    | Prep Date   | 09/27/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |           |                    |             |                  |
| Ag                               | Silver          | EPA 200.7 | ND                 | 1 mg/L      | 10/08/96         |
| As                               | Arsenic         | EPA 206.2 | ND                 | 0.01 mg/L   | 10/02/96         |
| Ba                               | Barium          | EPA 200.7 | ND                 | 2 mg/L      | 10/08/96         |
| Be                               | Beryllium       | EPA 200.7 | ND                 | 0.4 mg/L    | 10/08/96         |
| Cd                               | Cadmium         | EPA 200.7 | 130 *              | 1 mg/L      | 10/08/96         |
| Co                               | Cobalt          | EPA 200.7 | 6 *                | 1 mg/L      | 10/08/96         |
| Cr                               | Chromium        | EPA 200.7 | ND                 | 2 mg/L      | 10/08/96         |
| Cu                               | Copper          | EPA 200.7 | 5 *                | 2 mg/L      | 10/08/96         |
| Hg                               | Mercury         | EPA 245.1 | ND                 | 0.0002 mg/L | 10/06/96         |
| Mo                               | Molybdenum      | EPA 200.7 | 2 *                | 2 mg/L      | 10/08/96         |
| Ni                               | Nickel          | EPA 200.7 | 24 *               | 2 mg/L      | 10/08/96         |
| Pb                               | Lead            | EPA 239.2 | ND                 | 0.1 mg/L    | 10/01/96         |
| Sb                               | Antimony        | EPA 200.7 | ND                 | 4 mg/L      | 10/08/96         |
| Se                               | Selenium        | EPA 270.2 | ND                 | 0.02 mg/L   | 10/02/96         |
| Tl                               | Thallium        | EPA 200.7 | ND                 | 10 mg/L     | 10/08/96         |
| V                                | Vanadium        | EPA 200.7 | ND                 | 1 mg/L      | 10/08/96         |
| Zn                               | Zinc            | EPA 200.7 | 40,000 *           | 2 mg/L      | 10/08/96         |

Reporting limits elevated for metals due to matrix interference.

ND = Not detected at or above the reporting limit

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## LEVINE-FRICKE

SAMPLE ID: LF-8  
 AEN LAB NO: 9609329-09  
 AEN WORK ORDER: 9609329  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/25/96  
 DATE RECEIVED: 09/26/96  
 REPORT DATE: 10/10/96

| ANALYTE                          | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS      | DATE<br>ANALYZED |
|----------------------------------|-----------------|---------|--------------------|------------|------------------|
| TPH as Gas in water              | 5030/GC-FID     | 0.21 *  | 0.05               | mg/L       | 10/01/96         |
| #Digestion/G. Furnace            | EPA 200.0       | -       |                    | Prep Date  | 09/27/96         |
| #Digestion/ICP                   | EPA 200.0       | -       |                    | Prep Date  | 09/27/96         |
| #Extraction for TPH              | EPA 3510        | -       |                    | Extrn Date | 10/01/96         |
| TPH as Diesel                    | GC-FID          | 2.5 *   | 0.05               | mg/L       | 10/04/96         |
| TPH as Oil                       | GC-FID          | ND      | 0.2                | mg/L       | 10/04/96         |
| <b>CCR 17 Metals (Low Level)</b> |                 |         |                    |            |                  |
| Ag Silver                        | EPA 200.7       | ND      | 0.001              | mg/L       | 09/30/96         |
| As Arsenic                       | EPA 206.2       | 3.2 *   | 0.002              | mg/L       | 10/02/96         |
| Ba Barium                        | EPA 200.7       | 0.058 * | 0.002              | mg/L       | 09/30/96         |
| Be Beryllium                     | EPA 200.7       | ND      | 0.0005             | mg/L       | 09/30/96         |
| Cd Cadmium                       | EPA 200.7       | 0.025 * | 0.001              | mg/L       | 09/30/96         |
| Co Cobalt                        | EPA 200.7       | ND      | 0.001              | mg/L       | 09/30/96         |
| Cr Chromium                      | EPA 200.7       | ND      | 0.002              | mg/L       | 09/30/96         |
| Cu Copper                        | EPA 200.7       | ND      | 0.002              | mg/L       | 09/30/96         |
| Hg Mercury                       | EPA 245.1       | ND      | 0.0002             | mg/L       | 10/06/96         |
| Mo Molybdenum                    | EPA 200.7       | ND      | 0.002              | mg/L       | 09/30/96         |
| Ni Nickel                        | EPA 200.7       | 0.002 * | 0.002              | mg/L       | 09/30/96         |
| Pb Lead                          | EPA 239.2       | ND      | 0.002              | mg/L       | 10/01/96         |
| Sb Antimony                      | EPA 200.7       | ND      | 0.004              | mg/L       | 09/30/96         |
| Se Selenium                      | EPA 270.2       | ND      | 0.004              | mg/L       | 09/30/96         |
| Tl Thallium                      | EPA 200.7       | ND      | 0.01               | mg/L       | 09/30/96         |
| V Vanadium                       | EPA 200.7       | ND      | 0.001              | mg/L       | 09/30/96         |
| Zn Zinc                          | EPA 200.7       | 0.036 * | 0.005              | mg/L       | 09/30/96         |
| #Extraction for BNAs             | EPA 3520        | -       |                    | Extrn Date | 09/27/96         |
| <b>Semi-Volatile Organics</b>    |                 |         |                    |            |                  |
| Acenaphthene                     | 83-32-9         | 400 *   | 10                 | ug/L       | 10/03/96         |
| Acenaphthylene                   | 208-96-8        | ND      | 10                 | ug/L       | 10/01/96         |
| Anthracene                       | 120-12-7        | 27 *    | 10                 | ug/L       | 10/01/96         |
| Benzidine                        | 92-87-5         | ND      | 50                 | ug/L       | 10/01/96         |
| Benzoic Acid                     | 65-85-0         | ND      | 50                 | ug/L       | 10/01/96         |
| Benzo(a)anthracene               | 56-55-3         | ND      | 10                 | ug/L       | 10/01/96         |
| Benzo(b)fluoranthene             | 205-99-2        | ND      | 10                 | ug/L       | 10/01/96         |
| Benzo(k)fluoranthene             | 207-08-9        | ND      | 10                 | ug/L       | 10/01/96         |

## LEVINE-FRICKE

SAMPLE ID: LF-8  
 AEN LAB NO: 9609329-09  
 AEN WORK ORDER: 9609329  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/25/96  
 DATE RECEIVED: 09/26/96  
 REPORT DATE: 10/10/96

| ANALYTE                      | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|------------------------------|-----------------|--------|--------------------|-------|------------------|
| Benzo(g,h,i)perylene         | 191-24-2        | ND     | 10                 | ug/L  | 10/01/96         |
| Benzo(a)pyrene               | 50-32-8         | ND     | 10                 | ug/L  | 10/01/96         |
| Benzyl Alcohol               | 100-51-6        | ND     | 20                 | ug/L  | 10/01/96         |
| Bis(2-chloroethoxy)methane   | 111-91-1        | ND     | 10                 | ug/L  | 10/01/96         |
| Bis(2-chloroethyl) Ether     | 111-44-4        | ND     | 10                 | ug/L  | 10/01/96         |
| Bis(2-chloroisopropyl) Ether | 108-60-1        | ND     | 10                 | ug/L  | 10/01/96         |
| Bis(2-ethylhexyl) Phthalate  | 117-81-7        | ND     | 10                 | ug/L  | 10/01/96         |
| 4-Bromophenyl Phenyl Ether   | 101-55-3        | ND     | 10                 | ug/L  | 10/01/96         |
| Butylbenzyl Phthalate        | 85-68-7         | ND     | 10                 | ug/L  | 10/01/96         |
| 4-Chloroaniline              | 106-47-8        | ND     | 20                 | ug/L  | 10/01/96         |
| 2-Chloronaphthalene          | 91-58-7         | ND     | 10                 | ug/L  | 10/01/96         |
| 4-Chlorophenyl Phenyl Ether  | 7005-72-3       | ND     | 10                 | ug/L  | 10/01/96         |
| Chrysene                     | 218-01-9        | ND     | 10                 | ug/L  | 10/01/96         |
| Dibenzo(a,h)anthracene       | 53-70-3         | ND     | 10                 | ug/L  | 10/01/96         |
| Dibenzofuran                 | 132-64-9        | 190 *  | 10                 | ug/L  | 10/01/96         |
| Di-n-butyl Phthalate         | 84-74-2         | ND     | 10                 | ug/L  | 10/01/96         |
| 1,2-Dichlorobenzene          | 95-50-1         | ND     | 10                 | ug/L  | 10/01/96         |
| 1,3-Dichlorobenzene          | 541-73-1        | ND     | 10                 | ug/L  | 10/01/96         |
| 1,4-Dichlorobenzene          | 106-46-7        | ND     | 10                 | ug/L  | 10/01/96         |
| 3,3'-Dichlorobenzidine       | 91-94-1         | ND     | 20                 | ug/L  | 10/01/96         |
| Diethyl Phthalate            | 84-66-2         | ND     | 10                 | ug/L  | 10/01/96         |
| Dimethyl Phthalate           | 131-11-3        | ND     | 10                 | ug/L  | 10/01/96         |
| 2,4-Dinitrotoluene           | 121-14-2        | ND     | 10                 | ug/L  | 10/01/96         |
| 2,6-Dinitrotoluene           | 606-20-2        | ND     | 10                 | ug/L  | 10/01/96         |
| Di-n-octyl Phthalate         | 117-84-0        | ND     | 10                 | ug/L  | 10/01/96         |
| Fluoranthene                 | 206-44-0        | 26 *   | 10                 | ug/L  | 10/01/96         |
| Fluorene                     | 86-73-7         | 150 *  | 10                 | ug/L  | 10/01/96         |
| Hexachlorobenzene            | 118-74-1        | ND     | 10                 | ug/L  | 10/01/96         |
| Hexachlorobutadiene          | 87-68-3         | ND     | 10                 | ug/L  | 10/01/96         |
| Hexachlorocyclopentadiene    | 77-47-4         | ND     | 10                 | ug/L  | 10/01/96         |
| Hexachloroethane             | 67-72-1         | ND     | 10                 | ug/L  | 10/01/96         |
| Indeno(1,2,3-cd)pyrene       | 193-39-5        | ND     | 10                 | ug/L  | 10/01/96         |
| Isophorone                   | 78-59-1         | ND     | 10                 | ug/L  | 10/01/96         |
| 2-Methylnaphthalene          | 91-57-6         | ND     | 10                 | ug/L  | 10/01/96         |
| Naphthalene                  | 91-20-3         | ND     | 10                 | ug/L  | 10/01/96         |
| 2-Nitroaniline               | 88-74-4         | ND     | 50                 | ug/L  | 10/01/96         |
| 3-Nitroaniline               | 99-09-2         | ND     | 50                 | ug/L  | 10/01/96         |
| 4-Nitroaniline               | 100-01-6        | ND     | 50                 | ug/L  | 10/01/96         |
| Nitrobenzene                 | 98-95-3         | ND     | 10                 | ug/L  | 10/01/96         |
| N-Nitrosodiphenylamine       | 86-30-6         | ND     | 10                 | ug/L  | 10/01/96         |
| N-Nitrosodi-n-propylamine    | 621-64-7        | ND     | 10                 | ug/L  | 10/01/96         |
| Phenanthrene                 | 85-01-8         | ND     | 10                 | ug/L  | 10/01/96         |
| Pyrene                       | 129-00-0        | 13 *   | 10                 | ug/L  | 10/01/96         |

## LEVINE-FRICKE

SAMPLE ID: LF-8  
 AEN LAB NO: 9609329-09  
 AEN WORK ORDER: 9609329  
 CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 09/25/96  
 DATE RECEIVED: 09/26/96  
 REPORT DATE: 10/10/96

| ANALYTE                    | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|----------------------------|-----------------|--------|--------------------|-------|------------------|
| 1,2,4-Trichlorobenzene     | 120-82-1        | ND     | 10                 | ug/L  | 10/01/96         |
| 4-Chloro-3-methylphenol    | 59-50-7         | ND     | 10                 | ug/L  | 10/01/96         |
| 2-Chlorophenol             | 95-57-8         | ND     | 10                 | ug/L  | 10/01/96         |
| 2,4-Dichlorophenol         | 120-83-2        | ND     | 10                 | ug/L  | 10/01/96         |
| 2,4-Dimethylphenol         | 105-67-9        | ND     | 10                 | ug/L  | 10/01/96         |
| 4,6-Dinitro-2-methylphenol | 534-52-1        | ND     | 50                 | ug/L  | 10/01/96         |
| 2,4-Dinitrophenol          | 51-28-5         | ND     | 50                 | ug/L  | 10/01/96         |
| 2-Methylphenol             | 95-48-7         | ND     | 10                 | ug/L  | 10/01/96         |
| 4-Methylphenol             | 106-44-5        | ND     | 10                 | ug/L  | 10/01/96         |
| 2-Nitrophenol              | 88-75-5         | ND     | 10                 | ug/L  | 10/01/96         |
| 4-Nitrophenol              | 100-02-7        | ND     | 50                 | ug/L  | 10/01/96         |
| Pentachlorophenol          | 87-86-5         | ND     | 50                 | ug/L  | 10/01/96         |
| Phenol                     | 108-95-2        | ND     | 10                 | ug/L  | 10/01/96         |
| 2,4,5-Trichlorophenol      | 95-95-4         | ND     | 10                 | ug/L  | 10/01/96         |
| 2,4,6-Trichlorophenol      | 88-06-2         | ND     | 10                 | ug/L  | 10/01/96         |

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

AEN (CALIFORNIA)  
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9609329

CLIENT PROJECT ID: 3018.95.21

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

## QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9609329  
AEN LAB NO: 1001-BLANK  
DATE EXTRACTED: 10/01/96  
DATE ANALYZED: 10/04/96  
INSTRUMENT: C  
MATRIX: WATER

## Method Blank

| Analyte | Result<br>(mg/L) | Reporting<br>Limit<br>(mg/L) |
|---------|------------------|------------------------------|
| Diesel  | ND               | 0.05                         |
| Oil     | ND               | 0.2                          |

## QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9609329  
DATE EXTRACTED: 10/01/96  
INSTRUMENT: C  
MATRIX: WATER

## Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery |
|---------------|------------|---------|------------------|
| 10/04/96      | LF-8       | 09      | 99               |
| QC Limits:    |            |         | 65-125           |

DATE EXTRACTED: 10/01/96  
DATE ANALYZED: 10/04/96  
SAMPLE SPIKED: 9608373-03  
INSTRUMENT: C

## Matrix Spike Recovery Summary

| Analyte | Spike Added (mg/L) | Average Percent Recovery | RPD | QC Limits | Percent Recovery | RPD |
|---------|--------------------|--------------------------|-----|-----------|------------------|-----|
| Diesel  | 4.00               | 91                       | <1  | 60-110    | 15               |     |

## QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9609329  
AEN LAB NO: 1001-BLANK  
DATE ANALYZED: 10/01/96  
INSTRUMENT: F  
MATRIX: WATER

Method Blank

|                 | Result<br>(mg/L) | Reporting<br>Limit<br>(mg/L) |
|-----------------|------------------|------------------------------|
| HCs as Gasoline | ND               | 0.05                         |

## QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9609329

INSTRUMENT: F

MATRIX: WATER

## Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id.. | Percent Recovery<br>Fluorobenzene |
|---------------|------------|----------|-----------------------------------|
| 10/01/96      | LF-8       | 09       | 120                               |
| QC Limits:    |            |          | 70-130                            |

DATE ANALYZED: 09/30/96

SAMPLE SPIKED: 9609392-04

INSTRUMENT: F

## Matrix Spike Recovery Summary

| Analyte                  | Spike Added (ug/L) | Average Percent Recovery | RPD | QC Limits<br>Percent Recovery | RPD |
|--------------------------|--------------------|--------------------------|-----|-------------------------------|-----|
| Hydrocarbons as Gasoline | 500                | 107                      | 6   | 66-117                        | 19  |

## QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9609329  
 AEN LAB NO: 0927-BLANK  
 DATE EXTRACTED: 09/27/96  
 DATE ANALYZED: 10/01/96  
 INSTRUMENT: 11  
 MATRIX: WATER

Method Blank

| Analyte                     | CAS #     | Result<br>(ug/L) | Reporting<br>Limit<br>(ug/L) |
|-----------------------------|-----------|------------------|------------------------------|
| Acenaphthene                | 83-32-9   | ND               | 10                           |
| Acenaphthylene              | 208-96-8  | ND               | 10                           |
| Anthracene                  | 120-12-7  | ND               | 10                           |
| Benzidine                   | 92-87-5   | ND               | 50                           |
| Benzoic Acid                | 65-85-0   | ND               | 50                           |
| Benzo(a)anthracene          | 56-55-3   | ND               | 10                           |
| Benzo(b)fluoranthene        | 205-99-2  | ND               | 10                           |
| Benzo(k)fluoranthene        | 207-08-9  | ND               | 10                           |
| Benzo(g,h,i)perylene        | 191-24-2  | ND               | 10                           |
| Benzo(a)pyrene              | 50-32-8   | ND               | 10                           |
| Benzyl Alcohol              | 100-51-6  | ND               | 20                           |
| Bis(2-chloroethoxy)methane  | 111-91-1  | ND               | 10                           |
| Bis(2-chloroethyl)ether     | 111-44-4  | ND               | 10                           |
| Bis(2-chloroisopropyl)ether | 108-60-1  | ND               | 10                           |
| Bis(2-ethylhexyl)phthalate  | 117-81-7  | ND               | 10                           |
| 4-Bromophenyl phenyl ether  | 101-55-3  | ND               | 10                           |
| Butylbenzyl phthalate       | 85-68-7   | ND               | 10                           |
| 4-Chloroaniline             | 106-47-8  | ND               | 20                           |
| 2-Chloronaphthalene         | 91-58-7   | ND               | 10                           |
| 4-Chlorophenyl phenylether  | 7005-72-3 | ND               | 10                           |
| Chrysene                    | 218-01-9  | ND               | 10                           |
| Dibenzo(a,h)anthracene      | 53-70-3   | ND               | 10                           |
| Dibenzofuran                | 132-64-9  | ND               | 10                           |
| Di-n-butylphthalate         | 84-74-2   | ND               | 10                           |
| 1,2-Dichlorobenzene         | 95-50-1   | ND               | 10                           |
| 1,3-Dichlorobenzene         | 541-73-1  | ND               | 10                           |
| 1,4-Dichlorobenzene         | 106-46-7  | ND               | 10                           |
| 3,3'-Dichlorobenzidine      | 91-94-1   | ND               | 20                           |
| Diethylphthalate            | 84-66-2   | ND               | 10                           |
| Dimethylphthalate           | 131-11-3  | ND               | 10                           |
| 2,4-Dinitrotoluene          | 121-14-2  | ND               | 10                           |
| 2,6-Dinitrotoluene          | 606-20-2  | ND               | 10                           |
| Di-n-octylphthalate         | 117-84-0  | ND               | 10                           |
| 1,2-Diphenylhydrazine       | 122-66-7  | ND               | 10                           |

## QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9609329  
 AEN LAB NO: 0927-BLANK  
 DATE EXTRACTED: 09/27/96  
 DATE ANALYZED: 10/01/96  
 INSTRUMENT: 11  
 MATRIX: WATER

Method Blank (Cont.)

| Analyte                    | CAS #    | Result<br>(ug/L) | Reporting<br>Limit<br>(ug/L) |
|----------------------------|----------|------------------|------------------------------|
| Fluoranthene               | 206-44-0 | ND               | 10                           |
| Fluorene                   | 86-73-7  | ND               | 10                           |
| Hexachlorobenzene          | 118-74-1 | ND               | 10                           |
| Hexachlorobutadiene        | 87-68-3  | ND               | 10                           |
| Hexachlorocyclopentadiene  | 77-47-4  | ND               | 10                           |
| Hexachloroethane           | 67-72-1  | ND               | 10                           |
| Indeno(1,2,3-cd)pyrene     | 193-39-5 | ND               | 10                           |
| Isophorone                 | 78-59-1  | ND               | 10                           |
| 2-Methylnaphthalene        | 91-57-6  | ND               | 10                           |
| Naphthalene                | 91-20-3  | ND               | 10                           |
| 2-Nitroaniline             | 88-74-4  | ND               | 50                           |
| 3-Nitroaniline             | 99-09-2  | ND               | 50                           |
| 4-Nitroaniline             | 100-01-6 | ND               | 50                           |
| Nitrobenzene               | 98-95-3  | ND               | 10                           |
| N-nitrosodimethylamine     | 62-75-9  | ND               | 10                           |
| N-nitrosodiphenylamine     | 86-30-6  | ND               | 10                           |
| N-nitroso-di-n-propylamine | 621-64-7 | ND               | 10                           |
| Phenanthrene               | 85-01-8  | ND               | 10                           |
| Pyrene                     | 129-00-0 | ND               | 10                           |
| 1,2,4-Trichlorobenzene     | 120-82-1 | ND               | 10                           |
| 4-Chloro-3-methylphenol    | 59-50-7  | ND               | 10                           |
| 2-Chlorophenol             | 95-57-8  | ND               | 10                           |
| 2,4-Dichlorophenol         | 120-83-2 | ND               | 10                           |
| 2,4-Dimethylphenol         | 105-67-9 | ND               | 10                           |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ND               | 50                           |
| 2,4-Dinitrophenol          | 51-28-5  | ND               | 50                           |
| 2-Methylphenol             | 95-48-7  | ND               | 10                           |
| 4-Methylphenol             | 106-44-5 | ND               | 10                           |
| 2-Nitrophenol              | 88-75-5  | ND               | 10                           |
| 4-Nitrophenol              | 100-02-7 | ND               | 50                           |
| Pentachlorophenol          | 87-86-5  | ND               | 50                           |
| Phenol                     | 108-95-2 | ND               | 10                           |
| 2,4,5-Trichlorophenol      | 95-95-4  | ND               | 10                           |
| 2,4,6-Trichlorophenol      | 88-06-2  | ND               | 10                           |

## QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9609329  
 DATES EXTRACTED: 09/27/96  
 INSTRUMENT: 11  
 MATRIX: WATER

## Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery |                       |                              |                   |                      |                           |
|---------------|------------|---------|------------------|-----------------------|------------------------------|-------------------|----------------------|---------------------------|
|               |            |         | 2-Fluoro-phenol  | Phenol-d <sub>5</sub> | Nitro-benzene-d <sub>5</sub> | 2-Fluoro-biphenyl | 2,4,6-Tribromophenol | Terphenyl-d <sub>14</sub> |
| 10/01/96      | LF-8       | 09      | 91               | 86                    | 80                           | 97                | 89                   | 87                        |
| QC Limits:    |            |         | 41-104           | 46-114                | 50-112                       | 41-111            | 59-125               | 37-111                    |

DATE EXTRACTED: 09/27/96  
 DATE ANALYZED: 10/01/96  
 SAMPLE SPIKED: LCS  
 INSTRUMENT: 11

## Laboratory Control Sample Recovery

| Analyte                   | Spike Added (ug/L) | QC Limits        |                  |
|---------------------------|--------------------|------------------|------------------|
|                           |                    | Percent Recovery | Percent Recovery |
| Phenol                    | 196                | 68               | 44-126           |
| 2-Chlorophenol            | 199                | 88               | 50-145           |
| 1,4-Dichlorobenzene       | 198                | 84               | 51-132           |
| N-Nitrosodi-n-propylamine | 183                | 74               | 52-151           |
| 1,2,4-Trichlorobenzene    | 220                | 86               | 51-128           |
| 4-Chloro-3-methylphenol   | 197                | 83               | 52-149           |
| Acenaphthene              | 186                | 90               | 58-139           |
| 4-Nitrophenol             | 197                | 55               | 30-152           |
| 2,4-Dinitrotoluene        | 254                | 82               | 60-128           |
| Pentachlorophenol         | 185                | 68               | 30-160           |
| Pyrene                    | 238                | 80               | 40-130           |

## QUALITY CONTROL DATA

AEN JOB NO: 9609329  
SAMPLE SPIKED: DI WATER  
DATE(S) ANALYZED: 09/30-10/06/96  
MATRIX: WATER

## Method Blank and Spike Recovery Summary

| Analyte      | Inst. / Method | Blank Result (mg/L) | Spike Added (mg/L) | MS Percent Recovery | RPD | QC Limits | Percent Recovery | RPD |
|--------------|----------------|---------------------|--------------------|---------------------|-----|-----------|------------------|-----|
| Ag, Silver   | ICP/200.7      | ND                  | 0.005              | 82                  | 5   | 75-125    | 16               |     |
| As, Arsenic  | 4000/206.2     | ND                  | 0.04               | 101                 | 4   | 69-136    | 13               |     |
| Ba, Barium   | ICP/200.7      | ND                  | 0.2                | 98                  | 2   | 75-125    | 16               |     |
| Cd, Cadmium  | ICP/200.7      | ND                  | 0.01               | 104                 | 7   | 75-125    | 16               |     |
| Cr, Chromium | ICP/200.7      | ND                  | 0.02               | 91                  | 6   | 75-125    | 16               |     |
| Cu, Copper   | ICP/200.7      | ND                  | 0.025              | 100                 | 2   | 75-125    | 16               |     |
| Hg, Mercury  | Hg/245.1       | ND                  | 2.0 ug/L           | 103                 | 1   | 89-121    | 10               |     |
| Ni, Nickel   | ICP/200.7      | ND                  | 0.05               | 96                  | 3   | 75-125    | 16               |     |
| Pb, Lead     | 4000/239.2     | ND                  | 0.2                | 86                  | <1  | 75-125    | 14               |     |
| Se, Selenium | 4000/270.2     | ND                  | 0.08               | 97                  | 2   | 75-115    | 13               |     |
| Zn, Zinc     | ICP/200.7      | ND                  | 0.05               | 101                 | 2   | 75-125    | 16               |     |

\*\*\*END OF REPORT\*\*\*

R1SB  
E3S2

9609329 102

## CHAIN OF CUSTODY / ANALYSES REQUEST FORM

| Project No.: 30189521   |         | Field Logbook No.:             |                | Date: 9/25/96                                       | Serial No.: No 17643       |            |
|---|---------|--------------------------------|----------------|---|----------------------------|------------|
| Project Name: Vacuo GM  |         | Project Location: OAKLAND, CA. |                |   |                            |            |
| Sampler (Signature): JC K   |         | ANALYSES                       |                | Samplers: JC K DRJ                                  |                            |            |
| SAMPLES   |         |                                |                |   |                            |            |
| SAMPLE NO.  | DATE    | TIME                           | LAB SAMPLE NO. | NO. OF CONTAINERS                                   | SAMPLE TYPE                |            |
| LF-7  | 9/25/96 | 8:50                           | 01A            | 1   | H <sub>2</sub> O X         |            |
| LF-6  |         | 10:15                          | 02A            | 1   | X                          |            |
| LF-17   |         | 11:50                          | 03A            | 1   | X                          |            |
| LF-9  |         | 12:20                          | 04A            | 1   | X                          |            |
| LF-11   |         | 13:10                          | 05A            | 1   | X                          |            |
| MW-1  |         | 13:05                          | 06A            | 1   | X                          |            |
| LF-11   |         |                                |                | 1   | X                          |            |
| LF-111  |         |                                | ) See pg. 3    | 1   | X                          |            |
| LF-8  |         |                                |                | 8   | X X X X X/ 9/26/96         |            |
|   |         |                                |                |   | To be analyzed by 10/10/96 |            |
|   |         |                                |                |   |                            |            |
|   |         |                                |                |   |                            |            |
|   |         |                                |                |   |                            |            |
|   |         |                                |                |   |                            |            |
|   |         |                                |                |   |                            |            |
|   |         |                                |                |   |                            |            |
|   |         |                                |                |   |                            |            |
|   |         |                                |                |   |                            |            |
|   |         |                                |                |   |                            |            |
|   |         |                                |                |   |                            |            |
|   |         |                                |                |   |                            |            |
| RELINQUISHED BY:<br>(Signature)   |         | DATE 9/25/96                   | TIME 15:25     | RECEIVED BY:<br>(Signature)                         | DATE 9/25/96               | TIME 15:25 |
| RELINQUISHED BY:<br>(Signature)   |         | DATE 9/25/96                   | TIME 16:55     | RECEIVED BY:<br>(Signature)                         | DATE 9/25/96               | TIME 16:55 |
| RELINQUISHED BY:<br>(Signature)   |         | DATE                           | TIME           | RECEIVED BY:<br>(Signature)                         | DATE 9/25/96               | TIME 16:55 |
| METHOD OF SHIPMENT:   |         | DATE                           | TIME           | LAB COMMENTS:                                       |                            |            |
| Sample Collector: LEVINE-FRICKE<br>1900 Powell Street, 12th Floor<br>Emeryville, California 94608<br>(510) 652-4500 |         |                                |                | Analytical Laboratory:<br>AEN<br>PLEASANT HILL, CA. |                            |            |

Shipping Copy (White)

Lab Copy (Green)

File Copy (Yellow)

Field Copy (Pink)

FORM NO. 86/OC/ARF

## **CHAIN OF CUSTODY / ANALYSES REQUEST FORM**

9609329 083

9609337 98

TITLE 22 METRIC DISCHARGED  
BASIN PLAN DETECTION  
FIELD FILTERED  
LAB TO PRESERVE

|                                 |   |                 |               |   |                        |                 |               |
|---------------------------------|---|-----------------|---------------|---|------------------------|-----------------|---------------|
| RELINQUISHED BY:<br>(Signature) | <i>Terry Lee</i>  | DATE<br>9-26-96 | TIME<br>11:22 | RECEIVED BY:<br>(Signature)                                       | <i>Sgt. M. Stahley</i> | DATE<br>9-26-96 | TIME<br>11:22 |
| RELINQUISHED BY:<br>(Signature) | <i>M. Johnson</i>   | DATE<br>9-26-96 | TIME<br>12:05 | RECEIVED BY:<br>(Signature)                                       | <i>Annie Ophelie</i>   | DATE<br>9-26-96 | TIME<br>12:05 |
| RELINQUISHED BY:<br>(Signature) |   | DATE            | TIME          | RECEIVED BY:<br>(Signature)                                       |                        | DATE            | TIME          |
| METHOD OF SHIPMENT:             |   | DATE            | TIME          | LAB COMMENTS:   |                        |                 |               |
| Sample Collector:               | LEVINE-FRICKE<br>1900 Powell Street, 12th Floor<br>Emeryville, California 94608<br>(510) 652-4500 |                 |               | Analytical Laboratory:<br><i>AEN</i><br><i>Pleasant Hill, CA.</i> |                        |                 |               |

**APPENDIX B**

**Water-Quality Sampling Forms**







## WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Date: 9/24/96

Project Name: VOLVO GM

Sample No.: LF-4

Sample Location: LF-4

 FB:

Samplers Name: JCR

 DUP:

Sampling Plan Prepared By: JCR

Sampling Method:

- Centrifugal Pump       Disposable Bailer  
 Submersible Pump       Teflon Bailer  
 Hand Bail       \_\_\_\_\_  
 Extraction Well Port       (Other)

Analyses Requested

Number and Types of Bottle used

~~TESTS~~ TITLE 22 METALS

Method of Shipment

AEN

(Lab Name)

 Courier \_\_\_\_\_ Hand Deliver:

Well Number: LF-4

Well Diameter:

Depth to Water: 5.60

 2" (0.16 Gallon/Feet)

1 Depth: 18.25

 4" (0.65 Gallon/Feet)

Height of Water Column: 12.65

 5" (1.02 Gallon/Feet)

Volume in Well: 2.02

 6" (1.47 Gallon/Feet)

18.25  
 5.60  
 12.65 .16  
 7590  
 1265  
 2.0240

12.65 .8 18.25  
 10.12  
 10120 8.13

80% DTW 8.13

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks    |
|------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|------------|
| 5:00 |                |                         |                   |                |         |             |                 | START      |
| 5:03 |                | 2                       | END               | 23.8           | 6.21    | 4390        |                 | MOD TURBID |
| 5:06 |                | 4                       |                   | 23.5           | 6.21    | 4130        |                 | TURBID     |
| 5:10 |                | 6                       |                   | 23.0           | 6.18    | 4020        |                 | TURBID     |
| 5:21 |                |                         |                   |                |         |             |                 | START      |
| 5:23 |                | 2                       |                   | 21.8           | 6.66    | 2610        |                 | CLEAR      |
| 5:26 |                | 4                       |                   | 21.6           | 6.64    | 2620        |                 | CLEAR      |
| 5:30 |                | 6                       |                   | 20.7           | 6.72    | 3040        |                 | CLEAR      |
| 7:35 | 12.45          |                         |                   |                |         |             |                 | SAMPLE     |

1 Depth:

Comments: \_\_\_\_\_  
(Recommended Method For Purging Well)

FIELD FILTERED



## **WATER-QUALITY SAMPLING INFORMATION**

Project No.: 3018.95.21

Project Name: VOLVO GM

Sample Location: Oakland

Samplers Name: DLS SK

Sampling Plan Prepared By: JCK

**Sampling Method:** \_\_\_\_\_

- |   |   |
|---|---|
| <input type="checkbox"/> Centrifugal Pump     | <input type="checkbox"/> Disposable Bailer        |
| <input type="checkbox"/> Submersible Pump     | <input checked="" type="checkbox"/> Teflon Bailer |
| <input checked="" type="checkbox"/> Hand Bail | <input type="checkbox"/> _____                    |
| <input type="checkbox"/> Extraction Well Port | (Other) _____                                     |

### **Analyses Requested**

## Title 22 metals

#### Number and Types of Bottles used

500ml Plastic

## **Method of Shipment**

AGEN

(Lab Name)

Courier \_\_\_\_\_

Hand Deliver:

Well Number: 6 F-6

Well Diameter:

Depth to Water: 6.47

2" (0.16 Gallon/Feet)

1 Depth: 20.00

4" (0.65 Gallon/Feet)

Height of Water Column: 13.58

5" (1.02 Gallon/Feet)

Volume in Well: 2.17  $\div$  2.5

6" (1.47 Gallon/Feet)

at Depth: \_\_\_\_\_

**Comments:**

(Recommended Method For Purging Well)

## FIELD FILTERED

## **WATER-QUALITY SAMPLING INFORMATION**

Project No.: 3018.95.21

Project Name: VOLVO GM

Sample Location: oakland

Samplers Name: DKT JK

Sampling Plan Prepared By: SUK

**Sampling Method:** \_\_\_\_\_

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Disposable Bailer        |
| <input type="checkbox"/> Submersible Pump            | <input checked="" type="checkbox"/> Teflon Bailer |
| <input type="checkbox"/> Hand Bail                   | <input type="checkbox"/> _____                    |
| <input type="checkbox"/> Extraction Well Port        | (Other) _____                                     |

Analyses Requested  
Tric Zmetals

Number and Types of Bottles used

### **Method of Shipment**

AEN

(Lab Name)

Courier \_\_\_\_\_

Hand Delivery

Hand Deliver:

Well Number: LF 5

Well Diameter:

Depth to Water: 4.98

**2" (0.16 Gallon/Feet)**

Depth: 24.50

4" (0.65 Gallon/Foot)

Height of Water Column: 16.52

70-10-00-000-000

Volume in Watts:  $7 \frac{1}{2} \times 3 = 22.5$

3 (1.02 Gallon/Feet)

**Jet Depth:**

#### *Comments.*

#### Comments:

## FIELD FILTERED







## **WATER-QUALITY SAMPLING INFORMATION**

Project No.: 3018.95.21

Project Name: VOLVO GM

Sample Location: Oakland

Samplers Name: DRT

Sampling Plan Prepared By: JCK

**Sampling Method:** \_\_\_\_\_

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Disposable Bailer        |
| <input type="checkbox"/> Submersible Pump            | <input checked="" type="checkbox"/> Teflon Bailer |
| <input type="checkbox"/> Hand Bail                   | <input type="checkbox"/> _____                    |
| <input type="checkbox"/> Extraction Well Port        | (Other) _____                                     |

**Analyses Requested**  
**Title 22 metals**

Number and Types of Bottles used

### **Method of Shipment**

AEN

(Lab Name)

Courier

Hand Deliver:

Well Number: L-F-15

Well Diameter: \_\_\_\_\_

Depth to Water: 3.80

2" (0.16 Gallon/Feet)

Oil Depth: 20.0

4" (0.65 Gallon/Feet)

#### Height of Water Column:

5" (1.02 Gallon/Foot)

Volume in Gallons 10.54

6" (1.43 Gallon/foot)

Volume in well: 7.5 ml

6 (1.47 Gallon/Feet)

Let Depth: \_\_\_\_\_

### **Comments.**

#### Contents.

## FIELD FILTERED





## **WATER-QUALITY SAMPLING INFORMATION**

Project No.: 3018.95.21

Project Name: Volvo GM

Sample Location: LF-15

Samplers Name: JCR

Sampling Plan Prepared By: JCR

**Sampling Method:** \_\_\_\_\_

- |   |   |
|---|---|
| <input type="checkbox"/> Centrifugal Pump     | <input type="checkbox"/> Disposable Bailer        |
| <input type="checkbox"/> Submersible Pump     | <input checked="" type="checkbox"/> Teflon Bailer |
| <input checked="" type="checkbox"/> Hand Bail | <input type="checkbox"/>                          |
| <input type="checkbox"/> Extraction Well Port | (Other) _____                                     |

### **Analyses Requested**

#### **Number and Types of Bottles used**

TRE22 METRES

### Method of Shipment

AFN

(Lab Name)

Courier \_\_\_\_\_

Hand Deliver:

Well Number: LF-15

### Well Diameter:

Depth to Water: 6.20

All Depth: 20.03

Height of Water Column: 13.83

Volume in Well: 2.27

- 2" (0.16 Gallon/Feet)
  - 4" (0.65 Gallon/Feet)
  - 5" (1.02 Gallon/Feet)
  - 6" (1.47 Gallon/Feet)

$$\begin{array}{r}
 20.03 \\
 6.20 \\
 \hline
 13.83 \\
 .16 \\
 \hline
 8898 \\
 1383 \\
 \hline
 2.2728
 \end{array}$$
  

$$\begin{array}{r}
 13.83 \\
 .8 \\
 \hline
 11064
 \end{array}
 \quad
 \begin{array}{r}
 20.03 \\
 11.06 \\
 \hline
 8.97
 \end{array}$$

Act Depth: \_\_\_\_\_

**Comments:** \_\_\_\_\_  
(Recommended Method For Purging Well)

## FIELD FILTERED



## **WATER-QUALITY SAMPLING INFORMATION**

Project No.: 3018.95.21

Project Name: VOLVO GM

Sample Location: Oakland

Samplers Name: D.R.T. Jek

Sampling Plan Prepared By: JCK

**Sampling Method:** \_\_\_\_\_

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Disposable Bailer        |
| <input type="checkbox"/> Submersible Pump            | <input checked="" type="checkbox"/> Teflon Bailer |
| <input type="checkbox"/> Hand Bail                   | <input type="checkbox"/>                          |
| <input type="checkbox"/> Extraction Well Port        | (Other) _____                                     |

Analyses Requested  
Title 22 metals

Number and Types of Bottles used  
1 500 ml PLG, STC

## **Method of Shipment**

AEN

(Lab Name)

Courier \_\_\_\_\_

Hand Deliver:

Well Number: LF-17

Well Diameter:

Depth to Water: 7.04

2" (0.16 Gallon/Feet)

II Depth: 20.20

 4" (0.65 Gallon/Feet)

Height of Water Column: 13.16

5" (1.02 Gallon/Feet)

Volume in Well: 750

6" (1.47 Gallon/Feet)

$$\begin{array}{r}
 28.26 \\
 -7.04 \\
 \hline
 13.22 \\
 \\ 
 \begin{array}{r}
 .65 \\
 \hline
 65
 \end{array} \quad .2 \\
 \\ 
 \begin{array}{r}
 804040 \\
 -7.04 \\
 \hline
 4.04
 \end{array} \\
 \\ 
 \begin{array}{r}
 7896 \\
 \hline
 85540
 \end{array} \quad 11.08 \\
 \\ 
 80\% DTW \quad 11.08
 \end{array}$$

Net Depth: \_\_\_\_\_

**Comments:** \_\_\_\_\_  
(Recommended Method For Purging Well)

## FIELD FILTERED







