

January 8, 1996

LF-3018.95-20

Ms. Madhulla Logan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94501

Subject: Quarterly Ground-Water Monitoring Report for the Period from July 1 - September 30, 1995, 5050 Coliseum Way and 750-50th Avenue, Oakland, California

Dear Ms. Logan:

This quarterly report is submitted by Levine•Fricke on behalf of Volvo GM Heavy Truck Corporation for the subject site. During this quarterly round, depth-to-water measurements were collected in all 22 monitoring wells and ground-water samples were collected from 21 wells.

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

Sincerely,



Kathleen A. Isaacson, R.G.
Principal Hydrogeologist

Enclosure

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

**Quarterly Ground-Water Monitoring Report for the
Period from July 1 to September 30, 1995
5050 Coliseum Way and 750-50th Avenue
Oakland, California
January 8, 1996
3018.95-20**

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

 **LEVINE • FRICKE**
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS



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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.



1/5/96
Date

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

1.0 INTRODUCTION

This report presents results of quarterly ground-water monitoring activities conducted during the period from July 1 through September 30, 1995, 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 ground-water elevation and ground-water quality data collected at the Site.

2.0 WATER-LEVEL MEASUREMENTS AND GROUND-WATER 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 all wells at the Site on September 5, 1995. A historical summary of depth-to-water measurements and ground-water elevations for the Site is presented in Table 1.

Ground-water elevations calculated from depth-to-water measurements collected in September 1995 were higher than historical ground-water elevations for the Site. Generally, ground-water elevation decreased relative to June 1995 and ranged from 0.05 foot in well LF-12 to 1.65 feet in well MW-1.

Ground-water elevation contours for September 5, 1995 are presented in Figure 2. Ground-water elevation data indicate that the ground-water flow direction was generally toward the west and northwest, which is consistent with historical ground-water data. Ground-water flow data indicate a lateral hydraulic gradient that ranged from approximately 0.0003 foot per foot (ft/ft; as calculated between wells LF-1 and LF-7) to 0.0016 ft/ft (as calculated between wells LF-1 and LF-5).

Approximately 0.10 foot of free product was measured in well LF-13 using a product-thickness bailer (see Table 1, Footnote 2).

3.0 GROUND-WATER QUALITY

Ground-water samples were collected from 21 monitoring wells (LF-1 through LF-12, LF-14 through LF-17, LF-F1, and MW-1 through MW-4) on September 5, 6, 7, and 8, 1995. Well LF-13 contained free product, and therefore was not sampled.

Ground-water samples collected from all wells were submitted to the laboratory for metals analysis using EPA Method 200 series. Samples collected from wells LF-3,

LF-8, and LF-14 were also submitted for analysis of total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 3550, and as diesel (TPHd) and oil (TPHo) by EPA Method 3510, and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020. A ground-water sample collected from well LF-8 was also analyzed for semivolatile organic compounds (SVOCs) by EPA Method 8270.

Analytical results for ground-water samples collected during the recent round of sampling were generally consistent with results reported previously for the Site. Analytical results for metals analysis are presented in Table 2 and Figure 3. Analytical results for TPHg and BTEX are presented on Table 3, and results for TPHd and TPHo are presented on Table 4. Laboratory certificates are presented in Appendix A.

3.1 Sampling Procedures

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

Ground-water samples were collected using the same Teflon bailer used to purge the well. Ground-water samples for metals analysis were filtered in the field and preserved with nitric acid. Samples were placed in an ice-chilled cooler immediately after collection for transportation to the analytical laboratory.

Samples were submitted to American Environmental Network, Inc. (formerly Quanteq Laboratories) of Pleasant Hill, California, a state-certified laboratory. The pH values for ground-water samples collected from each monitoring well were measured and recorded in the field during sampling activities.

For quality assurance/quality control measures, a duplicate sample was collected for well LF-2 (LF-122) and a bailer blank sample was collected from well LF-15 (LF-15-BB). Both samples were submitted for metals analysis.

3.2 Ground-Water Quality Results

3.2.1 Metals

Analytical results for Title 22 metals in ground-water samples collected during the recent round of sampling were generally consistent with results reported previously for those wells.

Chromium was detected in well LF-3 and LF-6 at a concentration of 0.004 parts per million (ppm) in each, in LF-5 at a concentration of 0.006 ppm, and in MW-1 at a concentration of 0.002 ppm. Silver, barium, beryllium, molybdenum, antimony,

selenium, and vanadium were generally reported below detection limits, or at concentrations below 0.2 ppm. The maximum concentration of thallium was detected in LF-15 at 0.9 ppm.

Zinc was detected in all wells except for LF-17, at concentrations ranging from 0.001 ppm in well LF-7 to 37,000 ppm in well LF-11. The highest concentration of lead (0.67 ppm) was detected in the sample from well LF-1. Downgradient and crossgradient from LF-1, lead was below detection limits in wells MW-3 and LF-5, and at a concentration of 0.01 ppm in well LF-12.

The highest concentration of cadmium (120 ppm) was detected in the sample collected from LF-11 and the highest concentration of copper (18 ppm) was detected in the sample collected from well LF-16. The highest concentrations of cobalt (14 ppm) and nickel (37 ppm) were detected in the sample collected from LF-15. Of the downgradient wells that were sampled, well LF-12 contained the highest concentrations of those metals (cadmium, 3.2 ppm; cobalt, 2.2 ppm; copper, 1.3 ppm; nickel, 6.4 ppm).

Arsenic was detected in samples collected from 10 of the wells, with the highest concentration of 3.0 ppm reported for well LF-3. Arsenic was not detected above laboratory detection limits in downgradient wells LF-5 and LF-12, or crossgradient well MW-3.

3.2.2 Petroleum Hydrocarbons

Samples collected from wells LF-3, LF-8, and LF-14 were analyzed for TPHg, BTEX, TPHd, and TPHo (Tables 3 and 4). TPHg was not detected in the sample collected from well LF-3, but was reported at concentrations of 0.4 ppm and 1.4 ppm in wells LF-8 and LF-14, respectively.

BTEX were not detected in well LF-3, and were reported at concentrations near or below detection limits in well LF-14. BTEX were detected in well LF-8 at concentrations of 0.003 ppm or less. TPHd was detected in well LF-3 at 0.62 ppm and in well LF-8 at 4.7 ppm. No TPHd was detected in well LF-14 this quarter (<0.05). TPHo was only detected in samples from wells LF-3 (0.4 ppm) and LF-8 (0.3 ppm).

3.2.3 Volatile Organic Compounds

No samples were analyzed for VOCs this quarter.

3.2.4 Semivolatile Organic Compounds

Results of SVOC analysis for the sample collected from well LF-8 were similar to those previously reported. Compounds detected included acenaphthene (0.690 ppm), acenaphthalene (0.015 ppm), anthracene (0.041 ppm), dibenzofuran (0.200 ppm), fluoranthene (0.032 ppm), fluorene (0.170 ppm), naphthalene (0.013 ppm), and pyrene (0.019 ppm).

3.2.5 Measurements of pH

Measurements of ground-water pH were generally consistent with values previously reported for the Site (Figure 3). Recent monitoring indicates that pH values for shallow ground water beneath the Site are variable. The lowest pH (3.76) was measured in the sample from well LF-11. A pH value above 6.5 was measured for samples from 6 of the 21 wells sampled.

3.2.6 Quality Assurance/Quality Control

Analytical results for the duplicate sample collected from well LF-2 (LF-122) generally showed similar metals concentrations when compared to the primary sample collected from that well (LF-2).

A bailer blank of distilled water was collected before well LF-15 was sampled, and was submitted to the laboratory for metals analysis (sample LF-15-BB). Antimony (0.005 ppm) and zinc (0.02 ppm) were detected in the bailer blank sample.

Zinc has historically been detected in the bailer blank samples. However, the concentration of zinc detected in the sample from LF-15 (570 ppm) was much higher than the trace concentration of zinc (0.02 ppm) detected in the bailer blank.

Although a trace concentration of antimony was detected on the bailer blank for well LF-15, antimony was not reported for the sample collected from LF-15. This is likely because of the raised detection limit for antimony (0.02 ppm) reported by the laboratory for sample LF-15.

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

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (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 | | |
| 05-Sep-95 | 2.78 | | | 4.78 | | |
| LF-2 | 9.84 | 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 | | |
| 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 |

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

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

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

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| | | 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 |
| LF-6 | 11.59 | 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 |
| | | 05-Sep-95 | 6.23 | | | 5.36 |
| 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 |
| 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 |

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

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| | | 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 |
| LF-9 | 11.70 | 02-Nov-93 | 6.76 | | | 4.94 |
| | | 08-Dec-93 | 6.91 | | | 4.79 |
| | | 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 |
| LF-10 | 9.43 | 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 |
| LF-11 | 9.07 | 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 |
| LF-12 | 8.70 | 02-Nov-93 | 7.87 | | | 0.83 |
| | | 08-Dec-93 | 7.90 | | | 0.80 |
| | | 28-Jan-94 | 7.46 | | | 1.24 |
| | | 15-Feb-94 | 7.66 | | | 1.04 |
| | | 21-Sep-94 | 7.80 | | | 0.90 |
| | | 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 |

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

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| 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 | 3.8 | 0.10 | 5.94 (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 |
| 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 |
| 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 |
| 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 |

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

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| 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 |
| 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 |
| | | 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 | | |
| MW-2 | 8.86 | 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 | | |

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

| Well Number | Top of PVC Casing Elevation (feet msl) | Date Measured | Depth to Water (feet msl) | Depth to Product (feet msl) | Product Thickness (ft) | Ground-Water Elevation (feet msl) |
|-------------|---|---------------|------------------------------|--------------------------------|---------------------------|--------------------------------------|
| | | 07-Jun-95 | 3.12 | | | 5.74 |
| | | 05-Sep-95 | 3.90 | | | 4.96 |
| 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 |
| MW-4 | 10.75 | 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 |

Data entered by PCA 14-Nov-95. Data proofed by JXM

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) Ground-water elevation for well LF-13 is corrected for the presence of free product as indicated below. Product thickness measurement is approximate due to the viscous nature of the product. Ground-water elevation corrected for the presence of free product using the following equation: $G = W + [(PT * D) - DW]$ where G is the ground-water elevation, W is the well elevation, PT is the

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

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

using the following equation: $G = W + [(PT \cdot D) - DW]$ where G is the ground-water 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.

Table 2
METALS DETECTED IN GROUND-WATER 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-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-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 | 0.04 | 0.01 | <0.01 | <0.01 | <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 | <0.002 | <0.0002 | 0.091 | 0.006 | <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 | <0.002 | <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 | <0.002 | <0.0002 | 0.11 | 0.008 | <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 |
| 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 | 0.003 | <0.0002 | 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 |

Table 2
METALS DETECTED IN GROUND-WATER 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 | 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-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-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 | <0.01 | <0.0003 | <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 | <0.01 | <0.0003 | <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 | 0.004 | <0.0002 | <0.002 | 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 | <0.002 | 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 | <0.002 | 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 | <0.002 | 4.8 | <0.01 | <0.004 | <0.004 | 0.04 | <0.001 | 38 |
| 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 | <0.01 | 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 | <0.01 | 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 | <0.01 | 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 | <0.01 | 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 | <0.01 | 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 | <0.01 | 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 | <0.002 | 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 | <0.002 | 2.6 | <0.005 | <0.004 | <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 | <0.002 | 2.8 | <0.005 | <0.004 | <0.004 | 0.07 | <0.001 | 10 |
| 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 | <0.01 | <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 | 0.053 |
| 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 |

Table 2
METALS DETECTED IN GROUND-WATER 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-8 | 27-Oct-93 | <0.005 | 2.6 | 0.16 | <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 | 0.022 |
| 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 | <0.002 | 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 | <0.002 | 0.004 | <0.002 | <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 | <0.002 | 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 | <0.002 | <0.004 | <0.2 | <0.01 | 0.003 | 0.02 |
| 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 | <0.004 | <0.01 | 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-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 | <0.005 | <0.05 | <0.002 | 0.005 | 0.018 | <0.01 | <0.01 | <0.0002 | <0.01 | 0.12 | <0.04 | <0.02 | <0.01 | <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 | <0.002 | 0.083 | <0.01 | <0.005 | <0.01 | <0.02 | 0.006 | 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 | <0.002 | 0.13 | <0.01 | 0.004 | <0.04 | 0.02 | 0.004 | 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 | <0.002 | 0.083 | <0.01 | <0.004 | <0.01 | <0.01 | 0.005 | 0.29 |
| 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-111 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 | <2 | <0.02 | <5 | <0.5 | 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-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-13 | 6-Dec-93 | <0.005 | 3.3 | 0.24 | <0.002 | <0.005 | 0.007 | <0.01 | <0.01 | <0.0003 | 0.04 | 0.03 | <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 |

Table 2
METALS DETECTED IN GROUND-WATER 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-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-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 | <0.05 | 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 | 620 |
| 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-16 | 7-Dec-93 | <0.05 | <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-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 | <0.002 | <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-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 | <0.005 | 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 |
| 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-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 | <0.01 | <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 | <0.04 | <0.5 | <0.05 | 2200 |

Table 2
METALS DETECTED IN GROUND-WATER 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-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-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 | <0.003 | <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-Jun-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-4 | 5-Nov-92 | <0.002 | 0.007 | 0.017 | <0.001 | <0.005 | <0.005 | <0.01 | <0.005 | 0.0027 | <0.01 | 0.012 | <0.005 | <0.02 | <0.004 | <0.1 | <0.005 | <0.005 |
| 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 | <0.01 | <0.0003 | <0.01 | 0.02 | <0.04 | <0.02 | <0.004 | <0.1 | 0.01 | 0.03 |
| 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 |
| 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 |

Data entered by RCM 28-Jul-95. Data proofed by JXM. QA/QC by JXM.

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.

FB/BB - Field Blank

Table 3
Gasoline Hydrocarbons and BTEX Detected in Ground-Water 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-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-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 | 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 | 0.0065 | 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-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 |
| 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 RCM 28-Jul-95. Data proofed by JM 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 Ground-Water 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-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-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-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 |
| 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 RCM 28-Jul-95. Data proofed by JXM. QA/QC by SXS.

NOTES

Analyses performed by American Environmental Network, Pleasant Hill, CA

BB - Field Blank

NA - not analyzed

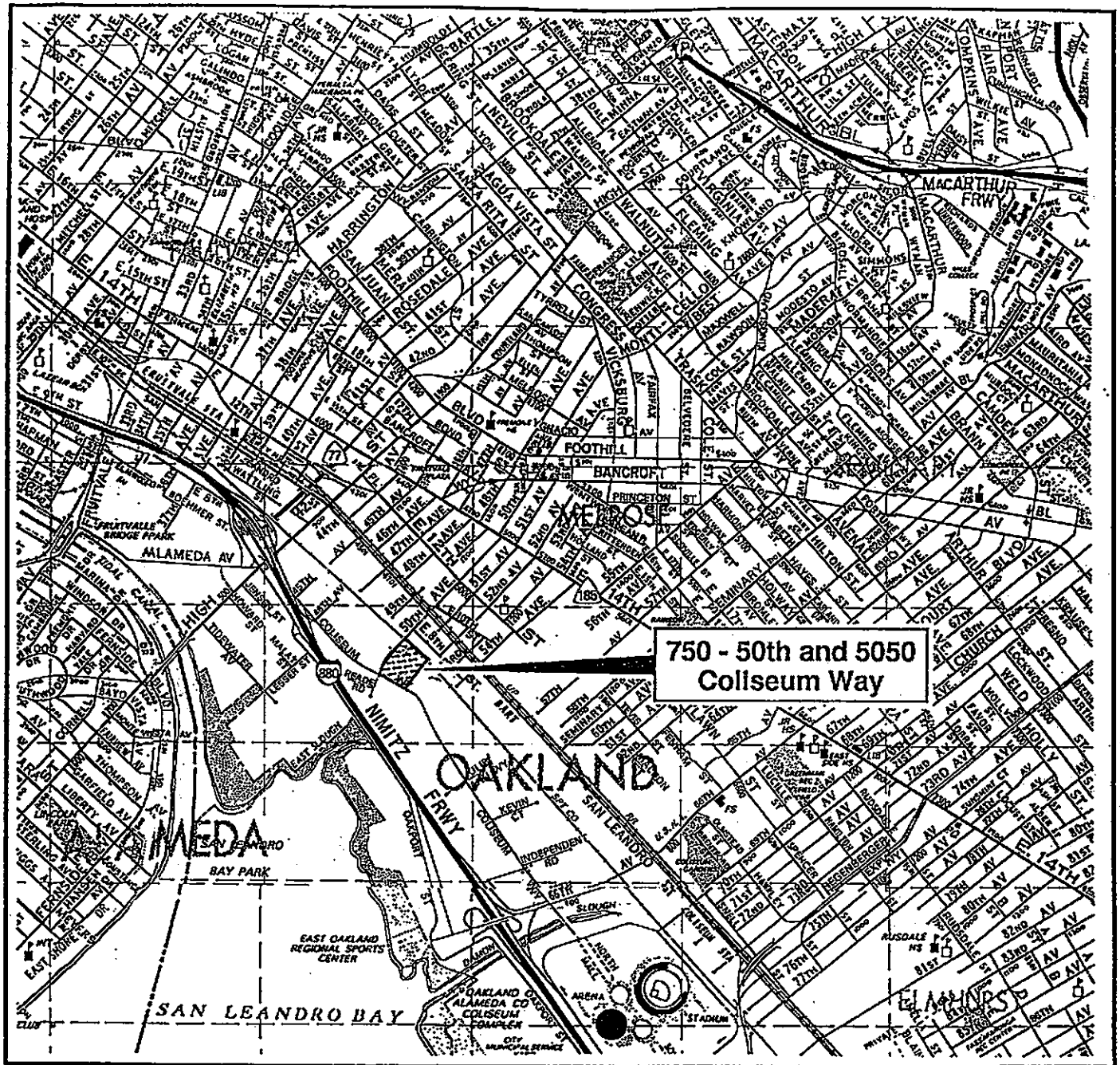
TPHd - Total petroleum hydrocarbons as diesel (EPA Method 3510)

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

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

Hydrocarbons - Total hydrocarbons (Standard Method 5520f)

(*) - Free product measured in February 1994.



SOURCE: Thomas Bros. map
Alameda and Contra Costa
1990

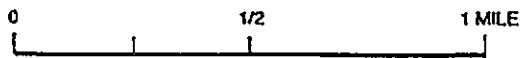


Figure 1 : SITE LOCATION MAP

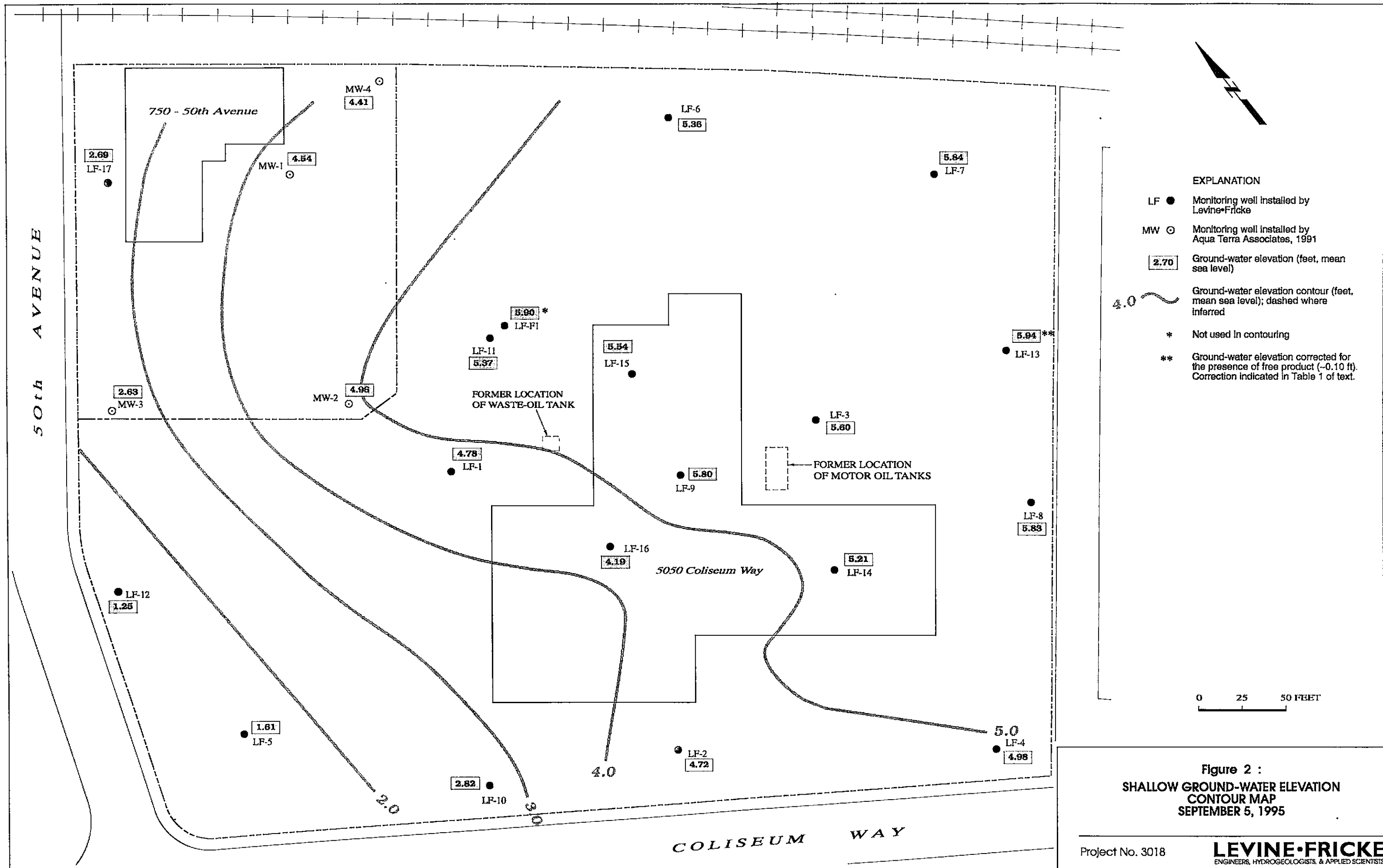
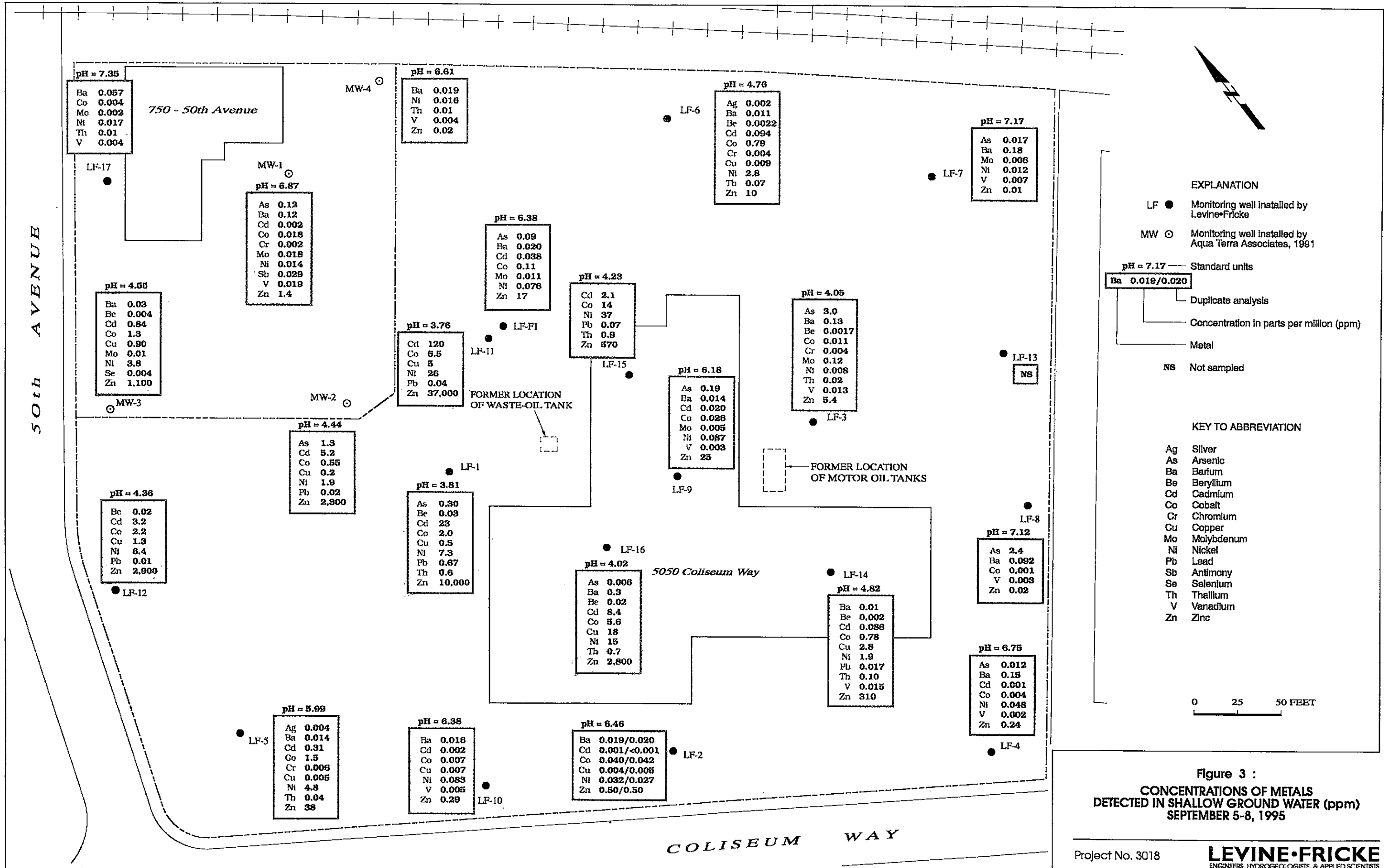


Figure 2 :
 SHALLOW GROUND-WATER ELEVATION
 CONTOUR MAP
 SEPTEMBER 5, 1995



APPENDIX A
LABORATORY CERTIFICATES

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

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

REPORT DATE: 10/03/95

DATE(S) SAMPLED: 09/06/95

DATE RECEIVED: 09/07/95

AEN WORK ORDER: 9509076

ATTN: JOHN KEELER
CLIENT PROJ. ID: 3018.95.20
CLIENT PROJ. NAME: VOLVO/GM
C.O.C. NUMBER: 013749

PROJECT SUMMARY:

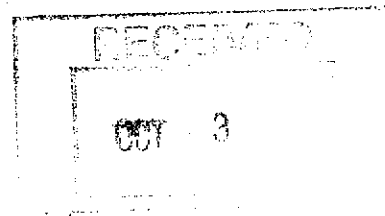
On September 7, 1995, this laboratory received 5 water sample(s).

Client requested sample(s) be analyzed for inorganic 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-17
 AEN LAB NO: 9509076-01
 AEN WORK ORDER: 9509076
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/06/95
 DATE RECEIVED: 09/07/95
 REPORT DATE: 10/03/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE- ANALYZED |
|---------------------------|-------------------------|---------|--------------------|-----------|-------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver EPA 200.7 | ND | 0.001 | mg/L | 09/20/95 |
| As | Arsenic EPA 206.2 | ND | 0.002 | mg/L | 09/30/95 |
| Ba | Barium EPA 200.7 | 0.057 * | 0.002 | mg/L | 09/20/95 |
| Be | Beryllium EPA 200.7 | ND | 0.0005 | mg/L | 09/20/95 |
| Cd | Cadmium EPA 200.7 | ND | 0.001 | mg/L | 09/20/95 |
| Co | Cobalt EPA 200.7 | 0.004 * | 0.001 | mg/L | 09/20/95 |
| Cr | Chromium EPA 200.7 | ND | 0.002 | mg/L | 09/20/95 |
| Cu | Copper EPA 200.7 | ND | 0.002 | mg/L | 09/20/95 |
| Hg | Mercury EPA 245.1 | ND | 0.0002 | mg/L | 09/15/95 |
| Mo | Molybdenum EPA 200.7 | 0.002 * | 0.002 | mg/L | 09/20/95 |
| Ni | Nickel EPA 200.7 | 0.017 * | 0.002 | mg/L | 09/20/95 |
| Pb | Lead EPA 239.2 | ND | 0.002 | mg/L | 10/01/95 |
| Sb | Antimony EPA 200.7 | ND | 0.004 | mg/L | 09/20/95 |
| Se | Selenium EPA 270.2 | ND | 0.004 | mg/L | 09/30/95 |
| Tl | Thallium EPA 200.7 | 0.01 * | 0.01 | mg/L | 09/20/95 |
| V | Vanadium EPA 200.7 | 0.004 * | 0.001 | mg/L | 09/20/95 |
| Zn | Zinc EPA 200.7 | ND | 0.01 | mg/L | 09/20/95 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE - FRICKE

SAMPLE ID: MW-4
 AEN LAB NO: 9509076-02
 AEN WORK ORDER: 9509076
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/06/95
 DATE RECEIVED: 09/07/95
 REPORT DATE: 10/03/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.001 | mg/L | 09/20/95 |
| As Arsenic | EPA 206.2 | ND | 0.002 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | 0.019 * | 0.002 | mg/L | 09/20/95 |
| Be Beryllium | EPA 200.7 | ND | 0.0005 | mg/L | 09/20/95 |
| Cd Cadmium | EPA 200.7 | ND | 0.001 | mg/L | 09/20/95 |
| Co Cobalt | EPA 200.7 | ND | 0.001 | mg/L | 09/20/95 |
| Cr Chromium | EPA 200.7 | ND | 0.002 | mg/L | 09/20/95 |
| Cu Copper | EPA 200.7 | ND | 0.002 | mg/L | 09/20/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/15/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.002 | mg/L | 09/20/95 |
| Ni Nickel | EPA 200.7 | 0.016 * | 0.002 | mg/L | 09/20/95 |
| Pb Lead | EPA 239.2 | ND | 0.002 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.004 | mg/L | 09/20/95 |
| Se Selenium | EPA 270.2 | ND | 0.004 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | 0.01 * | 0.01 | mg/L | 09/20/95 |
| V Vanadium | EPA 200.7 | 0.004 * | 0.001 | mg/L | 09/20/95 |
| Zn Zinc | EPA 200.7 | 0.02 * | 0.01 | mg/L | 09/20/95 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-12
 AEN LAB NO: 9509076-03
 AEN WORK ORDER: 9509076
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/06/95
 DATE RECEIVED: 09/07/95
 REPORT DATE: 10/03/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/17/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/13/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver | EPA 200.7 | ND | 0.05 mg/L | 09/15/95 |
| As | Arsenic | EPA 206.2 | ND | 0.005 mg/L | 09/30/95 |
| Ba | Barium | EPA 200.7 | ND | 0.1 mg/L | 09/15/95 |
| Be | Beryllium | EPA 200.7 | 0.02 * | 0.02 mg/L | 09/15/95 |
| Cd | Cadmium | EPA 200.7 | 3.2 * | 0.05 mg/L | 09/15/95 |
| Co | Cobalt | EPA 200.7 | 2.2 * | 0.05 mg/L | 09/15/95 |
| Cr | Chromium | EPA 200.7 | ND | 0.1 mg/L | 09/15/95 |
| Cu | Copper | EPA 200.7 | 1.3 * | 0.1 mg/L | 09/15/95 |
| Hg | Mercury | EPA 245.1 | ND | 0.0002 mg/L | 09/15/95 |
| Mo | Molybdenum | EPA 200.7 | ND | 0.1 mg/L | 09/15/95 |
| Ni | Nickel | EPA 200.7 | 6.4 * | 0.1 mg/L | 09/15/95 |
| Pb | Lead | EPA 239.2 | 0.01 * | 0.01 mg/L | 10/01/95 |
| Sb | Antimony | EPA 200.7 | ND | 0.2 mg/L | 09/15/95 |
| Se | Selenium | EPA 270.2 | ND | 0.01 mg/L | 09/30/95 |
| Tl | Thallium | EPA 200.7 | ND | 0.5 mg/L | 09/15/95 |
| V | Vanadium | EPA 200.7 | ND | 0.05 mg/L | 09/15/95 |
| Zn | Zinc | EPA 200.7 | 2,900 * | 1 mg/L | 09/15/95 |

Reporting limits elevated due to matrix interference.

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE - FRICKE

SAMPLE ID: LF-6
 AEN LAB NO: 9509076-04
 AEN WORK ORDER: 9509076
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/06/95
 DATE RECEIVED: 09/07/95
 REPORT DATE: 10/03/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|----------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | 0.002 * | 0.001 | mg/L | 09/20/95 |
| As Arsenic | EPA 206.2 | ND | 0.002 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | 0.011 * | 0.002 | mg/L | 09/20/95 |
| Be Beryllium | EPA 200.7 | 0.0022 * | 0.0005 | mg/L | 09/20/95 |
| Cd Cadmium | EPA 200.7 | 0.094 * | 0.001 | mg/L | 09/20/95 |
| Co Cobalt | EPA 200.7 | 0.79 * | 0.001 | mg/L | 09/20/95 |
| Cr Chromium | EPA 200.7 | 0.004 * | 0.002 | mg/L | 09/20/95 |
| Cu Copper | EPA 200.7 | 0.009 * | 0.002 | mg/L | 09/20/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/15/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.002 | mg/L | 09/20/95 |
| Ni Nickel | EPA 200.7 | 2.8 * | 0.002 | mg/L | 09/20/95 |
| Pb Lead | EPA 239.2 | ND | 0.005 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.004 | mg/L | 09/20/95 |
| Se Selenium | EPA 270.2 | ND | 0.004 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | 0.07 * | 0.01 | mg/L | 09/20/95 |
| V Vanadium | EPA 200.7 | ND | 0.001 | mg/L | 09/20/95 |
| Zn Zinc | EPA 200.7 | 10 * | 0.01 | mg/L | 09/20/95 |

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-7
 AEN LAB NO: 9509076-05
 AEN WORK ORDER: 9509076
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/06/95
 DATE RECEIVED: 09/07/95
 REPORT DATE: 10/03/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver | EPA 200.7 | ND | 0.001 mg/L | 09/19/95 |
| As | Arsenic | EPA 206.2 | 0.017 * | 0.002 mg/L | 09/30/95 |
| Ba | Barium | EPA 200.7 | 0.18 * | 0.002 mg/L | 09/19/95 |
| Be | Beryllium | EPA 200.7 | ND | 0.0005 mg/L | 09/19/95 |
| Cd | Cadmium | EPA 200.7 | ND | 0.001 mg/L | 09/19/95 |
| Co | Cobalt | EPA 200.7 | ND | 0.001 mg/L | 09/19/95 |
| Cr | Chromium | EPA 200.7 | ND | 0.002 mg/L | 09/19/95 |
| Cu | Copper | EPA 200.7 | ND | 0.002 mg/L | 09/19/95 |
| Hg | Mercury | EPA 245.1 | ND | 0.0002 mg/L | 09/15/95 |
| Mo | Molybdenum | EPA 200.7 | 0.006 * | 0.002 mg/L | 09/19/95 |
| Ni | Nickel | EPA 200.7 | 0.012 * | 0.002 mg/L | 09/19/95 |
| Pb | Lead | EPA 239.2 | ND | 0.005 mg/L | 10/01/95 |
| Sb | Antimony | EPA 200.7 | ND | 0.004 mg/L | 09/19/95 |
| Se | Selenium | EPA 270.2 | ND | 0.004 mg/L | 09/30/95 |
| Tl | Thallium | EPA 200.7 | ND | 0.01 mg/L | 09/19/95 |
| V | Vanadium | EPA 200.7 | 0.007 * | 0.001 mg/L | 09/19/95 |
| Zn | Zinc | EPA 200.7 | 0.01 * | 0.01 mg/L | 09/19/95 |

Reporting limit elevated for lead 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: 9509076
CLIENT PROJECT ID: 3018.95.20

Quality Control and Project Summary

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

Definitions

Laboratory Control Sample (LCS)/Method Spikes(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 analyses.

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 behaviour, 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 instrument performance.

D: Surrogates diluted out.

!: Indicates result outside of established laboratory QC limits.

WORK ORDER: 9509076

PAGE QR-2

QUALITY CONTROL REPORT

BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: Arsenic
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: AS_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW BLANK
 INSTR RUN: 4000\950930111000
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 1
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Arsenic by EPA 206.2 | ND | 0.002 | | | | | | |

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW BLNK
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 1
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | ND | 0.004 | | | | | | |

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: GFW BLNK
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 1
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | ND | 0.002 | | | | | | |

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGW BLNK
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 1
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | ND | 0.0002 | | | | | | |

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_S
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGS BLNK
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 12
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | ND | 0.06 | | | | | | |

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/15/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/13/95
 BLANK:
 TUNE:

SAMPLE ID: IFW BLNK 0
 INSTR RUN: ICP\950915173800
 DILUTION: 5
 BATCH ID: IFW091395-0
 STANDARD:

SEQ: 1
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | ND | 0.005 | | | | | | |
| Ba Barium | ND | 0.01 | | | | | | |
| Be Beryllium | ND | 0.002 | | | | | | |
| Cd Cadmium | ND | 0.005 | | | | | | |
| Co Cobalt | ND | 0.005 | | | | | | |
| Cr Chromium | ND | 0.01 | | | | | | |
| Cu Copper | ND | 0.01 | | | | | | |
| Mo Molybdenum | ND | 0.01 | | | | | | |
| Ni Nickel | ND | 0.01 | | | | | | |
| Sb Antimony | ND | 0.02 | | | | | | |
| Tl Thallium | ND | 0.05 | | | | | | |
| V Vanadium | ND | 0.005 | | | | | | |
| Zn Zinc | ND | 0.01 | | | | | | |

WORK ORDER: 9509076

PAGE QR-3

QUALITY CONTROL REPORT

BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: IFW BLNK A
 INSTR RUN: ICPT9509I9102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 1
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|--------------------|----------------|-----------------|----------------|------|---------|------------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | ND | 0.001 | | | | | | |
| Ba Barium | ND | 0.002 | | | | | | |
| Be Beryllium | ND | 0.0005 | | | | | | |
| Cd Cadmium | ND | 0.001 | | | | | | |
| Co Cobalt | ND | 0.001 | | | | | | |
| Cr Chromium | ND | 0.002 | | | | | | |
| Cu Copper | ND | 0.002 | | | | | | |
| Mo Molybdenum | ND | 0.002 | | | | | | |
| Ni Nickel | ND | 0.002 | | | | | | |
| Sb Antimony | ND | 0.004 | | | | | | |
| Tl Thallium | ND | 0.01 | | | | | | |
| V Vanadium | ND | 0.001 | | | | | | |
| Zn Zinc | ND | 0.01 | | | | | | |

WORK ORDER: 9509076

PAGE QR-4

QUALITY CONTROL REPORT

SPIKE SAMPLES

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Arsenic
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: AS_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW STD 1
 INSTR RUN: 4000\950930111000
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 2
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Arsenic by EPA 206.2 | 0.0316 | 0.002 | 0.0400 | 79.0 | 69 | 136 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Arsenic
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: AS_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW STD 2
 INSTR RUN: 4000\950930111000
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 3
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Arsenic by EPA 206.2 | 0.0334 | 0.002 | 0.0400 | 83.5 | 69 | 136 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Arsenic
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: AS_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS19098-02A
 INSTR RUN: 4000\950930111000
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 11
 REF SEQ: 10

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Arsenic by EPA 206.2 | 0.0433 | 0.002 | 0.0400 | 108 | 41 | 167 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Arsenic
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: AS_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS29098-02A
 INSTR RUN: 4000\950930111000
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 12
 REF SEQ: 10

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Arsenic by EPA 206.2 | 0.0426 | 0.002 | 0.0400 | 107 | 41 | 167 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Arsenic
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: AS_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS19127-12A
 INSTR RUN: 4000\950930111000
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 16
 REF SEQ: 15

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Arsenic by EPA 206.2 | 0.0378 | 0.002 | 0.0400 | 94.5 | 41 | 167 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Arsenic
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: AS_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS29127-12A
 INSTR RUN: 4000\950930111000
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 17
 REF SEQ: 15

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Arsenic by EPA 206.2 | 0.0385 | 0.002 | 0.0400 | 96.3 | 41 | 167 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW MS 1
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 2
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0617 | 0.004 | 0.0800 | 77.1 | 75 | 115 | | |

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QUALITY CONTROL REPORT

SPIKE SAMPLES

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW MS 2
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 3
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0636 | 0.004 | 0.0800 | 79.5 | 75 | 115 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS19059-03A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 6
 REF SEQ: 5

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0262 | 0.004 | 0.0800 | 32.8 | 0 | 173 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS29059-03A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 7
 REF SEQ: 5

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0314 | 0.004 | 0.0800 | 39.3 | 0 | 173 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS19098-02A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 11
 REF SEQ: 10

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | ND | 0.004 | 0.0800 | 0 | 0 | 173 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS29098-02A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 12
 REF SEQ: 10

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | ND | 0.004 | 0.0800 | 0 | 0 | 173 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS19127-12A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 16
 REF SEQ: 15

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0597 | 0.004 | 0.0800 | 74.6 | 0 | 173 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS29127-12A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 17
 REF SEQ: 15

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0672 | 0.004 | 0.0800 | 84.0 | 0 | 173 | | |

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QUALITY CONTROL REPORT

SPIKE SAMPLES

| | | | | | | | |
|---|---------|--|-------------|--|-----------------|------------------------|---------------|
| SAMPLE TYPE: Spike-Method/Media blank ANALYSIS: Lead INSTRUMENT: TJA 4000, GFAA ANALYZED: 10/01/95 | | TEST CODE: PB_WG UNITS: mg/L PREPARED: 09/14/95 BLANK: TUNE: | | SAMPLE ID: GFW MS 1 INSTR RUN: 4000\951001143700 DILUTION: 1.000000 BATCH ID: GFW091495-T STANDARD: | | SEQ: 2 REF SEQ: 1 | |
| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | RPD (%) | RPD LIMIT (%) |
| Lead in water by GFAA | 0.0183 | 0.002 | 0.0200 | 91.5 | LOW 75 HIGH 125 | | |
| SAMPLE TYPE: Spike-Method/Media blank ANALYSIS: Lead INSTRUMENT: TJA 4000, GFAA ANALYZED: 10/01/95 | | TEST CODE: PB_WG UNITS: mg/L PREPARED: 09/14/95 BLANK: TUNE: | | SAMPLE ID: GFW MS 2 INSTR RUN: 4000\951001143700 DILUTION: 1.000000 BATCH ID: GFW091495-T STANDARD: | | SEQ: 3 REF SEQ: 1 | |
| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | RPD (%) | RPD LIMIT (%) |
| Lead in water by GFAA | 0.0190 | 0.002 | 0.0200 | 95.0 | LOW 75 HIGH 125 | | |
| SAMPLE TYPE: Spike-Sample/Matrix ANALYSIS: Lead INSTRUMENT: TJA 4000, GFAA ANALYZED: 10/01/95 | | TEST CODE: PB_WG UNITS: mg/L PREPARED: 09/14/95 BLANK: TUNE: | | SAMPLE ID: MS19098-02A INSTR RUN: 4000\951001143700 DILUTION: 1.000000 BATCH ID: GFW091495-T STANDARD: | | SEQ: 11 REF SEQ: 10 | |
| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | RPD (%) | RPD LIMIT (%) |
| Lead in water by GFAA | 0.0101 | 0.002 | 0.0200 | 50.5 | LOW 35 HIGH 153 | | |
| SAMPLE TYPE: Spike-Sample/Matrix ANALYSIS: Lead INSTRUMENT: TJA 4000, GFAA ANALYZED: 10/01/95 | | TEST CODE: PB_WG UNITS: mg/L PREPARED: 09/14/95 BLANK: TUNE: | | SAMPLE ID: MS29098-02A INSTR RUN: 4000\951001143700 DILUTION: 1.000000 BATCH ID: GFW091495-T STANDARD: | | SEQ: 12 REF SEQ: 10 | |
| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | RPD (%) | RPD LIMIT (%) |
| Lead in water by GFAA | 0.0125 | 0.002 | 0.0200 | 62.5 | LOW 35 HIGH 153 | | |
| SAMPLE TYPE: Spike-Sample/Matrix ANALYSIS: Lead INSTRUMENT: TJA 4000, GFAA ANALYZED: 10/01/95 | | TEST CODE: PB_WG UNITS: mg/L PREPARED: 09/14/95 BLANK: TUNE: | | SAMPLE ID: MS19127-12A INSTR RUN: 4000\951001143700 DILUTION: 1.000000 BATCH ID: GFW091495-T STANDARD: | | SEQ: 16 REF SEQ: 15 | |
| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | RPD (%) | RPD LIMIT (%) |
| Lead in water by GFAA | 0.0179 | 0.002 | 0.0200 | 89.5 | LOW 35 HIGH 153 | | |
| SAMPLE TYPE: Spike-Sample/Matrix ANALYSIS: Lead INSTRUMENT: TJA 4000, GFAA ANALYZED: 10/01/95 | | TEST CODE: PB_WG UNITS: mg/L PREPARED: 09/14/95 BLANK: TUNE: | | SAMPLE ID: MS29127-12A INSTR RUN: 4000\951001143700 DILUTION: 1.000000 BATCH ID: GFW091495-T STANDARD: | | SEQ: 17 REF SEQ: 15 | |
| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | RPD (%) | RPD LIMIT (%) |
| Lead in water by GFAA | 0.0186 | 0.002 | 0.0200 | 93.0 | LOW 35 HIGH 153 | | |
| SAMPLE TYPE: Spike-Method/Media blank ANALYSIS: Mercury INSTRUMENT: Coleman Hg Analyzer 500 ANALYZED: 09/15/95 | | TEST CODE: HG UNITS: mg/L PREPARED: BLANK: TUNE: | | SAMPLE ID: HGW MS1 INSTR RUN: HG\950915000000 DILUTION: 1.000000 BATCH ID: HGW091595 STANDARD: | | SEQ: 2 REF SEQ: 1 | |
| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | RPD (%) | RPD LIMIT (%) |
| Mercury in water/EPA 7470 | 0.00204 | 0.0002 | 0.00200 | 102 | LOW 89 HIGH 121 | | |

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QUALITY CONTROL REPORT

SPIKE SAMPLES

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGW MS2
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 3
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00204 | 0.0002 | 0.00200 | 102 | 89 | 121 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS09076-01A
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 7
 REF SEQ: 6

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00207 | 0.0002 | 0.00200 | 104 | 69 | 128 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS 9110-04A
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 10
 REF SEQ: 9

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00201 | 0.0002 | 0.00200 | 101 | 69 | 128 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_S
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGS MS1
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 13
 REF SEQ: 12

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | 0.408 | 0.06 | 0.400 | 102 | 79 | 118 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_S
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGS MS2
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 14
 REF SEQ: 12

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | 0.414 | 0.06 | 0.400 | 104 | 79 | 118 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_S
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS 9095-03A
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 17
 REF SEQ: 16

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | 0.659 | 0.06 | 0.400 | 86.5 | 44 | 153 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/15/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/13/95
 BLANK:
 TUNE:

SAMPLE ID: IFW MS 1 0
 INSTR RUN: ICP\950915173800
 DILUTION: 5
 BATCH ID: IFW091395-0
 STANDARD:

SEQ: 2
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.0233 | 0.005 | 0.0250 | 93.2 | 75 | 125 | | |
| Ba Barium | 1.02 | 0.01 | 1.00 | 102 | 75 | 125 | | |
| Be Beryllium | 0.0247 | 0.003 | 0.0250 | 98.8 | 75 | 125 | | |
| Cd Cadmium | 0.0509 | 0.005 | 0.0500 | 102 | 75 | 125 | | |
| Co Cobalt | 0.260 | 0.005 | 0.250 | 100 | 75 | 125 | | |

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QUALITY CONTROL REPORT

SPIKE SAMPLES

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/15/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/13/95
 BLANK:
 TUNE:

SAMPLE ID: IFW MS 1 0
 INSTR RUN: ICPT950915173800
 DILUTION: 5
 BATCH ID: IFW091395-0
 STANDARD:

SEQ: 2
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Cr Chromium | 0.108 | 0.01 | 0.100 | 108 | 75 | 125 | | |
| Cu Copper | 0.132 | 0.01 | 0.125 | 106 | 75 | 125 | | |
| Mo Molybdenum | 0.203 | 0.01 | 0.200 | 102 | 75 | 125 | | |
| Ni Nickel | 0.253 | 0.01 | 0.250 | 101 | 75 | 125 | | |
| Sb Antimony | 0.483 | 0.02 | 0.500 | 96.6 | 75 | 125 | | |
| Tl Thallium | 0.522 | 0.05 | 0.500 | 104 | 75 | 125 | | |
| V Vanadium | 0.258 | 0.005 | 0.250 | 103 | 75 | 125 | | |
| Zn Zinc | 0.263 | 0.03 | 0.250 | 105 | 75 | 125 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/15/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/13/95
 BLANK:
 TUNE:

SAMPLE ID: IFW MS 2 0
 INSTR RUN: ICPT950915173800
 DILUTION: 5
 BATCH ID: IFW091395-0
 STANDARD:

SEQ: 3
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.0250 | 0.005 | 0.0250 | 100 | 75 | 125 | | |
| Ba Barium | 1.07 | 0.01 | 1.00 | 107 | 75 | 125 | | |
| Be Beryllium | 0.0268 | 0.003 | 0.0250 | 107 | 75 | 125 | | |
| Cd Cadmium | 0.0563 | 0.005 | 0.0500 | 113 | 75 | 125 | | |
| Co Cobalt | 0.243 | 0.005 | 0.250 | 97.2 | 75 | 125 | | |
| Cr Chromium | 0.103 | 0.01 | 0.100 | 103 | 75 | 125 | | |
| Cu Copper | 0.136 | 0.01 | 0.125 | 109 | 75 | 125 | | |
| Mo Molybdenum | 0.215 | 0.01 | 0.200 | 108 | 75 | 125 | | |
| Ni Nickel | 0.267 | 0.01 | 0.250 | 107 | 75 | 125 | | |
| Sb Antimony | 0.499 | 0.02 | 0.500 | 99.8 | 75 | 125 | | |
| Tl Thallium | 0.551 | 0.05 | 0.500 | 110 | 75 | 125 | | |
| V Vanadium | 0.269 | 0.005 | 0.250 | 108 | 75 | 125 | | |
| Zn Zinc | 0.269 | 0.03 | 0.250 | 108 | 75 | 125 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: IFW MS 1 A
 INSTR RUN: ICPT950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 2
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00490 | 0.001 | 0.00500 | 98.0 | 75 | 125 | | |
| Ba Barium | 0.2083 | 0.002 | 0.200 | 104 | 75 | 125 | | |
| Be Beryllium | 0.00510 | 0.0005 | 0.00500 | 100 | 75 | 125 | | |
| Cd Cadmium | 0.0107 | 0.001 | 0.0100 | 107 | 75 | 125 | | |
| Co Cobalt | 0.0536 | 0.001 | 0.0500 | 107 | 75 | 125 | | |
| Cr Chromium | 0.0224 | 0.002 | 0.0200 | 112 | 75 | 125 | | |
| Cu Copper | 0.0265 | 0.002 | 0.0250 | 106 | 75 | 125 | | |
| Mo Molybdenum | 0.0422 | 0.002 | 0.0400 | 106 | 75 | 125 | | |
| Ni Nickel | 0.0523 | 0.002 | 0.0500 | 105 | 75 | 125 | | |
| Sb Antimony | 0.1000 | 0.004 | 0.100 | 100 | 75 | 125 | | |
| Tl Thallium | 0.1009 | 0.01 | 0.100 | 101 | 75 | 125 | | |
| V Vanadium | 0.0528 | 0.001 | 0.0500 | 106 | 75 | 125 | | |
| Zn Zinc | 0.0521 | 0.005 | 0.0500 | 104 | 75 | 125 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: IFW MS 2 A
 INSTR RUN: ICPT950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 3
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00510 | 0.001 | 0.00500 | 100 | 75 | 125 | | |
| Ba Barium | 0.2071 | 0.002 | 0.200 | 104 | 75 | 125 | | |
| Be Beryllium | 0.00510 | 0.0005 | 0.00500 | 100 | 75 | 125 | | |
| Cd Cadmium | 0.0104 | 0.001 | 0.0100 | 104 | 75 | 125 | | |
| Co Cobalt | 0.0532 | 0.001 | 0.0500 | 106 | 75 | 125 | | |

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QUALITY CONTROL REPORT

SPIKE SAMPLES

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: IFW MS 2 A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 3
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Cr - Chromium | 0.0215 | 0.002 | 0.0200 | 108 | 75 | 125 | | |
| Cu Copper | 0.0265 | 0.002 | 0.0250 | 106 | 75 | 125 | | |
| Mo Molybdenum | 0.0422 | 0.002 | 0.0400 | 106 | 75 | 125 | | |
| Ni Nickel | 0.0517 | 0.002 | 0.0500 | 103 | 75 | 125 | | |
| Sb Antimony | 0.0993 | 0.004 | 0.100 | 99.3 | 75 | 125 | | |
| Tl Thallium | 0.0955 | 0.01 | 0.100 | 95.5 | 75 | 125 | | |
| V Vanadium | 0.0524 | 0.001 | 0.0500 | 105 | 75 | 125 | | |
| Zn Zinc | 0.0518 | 0.005 | 0.0500 | 104 | 75 | 125 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS19076-05A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 6
 REF SEQ: 5

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00500 | 0.001 | 0.00500 | 100 | 75 | 125 | | |
| Ba Barium | 0.382 | 0.002 | 0.200 | 99.0 | 75 | 125 | | |
| Be Beryllium | 0.00490 | 0.0005 | 0.00500 | 98.0 | 75 | 125 | | |
| Cd Cadmium | 0.00930 | 0.001 | 0.0100 | 93.0 | 75 | 125 | | |
| Co Cobalt | 0.0473 | 0.001 | 0.0500 | 94.6 | 75 | 125 | | |
| Cr Chromium | 0.0195 | 0.002 | 0.0200 | 97.5 | 75 | 125 | | |
| Cu Copper | 0.0262 | 0.002 | 0.0250 | 105 | 75 | 125 | | |
| Mo Molybdenum | 0.0439 | 0.002 | 0.0400 | 93.8 | 75 | 125 | | |
| Ni Nickel | 0.0580 | 0.002 | 0.0500 | 91.2 | 75 | 125 | | |
| Sb Antimony | 0.0911 | 0.004 | 0.100 | 91.1 | 75 | 125 | | |
| Tl Thallium | 0.0977 | 0.01 | 0.100 | 97.7 | 75 | 125 | | |
| V Vanadium | 0.0554 | 0.001 | 0.0500 | 97.4 | 75 | 125 | | |
| Zn Zinc | 0.0579 | 0.005 | 0.0500 | 89.4 | 75 | 125 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: MS29076-05A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 7
 REF SEQ: 5

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00460 | 0.001 | 0.00500 | 92.0 | 75 | 125 | | |
| Ba Barium | 0.377 | 0.002 | 0.200 | 96.5 | 75 | 125 | | |
| Be Beryllium | 0.00480 | 0.0005 | 0.00500 | 96.0 | 75 | 125 | | |
| Cd Cadmium | 0.00890 | 0.001 | 0.0100 | 89.0 | 75 | 125 | | |
| Co Cobalt | 0.0468 | 0.001 | 0.0500 | 93.6 | 75 | 125 | | |
| Cr Chromium | 0.0193 | 0.002 | 0.0200 | 96.5 | 75 | 125 | | |
| Cu Copper | 0.0255 | 0.002 | 0.0250 | 102 | 75 | 125 | | |
| Mo Molybdenum | 0.0435 | 0.002 | 0.0400 | 92.8 | 75 | 125 | | |
| Ni Nickel | 0.0571 | 0.002 | 0.0500 | 89.4 | 75 | 125 | | |
| Sb Antimony | 0.0899 | 0.004 | 0.100 | 89.9 | 75 | 125 | | |
| Tl Thallium | 0.0904 | 0.01 | 0.100 | 90.4 | 75 | 125 | | |
| V Vanadium | 0.0552 | 0.001 | 0.0500 | 97.0 | 75 | 125 | | |
| Zn Zinc | 0.0576 | 0.005 | 0.0500 | 88.8 | 75 | 125 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: MS19098-09A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 12
 REF SEQ: 11

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00410 | 0.001 | 0.00500 | 82.0 | 75 | 125 | | |
| Ba Barium | 0.335 | 0.002 | 0.200 | 91.0 | 75 | 125 | | |
| Be Beryllium | 0.00460 | 0.0005 | 0.00500 | 92.0 | 75 | 125 | | |
| Cd Cadmium | 0.00970 | 0.001 | 0.0100 | 84.0 | 75 | 125 | | |
| Co Cobalt | 0.0484 | 0.001 | 0.0500 | 89.0 | 75 | 125 | | |

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QUALITY CONTROL REPORT

SPIKE SAMPLES

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: MS19098-09A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 12
 REF SEQ: 11

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Cr Chromium | 0.0205 | 0.002 | 0.0200 | 103 | 75 | 125 | | |
| Cu Copper | 0.0254 | 0.002 | 0.0250 | 102 | 75 | 125 | | |
| Mo Molybdenum | 0.0375 | 0.002 | 0.0400 | 93.8 | 75 | 125 | | |
| Ni Nickel | 0.0913 | 0.002 | 0.0500 | 87.0 | 75 | 125 | | |
| Sb Antimony | 0.0924 | 0.004 | 0.100 | 92.4 | 75 | 125 | | |
| Tl Thallium | 0.0897 | 0.01 | 0.100 | 89.7 | 75 | 125 | | |
| V Vanadium | 0.0474 | 0.001 | 0.0500 | 91.6 | 75 | 125 | | |
| Zn Zinc | 0.276 | 0.005 | 0.0500 | 78.0 | 75 | 125 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: MS29098-09A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 13
 REF SEQ: 11

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00450 | 0.001 | 0.00500 | 90.0 | 75 | 125 | | |
| Ba Barium | 0.341 | 0.002 | 0.200 | 94.0 | 75 | 125 | | |
| Be Beryllium | 0.00460 | 0.0005 | 0.00500 | 92.0 | 75 | 125 | | |
| Cd Cadmium | 0.0103 | 0.001 | 0.0100 | 90.0 | 75 | 125 | | |
| Co Cobalt | 0.0497 | 0.001 | 0.0500 | 91.6 | 75 | 125 | | |
| Cr Chromium | 0.0195 | 0.002 | 0.0200 | 97.5 | 75 | 125 | | |
| Cu Copper | 0.0256 | 0.002 | 0.0250 | 102 | 75 | 125 | | |
| Mo Molybdenum | 0.0384 | 0.002 | 0.0400 | 96.0 | 75 | 125 | | |
| Ni Nickel | 0.0915 | 0.002 | 0.0500 | 87.4 | 75 | 125 | | |
| Sb Antimony | 0.0944 | 0.004 | 0.100 | 94.4 | 75 | 125 | | |
| Tl Thallium | 0.0858 | 0.01 | 0.100 | 85.8 | 75 | 125 | | |
| V Vanadium | 0.0478 | 0.001 | 0.0500 | 92.4 | 75 | 125 | | |
| Zn Zinc | 0.281 | 0.005 | 0.0500 | 88.0 | 75 | 125 | | |

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QUALITY CONTROL REPORT

DUPLICATE SAMPLES

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: Arsenic
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: AS_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW MD
 INSTR RUN: 4000\950930111000
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 4
 REF SEQ: 2

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Arsenic by EPA 206.2 | 0.0334 | 0.002 | | | | | 5.54 | 11.5 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Arsenic
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: AS_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9098-02A
 INSTR RUN: 4000\950930111000
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 13
 REF SEQ: 11

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Arsenic by EPA 206.2 | 0.0426 | 0.002 | | | | | 1.63 | 13 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Arsenic
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: AS_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9127-12A
 INSTR RUN: 4000\950930111000
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 18
 REF SEQ: 16

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Arsenic by EPA 206.2 | 0.0385 | 0.002 | | | | | 1.83 | 13 |

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW MD
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 4
 REF SEQ: 2

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0636 | 0.004 | | | | | 3.03 | 13 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9059-03A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 8
 REF SEQ: 6

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0314 | 0.004 | | | | | 18.1 ! | 15 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9098-02A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 13
 REF SEQ: 11

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | ND | 0.004 | | | | | 0 | 15 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9127-12A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 18
 REF SEQ: 16

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0672 | 0.004 | | | | | 11.8 | 15 |

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QUALITY CONTROL REPORT

DUPLICATE SAMPLES

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: GFW MD
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 4
 REF SEQ: 2

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0190 | 0.002 | | | | | 3.75 | 14 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: MD 9098-02A
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 13
 REF SEQ: 11

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0125 | 0.002 | | | | | 21.2 ! | 16 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: MD 9127-12A
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 18
 REF SEQ: 16

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0186 | 0.002 | | | | | 3.84 | 16 |

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGW MD
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 4
 REF SEQ: 2

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00204 | 0.0002 | | | | | 0 | 8 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD09076-01A
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 8
 REF SEQ: 7

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00207 | 0.0002 | | | | | 0 | 6 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9110-04A
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 11
 REF SEQ: 10

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00207 | 0.0002 | | | | | 2.94 | 6 |

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_S
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGS MD
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 15
 REF SEQ: 13

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | 0.414 | 0.06 | | | | | 1.46 | 7 |

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QUALITY CONTROL REPORT

DUPLICATE SAMPLES

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_5
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9095-03A
 INSTR RUN: HGT950915000000
 DILUTION: 1.00000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 18
 REF SEQ: 17

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | 0.650 | 0.06 | | | | | 1.38 | 15 |

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/15/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/13/95
 BLANK:
 TUNE:

SAMPLE ID: IFW MD 0
 INSTR RUN: ICP950915173800
 DILUTION: 5
 BATCH ID: IFW091395-0
 STANDARD:

SEQ: 4
 REF SEQ: 2

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.0250 | 0.005 | | | | | 7.04 | 15 |
| Ba Barium | 1.07 | 0.01 | | | | | 4.78 | 15 |
| Be Beryllium | 0.0268 | 0.003 | | | | | 8.16 | 15 |
| Cd Cadmium | 0.0563 | 0.005 | | | | | 10.1 | 15 |
| Co Cobalt | 0.273 | 0.005 | | | | | 4.88 | 15 |
| Cr Chromium | 0.103 | 0.01 | | | | | 4.74 | 15 |
| Cu Copper | 0.136 | 0.01 | | | | | 2.99 | 15 |
| Mo Molybdenum | 0.215 | 0.01 | | | | | 5.74 | 15 |
| Ni Nickel | 0.267 | 0.01 | | | | | 5.38 | 15 |
| Sb Antimony | 0.499 | 0.02 | | | | | 3.26 | 15 |
| Tl Thallium | 0.551 | 0.05 | | | | | 5.41 | 15 |
| V Vanadium | 0.269 | 0.005 | | | | | 4.17 | 15 |
| Zn Zinc | 0.269 | 0.03 | | | | | 2.26 | 15 |

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: IFW MD A
 INSTR RUN: ICP950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 4
 REF SEQ: 2

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00510 | 0.001 | | | | | 4.00 | 15 |
| Ba Barium | 0.2071 | 0.002 | | | | | 0.5778 | 15 |
| Be Beryllium | 0.00510 | 0.0005 | | | | | 0 | 15 |
| Cd Cadmium | 0.0104 | 0.001 | | | | | 2.84 | 15 |
| Co Cobalt | 0.0532 | 0.001 | | | | | 0.749 | 15 |
| Cr Chromium | 0.0215 | 0.002 | | | | | 4.10 | 15 |
| Cu Copper | 0.0265 | 0.002 | | | | | 0 | 15 |
| Mo Molybdenum | 0.0422 | 0.002 | | | | | 0 | 15 |
| Ni Nickel | 0.0517 | 0.002 | | | | | 1.15 | 15 |
| Sb Antimony | 0.0993 | 0.004 | | | | | 0.702 | 15 |
| Tl Thallium | 0.0955 | 0.01 | | | | | 5.50 | 15 |
| V Vanadium | 0.0524 | 0.001 | | | | | 0.760 | 15 |
| Zn Zinc | 0.0518 | 0.01 | | | | | 0.577 | 15 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: MD 9076-05A
 INSTR RUN: ICP950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 8
 REF SEQ: 6

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00460 | 0.001 | | | | | 8.33 | 15 |
| Ba Barium | 0.377 | 0.002 | | | | | 1.32 | 15 |
| Be Beryllium | 0.00480 | 0.0005 | | | | | 2.06 | 15 |
| Cd Cadmium | 0.00890 | 0.001 | | | | | 4.40 | 15 |
| Co Cobalt | 0.0468 | 0.001 | | | | | 1.06 | 15 |
| Cr Chromium | 0.0193 | 0.002 | | | | | 1.03 | 15 |
| Cu Copper | 0.0255 | 0.002 | | | | | 2.71 | 15 |
| Mo Molybdenum | 0.0435 | 0.002 | | | | | 0.915 | 15 |
| Ni Nickel | 0.0571 | 0.002 | | | | | 1.56 | 15 |
| Sb Antimony | 0.0899 | 0.004 | | | | | 1.33 | 15 |
| Tl Thallium | 0.0904 | 0.01 | | | | | 7.76 | 15 |
| V Vanadium | 0.0552 | 0.001 | | | | | 0.362 | 15 |

WORK ORDER: 9509076

PAGE QR-14

QUALITY CONTROL REPORT
DUPLICATE SAMPLES

SAMPLE TYPE: Spiked Sample Duplicate
ANALYSIS: CCR 17 Metals (Low Level)
INSTRUMENT: TJA Enviro 36
ANALYZED: 09/19/95

TEST CODE: CM17LL
UNITS: mg/L
PREPARED: 09/17/95
BLANK:
TUNE:

SAMPLE ID: MD 9076-05A
INSTR RUN: ICP\950919102700
DILUTION: 1.000000
BATCH ID: IFW091795-A
STANDARD:

SEQ: 8
REF SEQ: 6

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Zn | 0.0576 | 0.01 | | | | | 0.519 | 15 |

SAMPLE TYPE: Spiked Sample Duplicate
ANALYSIS: CCR 17 Metals (Low Level)
INSTRUMENT: TJA Enviro 36
ANALYZED: 09/19/95

TEST CODE: CM17LL
UNITS: mg/L
PREPARED: 09/17/95
BLANK:
TUNE:

SAMPLE ID: MD 9098-09A
INSTR RUN: ICP\950919102700
DILUTION: 1.000000
BATCH ID: IFW091795-A
STANDARD:

SEQ: 14
REF SEQ: 12

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag | 0.00450 | 0.001 | | | | | 9.30 | 15 |
| Ba | 0.341 | 0.002 | | | | | 1.78 | 15 |
| Be | 0.00460 | 0.0005 | | | | | 0 | 15 |
| Cd | 0.0103 | 0.001 | | | | | 6.00 | 15 |
| Co | 0.0497 | 0.001 | | | | | 2.65 | 15 |
| Cr | 0.0195 | 0.002 | | | | | 5.00 | 15 |
| Cu | 0.0254 | 0.002 | | | | | 0 | 15 |
| Mo | 0.0384 | 0.002 | | | | | 2.37 | 15 |
| Ni | 0.0915 | 0.002 | | | | | 0.219 | 15 |
| Sb | 0.0944 | 0.004 | | | | | 2.14 | 15 |
| Tl | 0.0858 | 0.01 | | | | | 4.44 | 15 |
| V | 0.0478 | 0.001 | | | | | 0.840 | 15 |
| Zn | 0.281 | 0.01 | | | | | 1.80 | 15 |

----- End of Quality Control Report -----

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

152
9509076

Project No.: 3018.95.20 Field Logbook No.: Date: 9/7/95 Serial No.:
 Project Name: Volvo/GM Project Location: OAKLAND, CA. No 013749

Sampler (Signature): J.C. Keeler ANALYSES Samplers: JCK

| SAMPLE NO. | DATE | TIME | LAB SAMPLE NO. | NO. OF CON-TAINERS | SAMPLE TYPE | ANALYSES | | | | | | REMARKS | |
|------------|--------|-------|----------------|--------------------|------------------|----------|---------|-----------------|------|------|--|---------|------------------------------|
| | | | | | | EPA 601 | EPA 624 | TITLE 22 METALS | HOLD | RUSH | | | |
| 01A LF-17 | 9/6/95 | 15:15 | | 1 | H ₂ O | | | X | | | | | STD TAT |
| 02A MW-4 | | 15:35 | | | | | | X | | | | | |
| 03A LF-12 | | 16:15 | | | | | | X | | | | | RESULTS TO |
| 04A LF-5 | | 17:10 | | | | | | X | | | | | IDENTIFIED |
| 05A LF-7 | | 17:40 | | | | | | X | | | | | JOHN KEELER |
| | | | | | | | | | | | | | TITLE 22 METALS |
| | | | | | | | | | | | | | BASEIN PLAN DETECTION LIMITS |
| | | | | | | | | | | | | | FIELD FILTERED |

| | | | | | |
|--|-------------|------------|--|-------------|------------|
| RELINQUISHED BY: (Signature) J.C. Keeler | DATE 9/7/95 | TIME 14:10 | RECEIVED BY: (Signature) Michael E. Keeler | DATE 9/7/95 | TIME 14:10 |
| RELINQUISHED BY: (Signature) Michael E. Keeler | DATE 9/7/95 | TIME 15:20 | RECEIVED BY: (Signature) Dina M. Beller | DATE 9/7/95 | TIME 15:20 |
| RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature) | DATE | TIME |
| METHOD OF SHIPMENT: | DATE | TIME | LAB COMMENTS: | | |

Sample Collector: LEVINE-FRICKE
 1900 Powell Street, 12th Floor
 Emeryville, California 94608
 (510) 652-4500

Analytical Laboratory: AEN
 PLEASANT HILL CA.

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

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

REPORT DATE: 10/09/95

DATE(S) SAMPLED: 09/08/95

DATE RECEIVED: 09/08/95

AEN WORK ORDER: 9509110

ATTN: JOHN KEELER
CLIENT PROJ. ID: 3018.95.20
CLIENT PROJ. NAME: VOLVO/GM
C.O.C. NUMBER: 013796

PROJECT SUMMARY:

On September 8, 1995, this laboratory received 5 water sample(s).

Client requested sample(s) be analyzed for inorganic and organic 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-14
 AEN LAB NO: 9509110-01A
 AEN WORK ORDER: 9509110
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/08/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/09/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/13/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.005 | mg/L | 09/16/95 |
| As Arsenic | EPA 206.2 | ND | 0.002 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | 0.01 * | 0.01 | mg/L | 09/16/95 |
| Be Beryllium | EPA 200.7 | 0.002 * | 0.002 | mg/L | 09/16/95 |
| Cd Cadmium | EPA 200.7 | 0.086 * | 0.005 | mg/L | 09/16/95 |
| Co Cobalt | EPA 200.7 | 0.78 * | 0.005 | mg/L | 09/16/95 |
| Cr Chromium | EPA 200.7 | ND | 0.01 | mg/L | 09/16/95 |
| Cu Copper | EPA 200.7 | 2.8 * | 0.01 | mg/L | 09/16/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/15/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.01 | mg/L | 09/16/95 |
| Ni Nickel | EPA 200.7 | 1.9 * | 0.01 | mg/L | 09/16/95 |
| Pb Lead | EPA 239.2 | 0.017 * | 0.005 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.02 | mg/L | 09/16/95 |
| Se Selenium | EPA 270.2 | ND | 0.004 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | 0.10 * | 0.05 | mg/L | 09/16/95 |
| V Vanadium | EPA 200.7 | 0.015 * | 0.005 | mg/L | 09/16/95 |
| Zn Zinc | EPA 200.7 | 310 * | 0.1 | mg/L | 09/15/95 |

Reporting limits elevated 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: 9509110-01B
 AEN WORK ORDER: 9509110
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/08/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/09/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|--------|--------------------|-------|------------------|
| BTEX & Gasoline HCs | EPA 8020 | | | | |
| Benzene | 71-43-2 | 0.9 * | 0.5 | ug/L | 09/19/95 |
| Toluene | 108-88-3 | 0.7 * | 0.5 | ug/L | 09/19/95 |
| Ethylbenzene | 100-41-4 | ND | 0.5 | ug/L | 09/19/95 |
| Xylenes, Total | 1330-20-7 | 2 * | 2 | ug/L | 09/19/95 |
| Purgeable HCs as Gasoline | 5030/GCFID | 1.4 * | 0.05 | mg/L | 09/19/95 |

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-14
AEN LAB NO: 9509110-01E
AEN WORK ORDER: 9509110
CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/08/95
DATE RECEIVED: 09/08/95
REPORT DATE: 10/09/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for TPH | EPA 3510 | - | | Extrn Date | 09/18/95 |
| TPH as Diesel | GC-FID | ND | 0.05 | mg/L | 09/19/95 |
| TPH as Oil | GC-FID | ND | 0.2 | mg/L | 09/19/95 |

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-15
 AEN LAB NO: 9509110-02A
 AEN WORK ORDER: 9509110
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/08/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/09/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|--------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/13/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.05 | mg/L | 10/07/95 |
| As Arsenic | EPA 206.2 | ND | 0.01 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | ND | 0.1 | mg/L | 10/07/95 |
| Be Beryllium | EPA 200.7 | ND | 0.02 | mg/L | 10/07/95 |
| Cd Cadmium | EPA 200.7 | 2.1 * | 0.05 | mg/L | 10/07/95 |
| Co Cobalt | EPA 200.7 | 14 * | 0.05 | mg/L | 10/07/95 |
| Cr Chromium | EPA 200.7 | ND | 0.1 | mg/L | 10/07/95 |
| Cu Copper | EPA 200.7 | ND | 0.1 | mg/L | 10/07/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/15/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.1 | mg/L | 10/07/95 |
| Ni Nickel | EPA 200.7 | 37 * | 0.1 | mg/L | 10/07/95 |
| Pb Lead | EPA 239.2 | 0.07 * | 0.02 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.2 | mg/L | 10/07/95 |
| Se Selenium | EPA 270.2 | ND | 0.02 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | 0.9 * | 0.5 | mg/L | 10/07/95 |
| V Vanadium | EPA 200.7 | ND | 0.05 | mg/L | 10/07/95 |
| Zn Zinc | EPA 200.7 | 570 * | 0.1 | mg/L | 09/15/95 |

Reporting limits elevated due to matrix interference.

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-16
 AEN LAB NO: 9509110-03A
 AEN WORK ORDER: 9509110
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/08/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/09/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 10/01/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.05 | mg/L | 10/06/95 |
| As Arsenic | EPA 206.2 | 0.006 * | 0.005 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | 0.3 * | 0.1 | mg/L | 10/06/95 |
| Be Beryllium | EPA 200.7 | 0.02 * | 0.02 | mg/L | 10/06/95 |
| Cd Cadmium | EPA 200.7 | 8.4 * | 0.05 | mg/L | 10/06/95 |
| Co Cobalt | EPA 200.7 | 5.6 * | 0.05 | mg/L | 10/06/95 |
| Cr Chromium | EPA 200.7 | ND | 0.1 | mg/L | 10/06/95 |
| Cu Copper | EPA 200.7 | 18 * | 0.1 | mg/L | 10/06/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/15/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.1 | mg/L | 10/06/95 |
| Ni Nickel | EPA 200.7 | 15 * | 0.1 | mg/L | 10/06/95 |
| Pb Lead | EPA 239.2 | ND | 0.02 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.2 | mg/L | 10/06/95 |
| Se Selenium | EPA 270.2 | ND | 0.01 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | 0.7 * | 0.5 | mg/L | 10/06/95 |
| V Vanadium | EPA 200.7 | ND | 0.05 | mg/L | 10/06/95 |
| Zn Zinc | EPA 200.7 | 2,800 * | 1 | mg/L | 10/07/95 |

Reporting limits elevated 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: 9509110

CLIENT PROJECT ID: 3018.95.20

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: 9509110
AEN LAB NO: 0918-BLANK
DATE EXTRACTED: 09/18/95
DATE ANALYZED: 09/19/95
INSTRUMENT: C
MATRIX: WATER

Method Blank

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

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9509110
 DATE EXTRACTED: 09/18/95
 INSTRUMENT: C
 MATRIX: WATER

Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery n-Pentacosane |
|---------------|------------|---------|-----------------------------------|
| 09/19/95 | LF-14 | 01 | 112 |
| QC Limits: | | | 59-118 |

DATE EXTRACTED: 09/18/95
 DATE ANALYZED: 09/18/95
 SAMPLE SPIKED: DI WATER
 INSTRUMENT: C

Method Spike Recovery Summary

| Analyte | Spike Added (mg/L) | Average Percent Recovery | RPD | QC Limits | |
|---------|-----------------------|--------------------------------|-----|---------------------|-----|
| | | | | Percent Recovery | RPD |
| Diesel | 2.07 | 80 | <1 | 65-103 | 12 |

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9509110
AEN LAB NO: 0919-BLANK
DATE ANALYZED: 09/19/95
INSTRUMENT: H
MATRIX: WATER

Method Blank

| | CAS # | Result (ug/L) | Reporting Limit (ug/L) |
|-----------------|-----------|------------------|------------------------------|
| Benzene | 71-43-2 | ND | 0.5 |
| Toluene | 108-88-3 | ND | 0.5 |
| Ethylbenzene | 100-41-4 | ND | 0.5 |
| Xylenes, Total | 1330-20-7 | ND | 2 |
| HCs as Gasoline | | ND mg/L | 0.05 mg/L |

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9509110
 INSTRUMENT: H
 MATRIX: WATER

Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery Fluorobenzene |
|---------------|------------|---------|--------------------------------|
| 09/19/95 | LF-14 | 01 | 99 |
| QC Limits: | | | 92-109 |

DATE ANALYZED: 09/18/95
 SAMPLE SPIKED: 9509111-01
 INSTRUMENT: H

Matrix Spike Recovery Summary

| Analyte | Spike Added (ug/L) | Average Percent Recovery | RPD | QC Limits | |
|--------------------------|--------------------|--------------------------|-----|------------------|-----|
| | | | | Percent Recovery | RPD |
| Benzene | 35.4 | 107 | <1 | 85-109 | 17 |
| Toluene | 108 | 109 | <1 | 87-111 | 16 |
| Hydrocarbons as Gasoline | 1000 | 89 | 3 | 66-117 | 19 |

QUALITY CONTROL DATA

AEN JOB NO: 9509110
 SAMPLE SPIKED: DI WATER
 DATE(S) ANALYZED: 09/15-10/07/95
 MATRIX: WATER

Method Blank and Spike Recovery Summary

| Analyte | Inst./ Method | Blank Result (mg/L) | Spike Added (mg/L) | Percent Recovery | RPD | QC Limits | |
|--------------|------------------|---------------------------|--------------------------|---------------------|-----|---------------------|-----|
| | | | | | | Percent Recovery | RPD |
| Ag. Silver | ICP/200.7 | ND | 0.025 | 93 | 7 | 75-125 | 15 |
| As. Arsenic | 4000/7060 | ND | 0.04 | 79 | 6 | 69-136 | 11 |
| Ba. Barium | ICP/200.7 | ND | 0.2 | 102 | 5 | 75-125 | 15 |
| Cd. Cadmium | ICP/200.7 | ND | 0.05 | 102 | 10 | 75-125 | 15 |
| Cr. Chromium | ICP/200.7 | ND | 0.1 | 108 | 5 | 75-125 | 15 |
| Cu. Copper | ICP/200.7 | ND | 0.125 | 106 | 3 | 75-125 | 15 |
| Hg. Mercury | Hg/7470 | ND | 2.0 ug/L | 102 | <1 | 89-121 | 8 |
| Ni. Nickel | ICP/200.7 | ND | 0.25 | 101 | 5 | 75-125 | 15 |
| Pb. Lead | 4000/239.2 | ND | 0.02 | 92 | 4 | 75-125 | 14 |
| Se. Selenium | 4000/7740 | ND | 0.08 | 77 | 3 | 75-115 | 13 |
| Zn. Zinc | ICP/200.7 | ND | 0.25 | 105 | 2 | 75-125 | 15 |

*** END OF REPORT ***

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

950911D R-7,S-B;
C-1,S-3
R-3,S-1

Project No.: 3018.95.20 Field Logbook No.: Date: 9/8/95 Serial No.:
Project Name: VOLVO/GM Project Location: OAKLAND, Ca. No 013796

Sampler (Signature): *JCK* ANALYSES: Samplers: JCK

| SAMPLE NO. | DATE | TIME | LAB SAMPLE NO. | NO. OF CON-TAINERS | SAMPLE TYPE | ANALYSES | | | | | | REMARKS |
|-------------|--------|-------|----------------|--------------------|-------------|----------|---------|-----------------|--------------|--------------|------|------------------------------|
| | | | | | | EPA 601 | EPA 624 | TITLE 22 (LEAD) | TPH-5 (BTEX) | TPH-10 (TPH) | HOLD | |
| 1A-F LF-14 | 9/8/95 | 9:10 | 01A-F | 6 | | | X | X | X | | | STD TAT |
| 2A LF-16 | | 10:45 | 03A | 1 | | | X | | | | | RESULTS TO JOHN KEENER |
| 3A LF-9 | | 9:55 | 04A | 1 | | | X | | | | | |
| 4A LF-15 | | 1200 | 02A | 1 | | | X | | | | | |
| 5A LF-15:BB | | 10:55 | 05A | 1 | | | X | | | | | |
| | | | | | | | | | | | | TITLE 22 LEADS |
| | | | | | | | | | | | | Basin Pan Detection LILIB |
| | | | | | | | | | | | | FIELD FILTERED & PRESERVED |

| | | | | | |
|--|--------------|-------------|--|--------------|-------------|
| RELINQUISHED BY: <i>J. G. [Signature]</i> | DATE: 9/8/95 | TIME: 13:40 | RECEIVED BY: <i>Michael E. [Signature]</i> | DATE: 9/8/95 | TIME: 15:40 |
| RELINQUISHED BY: <i>Michael E. [Signature]</i> | DATE: 9/8/95 | TIME: 17:25 | RECEIVED BY: <i>[Signature]</i> | DATE: 9/8/95 | TIME: 17:25 |
| RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature) | DATE | TIME |
| METHOD OF SHIPMENT: | DATE | TIME | LAB COMMENTS: | | |

Sample Collector: LEVINE-FRICKE
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500

Analytical Laboratory: AEN
PLEASANT HILL, CA.

American Environmental Network

Certificate of Analysis

DOHS Certificate # 1133

AHA Accreditation: 11134

PAGE 1

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

ATTN: JENIFER BEATTY
CLIENT PROJ. ID: 3018.95.20
CLIENT PROJ. NAME: VOLVO/GM
C.O.C. NUMBER: 013747

REPORT DATE: 10/09/95

DATE(S) SAMPLED: 09/05/95

DATE RECEIVED: 09/06/95

AEN WORK ORDER: 9509059

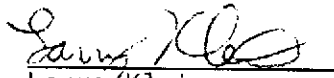
PROJECT SUMMARY:

On September 6, 1995, this laboratory received 3 water sample(s).

Client requested sample(s) be analyzed for inorganic 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-1
 AEN LAB NO: 9509059-01
 AEN WORK ORDER: 9509059
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/05/95
 DATE RECEIVED: 09/06/95
 REPORT DATE: 10/09/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver | EPA 200.7 | ND | 0.001 mg/L | 09/19/95 |
| As | Arsenic | EPA 206.2 | 0.12 * | 0.005 mg/L | 09/30/95 |
| Ba | Barium | EPA 200.7 | 0.12 * | 0.002 mg/L | 09/19/95 |
| Be | Beryllium | EPA 200.7 | ND | 0.0005 mg/L | 09/19/95 |
| Cd | Cadmium | EPA 200.7 | 0.002 * | 0.001 mg/L | 09/19/95 |
| Co | Cobalt | EPA 200.7 | 0.018 * | 0.001 mg/L | 09/19/95 |
| Cr | Chromium | EPA 200.7 | 0.002 * | 0.002 mg/L | 09/19/95 |
| Cu | Copper | EPA 200.7 | ND | 0.002 mg/L | 09/19/95 |
| Hg | Mercury | EPA 245.1 | ND | 0.0002 mg/L | 09/15/95 |
| Mo | Molybdenum | EPA 200.7 | 0.018 * | 0.002 mg/L | 09/19/95 |
| Ni | Nickel | EPA 200.7 | 0.014 * | 0.002 mg/L | 09/19/95 |
| Pb | Lead | EPA 239.2 | ND | 0.005 mg/L | 10/01/95 |
| Sb | Antimony | EPA 200.7 | 0.029 * | 0.004 mg/L | 09/19/95 |
| Se | Selenium | EPA 270.2 | ND | 0.01 mg/L | 09/30/95 |
| Tl | Thallium | EPA 200.7 | ND | 0.01 mg/L | 09/19/95 |
| V | Vanadium | EPA 200.7 | 0.019 * | 0.001 mg/L | 09/19/95 |
| Zn | Zinc | EPA 200.7 | 1.4 * | 0.01 mg/L | 09/19/95 |

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

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE - FRICKE

SAMPLE ID: MW-2
 AEN LAB NO: 9509059-02
 AEN WORK ORDER: 9509059
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/05/95
 DATE RECEIVED: 09/06/95
 REPORT DATE: 10/09/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/13/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.05 | mg/L | 09/15/95 |
| As Arsenic | EPA 206.2 | 1.3 * | 0.1 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | ND | 0.1 | mg/L | 09/15/95 |
| Be Beryllium | EPA 200.7 | ND | 0.02 | mg/L | 09/15/95 |
| Cd Cadmium | EPA 200.7 | 5.2 * | 0.05 | mg/L | 09/15/95 |
| Co Cobalt | EPA 200.7 | 0.55 * | 0.05 | mg/L | 09/15/95 |
| Cr Chromium | EPA 200.7 | ND | 0.1 | mg/L | 09/15/95 |
| Cu Copper | EPA 200.7 | 0.2 * | 0.1 | mg/L | 09/15/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/15/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.1 | mg/L | 09/15/95 |
| Ni Nickel | EPA 200.7 | 1.9 * | 0.1 | mg/L | 09/15/95 |
| Pb Lead | EPA 239.2 | 0.02 * | 0.01 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.2 | mg/L | 09/15/95 |
| Se Selenium | EPA 270.2 | ND | 0.2 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | ND | 0.5 | mg/L | 09/15/95 |
| V Vanadium | EPA 200.7 | ND | 0.05 | mg/L | 09/15/95 |
| Zn Zinc | EPA 200.7 | 2,300 * | 1 | mg/L | 09/15/95 |

Reporting limits elevated 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: 9509059.03
 AEN WORK ORDER: 9509059
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/05/95
 DATE RECEIVED: 09/06/95
 REPORT DATE: 10/09/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-------------------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/13/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver EPA 200.7 | ND | 0.005 | mg/L | 09/16/95 |
| As | Arsenic EPA 206.2 | ND | 0.002 | mg/L | 09/30/95 |
| Ba | Barium EPA 200.7 | 0.03 * | 0.01 | mg/L | 09/16/95 |
| Be | Beryllium EPA 200.7 | 0.004 * | 0.002 | mg/L | 09/16/95 |
| Cd | Cadmium EPA 200.7 | 0.84 * | 0.005 | mg/L | 09/16/95 |
| Co | Cobalt EPA 200.7 | 1.3 * | 0.005 | mg/L | 09/16/95 |
| Cr | Chromium EPA 200.7 | ND | 0.01 | mg/L | 09/16/95 |
| Cu | Copper EPA 200.7 | 0.90 * | 0.01 | mg/L | 09/16/95 |
| Hg | Mercury EPA 245.1 | ND | 0.0002 | mg/L | 09/15/95 |
| Mo | Molybdenum EPA 200.7 | 0.01 * | 0.01 | mg/L | 09/16/95 |
| Ni | Nickel EPA 200.7 | 3.8 * | 0.01 | mg/L | 09/16/95 |
| Pb | Lead EPA 239.2 | ND | 0.002 | mg/L | 10/01/95 |
| Sb | Antimony EPA 200.7 | ND | 0.02 | mg/L | 09/16/95 |
| Se | Selenium EPA 270.2 | 0.004 * | 0.004 | mg/L | 09/30/95 |
| Tl | Thallium EPA 200.7 | ND | 0.05 | mg/L | 09/16/95 |
| V | Vanadium EPA 200.7 | ND | 0.005 | mg/L | 09/16/95 |
| Zn | Zinc EPA 200.7 | 1,100 * | 0.1 | mg/L | 09/15/95 |

Reporting limits elevated 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: 9509059

CLIENT PROJECT ID: 3018.95.20

Quality Control and Project Summary

Selenium RPD for sample MW-3 (9509059-03) was outside of established limits; this appears to be a matrix effect as selenium method spike RPD was in control.

All other 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 REPORT

BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW BLNK
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 1
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | ND | 0.004 | | | | | | |

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: GFW BLNK
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 1
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | ND | 0.002 | | | | | | |

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGW BLNK
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 1
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | ND | 0.0002 | | | | | | |

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_S
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGS BLNK
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 12
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | ND | 0.06 | | | | | | |

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/15/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/13/95
 BLANK:
 TUNE:

SAMPLE ID: IFW BLNK 0
 INSTR RUN: ICP\950915173800
 DILUTION: 5
 BATCH ID: IFW091395-0
 STANDARD:

SEQ: 1
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | ND | 0.005 | | | | | | |
| Ba Barium | ND | 0.01 | | | | | | |
| Be Beryllium | ND | 0.002 | | | | | | |
| Cd Cadmium | ND | 0.005 | | | | | | |
| Co Cobalt | ND | 0.005 | | | | | | |
| Cr Chromium | ND | 0.01 | | | | | | |
| Cu Copper | ND | 0.01 | | | | | | |
| Mo Molybdenum | ND | 0.01 | | | | | | |
| Ni Nickel | ND | 0.01 | | | | | | |
| Sb Antimony | ND | 0.02 | | | | | | |
| Tl Thallium | ND | 0.05 | | | | | | |
| V Vanadium | ND | 0.005 | | | | | | |
| Zn Zinc | ND | 0.01 | | | | | | |

SAMPLE TYPE: Blank-Method/Media blank
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: IFW BLNK A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 1
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | ND | 0.001 | | | | | | |
| Ba Barium | ND | 0.002 | | | | | | |
| Be Beryllium | ND | 0.0005 | | | | | | |

QUALITY CONTROL REPORT

BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank
ANALYSIS: CCR 17 Metals (Low Level)
INSTRUMENT: TJA Enviro 36
ANALYZED: 09/19/95

TEST CODE: CM17LL
UNITS: mg/L
PREPARED: 09/17/95
BLANK:
TUNE:

SAMPLE ID: IFW BLNK A
INSTR RUN: ICP9509I9102700
DILUTION: 1.000000
BATCH ID: IFW091795-A
STANDARD:

SEQ: 1
REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|--------------------|----------------|-----------------|----------------|------|---------|------------------|
| | | | | | LOW | HIGH | | |
| Cd Cadmium | ND | 0.001 | | | | | | |
| Co Cobalt | ND | 0.001 | | | | | | |
| Cr Chromium | ND | 0.002 | | | | | | |
| Cu Copper | ND | 0.002 | | | | | | |
| Mo Molybdenum | ND | 0.002 | | | | | | |
| Ni Nickel | ND | 0.002 | | | | | | |
| Sb Antimony | ND | 0.004 | | | | | | |
| Tl Thallium | ND | 0.01 | | | | | | |
| V Vanadium | ND | 0.001 | | | | | | |
| Zn Zinc | ND | 0.01 | | | | | | |

QUALITY CONTROL REPORT

SPIKE SAMPLES

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW MS 1
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 2
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0617 | 0.004 | 0.0800 | 77.1 | 75 | 115 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW MS 2
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 3
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0636 | 0.004 | 0.0800 | 79.5 | 75 | 115 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS19059-03A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 6
 REF SEQ: 5

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0262 | 0.004 | 0.0800 | 32.8 | 0 | 173 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS29059-03A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 7
 REF SEQ: 5

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0314 | 0.004 | 0.0800 | 39.3 | 0 | 173 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS19098-02A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 11
 REF SEQ: 10

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | ND | 0.004 | 0.0800 | 0 | 0 | 173 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS29098-02A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 12
 REF SEQ: 10

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | ND | 0.004 | 0.0800 | 0 | 0 | 173 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS19127-12A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 16
 REF SEQ: 15

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0597 | 0.004 | 0.0800 | 74.6 | 0 | 173 | | |

WORK ORDER: 9509059

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QUALITY CONTROL REPORT

SPIKE SAMPLES

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS29127-12A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 17
 REF SEQ: 15

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0672 | 0.004 | 0.0800 | 84.0 | 0 | 173 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: GFW MS 1
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 2
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0183 | 0.002 | 0.0200 | 91.5 | 75 | 125 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: GFW MS 2
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 3
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0190 | 0.002 | 0.0200 | 95.0 | 75 | 125 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: MS19098-02A
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 11
 REF SEQ: 10

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0101 | 0.002 | 0.0200 | 50.5 | 35 | 153 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: MS29098-02A
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 12
 REF SEQ: 10

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0125 | 0.002 | 0.0200 | 62.5 | 35 | 153 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: MS19127-12A
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 16
 REF SEQ: 15

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0179 | 0.002 | 0.0200 | 89.5 | 35 | 153 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: MS29127-12A
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 17
 REF SEQ: 15

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0186 | 0.002 | 0.0200 | 93.0 | 35 | 153 | | |

WORK ORDER: 9509059

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QUALITY CONTROL REPORT

SPIKE SAMPLES

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGW MS1
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 2
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00204 | 0.0002 | 0.00200 | 102 | 89 | 121 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGW MS2
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 3
 REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00204 | 0.0002 | 0.00200 | 102 | 89 | 121 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS09076-01A
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 7
 REF SEQ: 6

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00207 | 0.0002 | 0.00200 | 104 | 69 | 128 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS 9110-04A
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 10
 REF SEQ: 9

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00201 | 0.0002 | 0.00200 | 101 | 69 | 128 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_S
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGS MS1
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 13
 REF SEQ: 12

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | 0.408 | 0.06 | 0.400 | 102 | 79 | 118 | | |

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_S
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGS MS2
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 14
 REF SEQ: 12

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | 0.414 | 0.06 | 0.400 | 104 | 79 | 118 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_S
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS 9095-03A
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 17
 REF SEQ: 16

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | 0.659 | 0.06 | 0.400 | 86.5 | 44 | 153 | | |

WORK ORDER: 9509059

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QUALITY CONTROL REPORT
SPIKE SAMPLES

SAMPLE TYPE: Spike-Method/Media blank
ANALYSIS: CCR 17 Metals (Low Level)
INSTRUMENT: TJA Enviro 36
ANALYZED: 09/15/95

TEST CODE: CM17LL
UNITS: mg/L
PREPARED: 09/13/95
BLANK:
TUNE:

SAMPLE ID: IFW MS 1 0
INSTR RUN: ICPT9509I5173800
DILUTION: 5
BATCH ID: IFW091395-0
STANDARD:

SEQ: 2
REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.0233 | 0.005 | 0.0250 | 93.2 | 75 | 125 | | |
| Ba Barium | 1.02 | 0.01 | 1.00 | 102 | 75 | 125 | | |
| Be Beryllium | 0.0247 | 0.003 | 0.0250 | 98.8 | 75 | 125 | | |
| Cd Cadmium | 0.0509 | 0.005 | 0.0500 | 102 | 75 | 125 | | |
| Co Cobalt | 0.260 | 0.005 | 0.250 | 100 | 75 | 125 | | |
| Cr Chromium | 0.108 | 0.01 | 0.100 | 108 | 75 | 125 | | |
| Cu Copper | 0.132 | 0.01 | 0.125 | 106 | 75 | 125 | | |
| Mo Molybdenum | 0.203 | 0.01 | 0.200 | 102 | 75 | 125 | | |
| Ni Nickel | 0.253 | 0.01 | 0.250 | 101 | 75 | 125 | | |
| Sb Antimony | 0.483 | 0.02 | 0.500 | 96.6 | 75 | 125 | | |
| Tl Thallium | 0.522 | 0.05 | 0.500 | 104 | 75 | 125 | | |
| V Vanadium | 0.258 | 0.005 | 0.250 | 103 | 75 | 125 | | |
| Zn Zinc | 0.263 | 0.03 | 0.250 | 105 | 75 | 125 | | |

SAMPLE TYPE: Spike-Method/Media blank
ANALYSIS: CCR 17 Metals (Low Level)
INSTRUMENT: TJA Enviro 36
ANALYZED: 09/15/95

TEST CODE: CM17LL
UNITS: mg/L
PREPARED: 09/13/95
BLANK:
TUNE:

SAMPLE ID: IFW MS 2 0
INSTR RUN: ICPT9509I5173800
DILUTION: 5
BATCH ID: IFW091395-0
STANDARD:

SEQ: 3
REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.0250 | 0.005 | 0.0250 | 100 | 75 | 125 | | |
| Ba Barium | 1.07 | 0.01 | 1.00 | 107 | 75 | 125 | | |
| Be Beryllium | 0.0268 | 0.003 | 0.0250 | 107 | 75 | 125 | | |
| Cd Cadmium | 0.0563 | 0.005 | 0.0500 | 113 | 75 | 125 | | |
| Co Cobalt | 0.243 | 0.005 | 0.250 | 97.2 | 75 | 125 | | |
| Cr Chromium | 0.103 | 0.01 | 0.100 | 103 | 75 | 125 | | |
| Cu Copper | 0.136 | 0.01 | 0.125 | 109 | 75 | 125 | | |
| Mo Molybdenum | 0.215 | 0.01 | 0.200 | 108 | 75 | 125 | | |
| Ni Nickel | 0.267 | 0.01 | 0.250 | 107 | 75 | 125 | | |
| Sb Antimony | 0.499 | 0.02 | 0.500 | 99.8 | 75 | 125 | | |
| Tl Thallium | 0.551 | 0.05 | 0.500 | 110 | 75 | 125 | | |
| V Vanadium | 0.269 | 0.005 | 0.250 | 108 | 75 | 125 | | |
| Zn Zinc | 0.269 | 0.03 | 0.250 | 108 | 75 | 125 | | |

SAMPLE TYPE: Spike-Method/Media blank
ANALYSIS: CCR 17 Metals (Low Level)
INSTRUMENT: TJA Enviro 36
ANALYZED: 09/19/95

TEST CODE: CM17LL
UNITS: mg/L
PREPARED: 09/17/95
BLANK:
TUNE:

SAMPLE ID: IFW MS 1 A
INSTR RUN: ICPT9509I9102700
DILUTION: 1.000000
BATCH ID: IFW091795-A
STANDARD:

SEQ: 2
REF SEQ: 1

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00490 | 0.001 | 0.00500 | 98.0 | 75 | 125 | | |
| Ba Barium | 0.2083 | 0.002 | 0.200 | 104 | 75 | 125 | | |
| Be Beryllium | 0.00510 | 0.0005 | 0.00500 | 100 | 75 | 125 | | |
| Cd Cadmium | 0.0107 | 0.001 | 0.0100 | 107 | 75 | 125 | | |
| Co Cobalt | 0.0536 | 0.001 | 0.0500 | 107 | 75 | 125 | | |
| Cr Chromium | 0.0224 | 0.002 | 0.0200 | 112 | 75 | 125 | | |
| Cu Copper | 0.0265 | 0.002 | 0.0250 | 106 | 75 | 125 | | |
| Mo Molybdenum | 0.0422 | 0.002 | 0.0400 | 106 | 75 | 125 | | |
| Ni Nickel | 0.0523 | 0.002 | 0.0500 | 105 | 75 | 125 | | |
| Sb Antimony | 0.1000 | 0.004 | 0.100 | 100 | 75 | 125 | | |
| Tl Thallium | 0.1009 | 0.01 | 0.100 | 101 | 75 | 125 | | |
| V Vanadium | 0.0528 | 0.001 | 0.0500 | 106 | 75 | 125 | | |
| Zn Zinc | 0.0521 | 0.005 | 0.0500 | 104 | 75 | 125 | | |

WORK ORDER: 9509059

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QUALITY CONTROL REPORT

SPIKE SAMPLES

SAMPLE TYPE: Spike-Method/Media blank
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: IFW MS 2 A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 3
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00510 | 0.001 | 0.00500 | 100 | 75 | 125 | | |
| Ba Barium | 0.2071 | 0.002 | 0.200 | 104 | 75 | 125 | | |
| Be Beryllium | 0.00510 | 0.0005 | 0.00500 | 100 | 75 | 125 | | |
| Cd Cadmium | 0.0104 | 0.001 | 0.0100 | 104 | 75 | 125 | | |
| Co Cobalt | 0.0532 | 0.001 | 0.0500 | 106 | 75 | 125 | | |
| Cr Chromium | 0.0215 | 0.002 | 0.0200 | 108 | 75 | 125 | | |
| Cu Copper | 0.0265 | 0.002 | 0.0250 | 106 | 75 | 125 | | |
| Mo Molybdenum | 0.0422 | 0.002 | 0.0400 | 106 | 75 | 125 | | |
| Ni Nickel | 0.0517 | 0.002 | 0.0500 | 103 | 75 | 125 | | |
| Sb Antimony | 0.0993 | 0.004 | 0.100 | 99.3 | 75 | 125 | | |
| Tl Thallium | 0.0955 | 0.01 | 0.100 | 95.5 | 75 | 125 | | |
| V Vanadium | 0.0524 | 0.001 | 0.0500 | 105 | 75 | 125 | | |
| Zn Zinc | 0.0518 | 0.005 | 0.0500 | 104 | 75 | 125 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MS19076-05A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ:
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00500 | 0.001 | 0.00500 | 100 | 75 | 125 | | |
| Ba Barium | 0.382 | 0.002 | 0.200 | 99.0 | 75 | 125 | | |
| Be Beryllium | 0.00490 | 0.0005 | 0.00500 | 98.0 | 75 | 125 | | |
| Cd Cadmium | 0.00930 | 0.001 | 0.0100 | 93.0 | 75 | 125 | | |
| Co Cobalt | 0.0473 | 0.001 | 0.0500 | 94.6 | 75 | 125 | | |
| Cr Chromium | 0.0195 | 0.002 | 0.0200 | 97.5 | 75 | 125 | | |
| Cu Copper | 0.0262 | 0.002 | 0.0250 | 105 | 75 | 125 | | |
| Mo Molybdenum | 0.0439 | 0.002 | 0.0400 | 93.8 | 75 | 125 | | |
| Ni Nickel | 0.0580 | 0.002 | 0.0500 | 91.2 | 75 | 125 | | |
| Sb Antimony | 0.0911 | 0.004 | 0.100 | 91.1 | 75 | 125 | | |
| Tl Thallium | 0.0977 | 0.01 | 0.100 | 97.7 | 75 | 125 | | |
| V Vanadium | 0.0554 | 0.001 | 0.0500 | 97.4 | 75 | 125 | | |
| Zn Zinc | 0.0579 | 0.005 | 0.0500 | 89.4 | 75 | 125 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: MS29076-05A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ:
 REF SEQ:

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00460 | 0.001 | 0.00500 | 92.0 | 75 | 125 | | |
| Ba Barium | 0.377 | 0.002 | 0.200 | 96.5 | 75 | 125 | | |
| Be Beryllium | 0.00480 | 0.0005 | 0.00500 | 96.0 | 75 | 125 | | |
| Cd Cadmium | 0.00890 | 0.001 | 0.0100 | 89.0 | 75 | 125 | | |
| Co Cobalt | 0.0468 | 0.001 | 0.0500 | 93.6 | 75 | 125 | | |
| Cr Chromium | 0.0193 | 0.002 | 0.0200 | 96.5 | 75 | 125 | | |
| Cu Copper | 0.0255 | 0.002 | 0.0250 | 102 | 75 | 125 | | |
| Mo Molybdenum | 0.0435 | 0.002 | 0.0400 | 92.8 | 75 | 125 | | |
| Ni Nickel | 0.0571 | 0.002 | 0.0500 | 89.4 | 75 | 125 | | |
| Sb Antimony | 0.0899 | 0.004 | 0.100 | 89.9 | 75 | 125 | | |
| Tl Thallium | 0.0904 | 0.01 | 0.100 | 90.4 | 75 | 125 | | |
| V Vanadium | 0.0552 | 0.001 | 0.0500 | 97.0 | 75 | 125 | | |
| Zn Zinc | 0.0576 | 0.005 | 0.0500 | 88.8 | 75 | 125 | | |

WORK ORDER: 9509059

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QUALITY CONTROL REPORT

SPIKE SAMPLES

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: MS19098-09A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 11
 REF SEC: 11

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00410 | 0.001 | 0.00500 | 82.0 | 75 | 125 | | |
| Ba Barium | 0.335 | 0.002 | 0.200 | 91.0 | 75 | 125 | | |
| Be Beryllium | 0.00460 | 0.0005 | 0.00500 | 92.0 | 75 | 125 | | |
| Cd Cadmium | 0.00970 | 0.001 | 0.0100 | 84.0 | 75 | 125 | | |
| Co Cobalt | 0.0484 | 0.001 | 0.0500 | 89.0 | 75 | 125 | | |
| Cr Chromium | 0.0205 | 0.002 | 0.0200 | 103 | 75 | 125 | | |
| Cu Copper | 0.0254 | 0.002 | 0.0250 | 102 | 75 | 125 | | |
| Mo Molybdenum | 0.0375 | 0.002 | 0.0400 | 93.8 | 75 | 125 | | |
| Ni Nickel | 0.0913 | 0.002 | 0.0500 | 87.0 | 75 | 125 | | |
| Sb Antimony | 0.0924 | 0.004 | 0.100 | 92.4 | 75 | 125 | | |
| Tl Thallium | 0.0897 | 0.01 | 0.100 | 89.7 | 75 | 125 | | |
| V Vanadium | 0.0474 | 0.001 | 0.0500 | 91.6 | 75 | 125 | | |
| Zn Zinc | 0.276 | 0.005 | 0.0500 | 78.0 | 75 | 125 | | |

SAMPLE TYPE: Spike-Sample/Matrix
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: MS29098-09A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 11
 REF SEC: 11

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00450 | 0.001 | 0.00500 | 90.0 | 75 | 125 | | |
| Ba Barium | 0.341 | 0.002 | 0.200 | 94.0 | 75 | 125 | | |
| Be Beryllium | 0.00460 | 0.0005 | 0.00500 | 92.0 | 75 | 125 | | |
| Cd Cadmium | 0.0103 | 0.001 | 0.0100 | 90.0 | 75 | 125 | | |
| Co Cobalt | 0.0497 | 0.001 | 0.0500 | 91.6 | 75 | 125 | | |
| Cr Chromium | 0.0195 | 0.002 | 0.0200 | 97.5 | 75 | 125 | | |
| Cu Copper | 0.0256 | 0.002 | 0.0250 | 102 | 75 | 125 | | |
| Mo Molybdenum | 0.0384 | 0.002 | 0.0400 | 96.0 | 75 | 125 | | |
| Ni Nickel | 0.0915 | 0.002 | 0.0500 | 87.4 | 75 | 125 | | |
| Sb Antimony | 0.0944 | 0.004 | 0.100 | 94.4 | 75 | 125 | | |
| Tl Thallium | 0.0858 | 0.01 | 0.100 | 85.8 | 75 | 125 | | |
| V Vanadium | 0.0478 | 0.001 | 0.0500 | 92.4 | 75 | 125 | | |
| Zn Zinc | 0.281 | 0.005 | 0.0500 | 88.0 | 75 | 125 | | |

WORK ORDER: 9509059

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QUALITY CONTROL REPORT

DUPLICATE SAMPLES

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: GFW MD
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 4
 REF SEQ: 2

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0636 | 0.004 | | | | | 3.03 | 13 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9059-03A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 8
 REF SEQ: 6

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0314 | 0.004 | | | | | 18.1 ! | 15 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9098-02A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 13
 REF SEQ: 11

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | ND | 0.004 | | | | | 0 | 15 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Selenium
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 09/30/95

TEST CODE: SE_DG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9127-12A
 INSTR RUN: 4000\950930111100
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 18
 REF SEQ: 16

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Selenium by EPA 270.2 | 0.0672 | 0.004 | | | | | 11.8 | 15 |

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: GFW MD
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 4
 REF SEQ: 2

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0190 | 0.002 | | | | | 3.75 | 14 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: MD 9098-02A
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 13
 REF SEQ: 11

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0125 | 0.002 | | | | | 21.2 ! | 16 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Lead
 INSTRUMENT: TJA 4000, GFAA
 ANALYZED: 10/01/95

TEST CODE: PB_WG
 UNITS: mg/L
 PREPARED: 09/14/95
 BLANK:
 TUNE:

SAMPLE ID: MD 9127-12A
 INSTR RUN: 4000\951001143700
 DILUTION: 1.000000
 BATCH ID: GFW091495-T
 STANDARD:

SEQ: 18
 REF SEQ: 16

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Lead in water by GFAA | 0.0186 | 0.002 | | | | | 3.84 | 16 |

WORK ORDER: 9509059

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QUALITY CONTROL REPORT

DUPLICATE SAMPLES

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGW MD
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 4
 REF SEQ: 2

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00204 | 0.0002 | | | | | 0 | 8 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD09076-01A
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 8
 REF SEQ: 7

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00207 | 0.0002 | | | | | 0 | 6 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG
 UNITS: mg/L
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9110-04A
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGW091595
 STANDARD:

SEQ: 11
 REF SEQ: 10

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in water/EPA 7470 | 0.00207 | 0.0002 | | | | | 2.94 | 6 |

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_S
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: HGS MD
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 15
 REF SEQ: 13

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | 0.414 | 0.06 | | | | | 1.46 | 7 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: Mercury
 INSTRUMENT: Coleman Hg Analyzer 50D
 ANALYZED: 09/15/95

TEST CODE: HG_S
 UNITS: mg/kg
 PREPARED:
 BLANK:
 TUNE:

SAMPLE ID: MD 9095-03A
 INSTR RUN: HG\950915000000
 DILUTION: 1.000000
 BATCH ID: HGS091595
 STANDARD:

SEQ: 18
 REF SEQ: 17

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|--------------------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Mercury in soil/EPA 7471 | 0.650 | 0.06 | | | | | 1.38 | 15 |

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/15/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/13/95
 BLANK:
 TUNE:

SAMPLE ID: IFW MD 0
 INSTR RUN: ICPT950915173800
 DILUTION: 5
 BATCH ID: IFW091395-0
 STANDARD:

SEQ: 4
 REF SEQ: 2

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|--------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.0250 | 0.005 | | | | | 7.04 | 15 |
| Ba Barium | 1.07 | 0.01 | | | | | 4.78 | 15 |
| Be Beryllium | 0.0268 | 0.003 | | | | | 8.16 | 15 |
| Cd Cadmium | 0.0563 | 0.005 | | | | | 10.1 | 15 |
| Co Cobalt | 0.273 | 0.005 | | | | | 4.88 | 15 |
| Cr Chromium | 0.103 | 0.01 | | | | | 4.74 | 15 |
| Cu Copper | 0.136 | 0.01 | | | | | 2.99 | 15 |
| Mo Molybdenum | 0.215 | 0.01 | | | | | 5.74 | 15 |
| Ni Nickel | 0.267 | 0.01 | | | | | 5.38 | 15 |
| Sb Antimony | 0.499 | 0.02 | | | | | 3.26 | 15 |
| Tl Thallium | 0.551 | 0.05 | | | | | 5.41 | 15 |
| V Vanadium | 0.269 | 0.005 | | | | | 4.17 | 15 |
| Zn Zinc | 0.269 | 0.03 | | | | | 2.26 | 15 |

WORK ORDER: 9509059

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QUALITY CONTROL REPORT

DUPLICATE SAMPLES

SAMPLE TYPE: Method Spike Sample Duplicate
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: IFW MD A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 4
 REF SEQ: 2

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00510 | 0.001 | | | | | 4.00 | 15 |
| Ba Barium | 0.2071 | 0.002 | | | | | 0.5778 | 15 |
| Be Beryllium | 0.00510 | 0.0005 | | | | | 0 | 15 |
| Cd Cadmium | 0.0104 | 0.001 | | | | | 2.84 | 15 |
| Co Cobalt | 0.0532 | 0.001 | | | | | 0.749 | 15 |
| Cr Chromium | 0.0215 | 0.002 | | | | | 4.10 | 15 |
| Cu Copper | 0.0265 | 0.002 | | | | | 0 | 15 |
| Mo Molybdenum | 0.0422 | 0.002 | | | | | 0 | 15 |
| Ni Nickel | 0.0517 | 0.002 | | | | | 1.15 | 15 |
| Sb Antimony | 0.0993 | 0.004 | | | | | 0.702 | 15 |
| Tl Thallium | 0.0955 | 0.01 | | | | | 5.50 | 15 |
| V Vanadium | 0.0524 | 0.001 | | | | | 0.760 | 15 |
| Zn Zinc | 0.0518 | 0.01 | | | | | 0.577 | 15 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: MD 9076-05A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 8
 REF SEQ: 6

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00460 | 0.001 | | | | | 8.33 | 15 |
| Ba Barium | 0.377 | 0.002 | | | | | 1.32 | 15 |
| Be Beryllium | 0.00480 | 0.0005 | | | | | 2.06 | 15 |
| Cd Cadmium | 0.00890 | 0.001 | | | | | 4.40 | 15 |
| Co Cobalt | 0.0468 | 0.001 | | | | | 1.06 | 15 |
| Cr Chromium | 0.0193 | 0.002 | | | | | 1.03 | 15 |
| Cu Copper | 0.0255 | 0.002 | | | | | 2.71 | 15 |
| Mo Molybdenum | 0.0435 | 0.002 | | | | | 0.915 | 15 |
| Ni Nickel | 0.0571 | 0.002 | | | | | 1.56 | 15 |
| Sb Antimony | 0.0899 | 0.004 | | | | | 1.33 | 15 |
| Tl Thallium | 0.0904 | 0.01 | | | | | 7.76 | 15 |
| V Vanadium | 0.0552 | 0.001 | | | | | 0.362 | 15 |
| Zn Zinc | 0.0576 | 0.01 | | | | | 0.519 | 15 |

SAMPLE TYPE: Spiked Sample Duplicate
 ANALYSIS: CCR 17 Metals (Low Level)
 INSTRUMENT: TJA Enviro 36
 ANALYZED: 09/19/95

TEST CODE: CM17LL
 UNITS: mg/L
 PREPARED: 09/17/95
 BLANK:
 TUNE:

SAMPLE ID: MD 9098-09A
 INSTR RUN: ICP\950919102700
 DILUTION: 1.000000
 BATCH ID: IFW091795-A
 STANDARD:

SEQ: 14
 REF SEQ: 12

| ANALYTE | RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|---------------|---------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | LOW | HIGH | | |
| Ag Silver | 0.00450 | 0.001 | | | | | 9.30 | 15 |
| Ba Barium | 0.341 | 0.002 | | | | | 1.78 | 15 |
| Be Beryllium | 0.00460 | 0.0005 | | | | | 0 | 15 |
| Cd Cadmium | 0.0103 | 0.001 | | | | | 6.00 | 15 |
| Co Cobalt | 0.0497 | 0.001 | | | | | 2.65 | 15 |
| Cr Chromium | 0.0195 | 0.002 | | | | | 5.00 | 15 |
| Cu Copper | 0.0254 | 0.002 | | | | | 0 | 15 |
| Mo Molybdenum | 0.0384 | 0.002 | | | | | 2.37 | 15 |
| Ni Nickel | 0.0915 | 0.002 | | | | | 0.219 | 15 |
| Sb Antimony | 0.0944 | 0.004 | | | | | 2.14 | 15 |
| Tl Thallium | 0.0858 | 0.01 | | | | | 4.44 | 15 |
| V Vanadium | 0.0478 | 0.001 | | | | | 0.840 | 15 |
| Zn Zinc | 0.281 | 0.01 | | | | | 1.80 | 15 |

----- End of Quality Control Report -----

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9509059

Project No.: 3018.95.20 Field Logbook No.: Date: 9/6/95 Serial No.:

Project Name: Volvo / GM Project Location: OAKLAND CA. No: 013747

Sampler (Signature): *JC Kule* ANALYSES Samplers: JCK

| SAMPLES | | | | | ANALYSES | | | | | | | REMARKS |
|------------|--------|------|----------------|--------------------|-------------|---------|---------|-----------------|------|------|---------------------------|---------|
| SAMPLE NO. | DATE | TIME | LAB SAMPLE NO. | NO. OF CON-TAINERS | SAMPLE TYPE | EPA 601 | EPA 624 | TITLE 22 METALS | HOLD | RUSH | | |
| MW-1 | 9/5/95 | | O1A | 1 | H2O | | | X | | | STD TAT | |
| MW-2 | 9/5/95 | | DZA | 1 | ↓ | | | X | | | | |
| MW-3 | 9/5/95 | | D3A | 1 | ↓ | | | X | | | TITLE 22 METALS | |
| | | | | | | | | | | | BASELINE DETECTION LIMITS | |
| | | | | | | | | | | | FIELD FILTERED | |
| | | | | | | | | | | | Jennifer Beatty? | |

| | | | | | |
|---|--------------|-------------|-------------------------------------|--------------|-------------|
| RELINQUISHED BY: <i>JC Kule</i> | DATE: 9/6/95 | TIME: 15:00 | RECEIVED BY: <i>Michael E. Kule</i> | DATE: 9/6/95 | TIME: 15:00 |
| RELINQUISHED BY: <i>Michael E. Kule</i> | DATE: 9/6/95 | TIME: 15:40 | RECEIVED BY: <i>Jana Miller</i> | DATE: 9/6/95 | TIME: 15:40 |
| RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature) | DATE | TIME |

METHOD OF SHIPMENT: DATE TIME LAB COMMENTS:

Sample Collector: LEVINE-FRICKE
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500

Analytical Laboratory: AEN
PLEASANT HILL, CA.

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

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

REPORT DATE: 10/13/95

DATE(S) SAMPLED: 09/07/95

DATE RECEIVED: 09/08/95

ATTN: JOHN KEELER
CLIENT PROJ. ID: 3018.95.20
CLIENT PROJ. NAME: VOLVO/GM
C.O.C. NUMBER: 013752

AEN WORK ORDER: 9509098

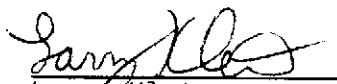
PROJECT SUMMARY:

On September 8, 1995, this laboratory received 10 water sample(s).

Client requested sample(s) be analyzed for inorganic and organic 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

Revision of report dated 10/09/95

LEVINE-FRICKE

SAMPLE ID: LF-5
 AEN LAB NO: 9509098-01A
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|-----------|--------------------|-------------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver | EPA 200.7 | 0.004 * | 0.001 mg/L | 09/19/95 |
| As | Arsenic | EPA 206.2 | ND | 0.005 mg/L | 09/30/95 |
| Ba | Barium | EPA 200.7 | 0.014 * | 0.002 mg/L | 09/19/95 |
| Be | Beryllium | EPA 200.7 | ND | 0.0005 mg/L | 09/19/95 |
| Cd | Cadmium | EPA 200.7 | 0.31 * | 0.001 mg/L | 09/19/95 |
| Co | Cobalt | EPA 200.7 | 1.5 * | 0.001 mg/L | 09/19/95 |
| Cr | Chromium | EPA 200.7 | 0.006 * | 0.002 mg/L | 09/19/95 |
| Cu | Copper | EPA 200.7 | 0.005 * | 0.002 mg/L | 09/19/95 |
| Hg | Mercury | EPA 245.1 | ND | 0.0002 mg/L | 09/17/95 |
| Mo | Molybdenum | EPA 200.7 | ND | 0.002 mg/L | 09/19/95 |
| Ni | Nickel | EPA 200.7 | 4.8 * | 0.002 mg/L | 09/19/95 |
| Pb | Lead | EPA 239.2 | ND | 0.01 mg/L | 10/01/95 |
| Sb | Antimony | EPA 200.7 | ND | 0.004 mg/L | 09/19/95 |
| Se | Selenium | EPA 270.2 | ND | 0.004 mg/L | 09/30/95 |
| Tl | Thallium | EPA 200.7 | 0.04 * | 0.01 mg/L | 09/19/95 |
| V | Vanadium | EPA 200.7 | ND | 0.001 mg/L | 09/19/95 |
| Zn | Zinc | EPA 200.7 | 38 * | 0.01 mg/L | 09/20/95 |

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

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-10
 AEN LAB NO: 9509098-02A
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| As Arsenic | EPA 206.2 | ND | 0.005 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | 0.016 * | 0.002 | mg/L | 09/19/95 |
| Be Beryllium | EPA 200.7 | ND | 0.0005 | mg/L | 09/19/95 |
| Cd Cadmium | EPA 200.7 | 0.002 * | 0.001 | mg/L | 09/19/95 |
| Co Cobalt | EPA 200.7 | 0.007 * | 0.001 | mg/L | 09/19/95 |
| Cr Chromium | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Cu Copper | EPA 200.7 | 0.007 * | 0.002 | mg/L | 09/19/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/17/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Ni Nickel | EPA 200.7 | 0.083 * | 0.002 | mg/L | 09/19/95 |
| Pb Lead | EPA 239.2 | ND | 0.01 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.004 | mg/L | 09/19/95 |
| Se Selenium | EPA 270.2 | ND | 0.01 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | ND | 0.01 | mg/L | 09/19/95 |
| V Vanadium | EPA 200.7 | 0.005 * | 0.001 | mg/L | 09/19/95 |
| Zn Zinc | EPA 200.7 | 0.29 * | 0.01 | mg/L | 09/19/95 |

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

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-8
AEN LAB NO: 9509098-03A
AEN WORK ORDER: 9509098
CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
DATE RECEIVED: 09/08/95
REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|--------|--------------------|-------|------------------|
| BTEX & Gasoline HCs | EPA 8020 | | | | |
| Benzene | 71-43-2 | 1 * | 0.5 | ug/L | 09/18/95 |
| Toluene | 108-88-3 | 0.6 * | 0.5 | ug/L | 09/18/95 |
| Ethylbenzene | 100-41-4 | 3 * | 0.5 | ug/L | 09/18/95 |
| Xylenes, Total | 1330-20-7 | 3 * | 2 | ug/L | 09/18/95 |
| Purgeable HCs as Gasoline | 5030/GCFID | 0.4 * | 0.05 | mg/L | 09/18/95 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-8
 AEN LAB NO: 9509098-03D
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for TPH | EPA 3510 | - | | Extrn Date | 09/18/95 |
| TPH as Diesel | GC-FID | 4.7 * | 0.05 | mg/L | 09/19/95 |
| TPH as Oil | GC-FID | 0.3 * | 0.2 | mg/L | 09/19/95 |

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-8
 AEN LAB NO: 9509098-03F
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| As Arsenic | EPA 206.2 | 2.4 * | 0.1 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | 0.092 * | 0.002 | mg/L | 09/19/95 |
| Be Beryllium | EPA 200.7 | ND | 0.0005 | mg/L | 09/19/95 |
| Cd Cadmium | EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| Co Cobalt | EPA 200.7 | 0.001 * | 0.001 | mg/L | 09/19/95 |
| Cr Chromium | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Cu Copper | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/17/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Ni Nickel | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Pb Lead | EPA 239.2 | ND | 0.002 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.004 | mg/L | 09/19/95 |
| Se Selenium | EPA 270.2 | ND | 0.2 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | ND | 0.01 | mg/L | 09/19/95 |
| V Vanadium | EPA 200.7 | 0.003 * | 0.001 | mg/L | 09/19/95 |
| Zn Zinc | EPA 200.7 | 0.02 * | 0.01 | mg/L | 09/19/95 |

Reporting limit elevated for selenium due to matrix interference.

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-8
 AEN LAB NO: 9509098-03G
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for BNAs | EPA 3520 | - | | Extrn Date | 09/13/95 |
| Semi-Volatile Organics | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | 690 * | 10 | ug/L | 09/30/95 |
| Acenaphthylene | 208-96-8 | 15 * | 10 | ug/L | 09/20/95 |
| Anthracene | 120-12-7 | 41 * | 10 | ug/L | 09/20/95 |
| Benzdine | 92-87-5 | ND | 50 | ug/L | 09/20/95 |
| Benzoic Acid | 65-85-0 | ND | 50 | ug/L | 09/20/95 |
| Benzo(a)anthracene | 56-55-3 | ND | 10 | ug/L | 09/20/95 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 10 | ug/L | 09/20/95 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 10 | ug/L | 09/20/95 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 10 | ug/L | 09/20/95 |
| Benzo(a)pyrene | 50-32-8 | ND | 10 | ug/L | 09/20/95 |
| Benzyl Alcohol | 100-51-6 | ND | 20 | ug/L | 09/20/95 |
| Bis(2-chloroethoxy)methane | 111-91-1 | ND | 10 | ug/L | 09/20/95 |
| Bis(2-chloroethyl) Ether | 111-44-4 | ND | 10 | ug/L | 09/20/95 |
| Bis(2-chloroisopropyl) Ether | 108-60-1 | ND | 10 | ug/L | 09/20/95 |
| Bis(2-ethylhexyl) Phthalate | 117-81-7 | 21 * | 10 | ug/L | 09/20/95 |
| 4-Bromophenyl Phenyl Ether | 101-55-3 | ND | 10 | ug/L | 09/20/95 |
| Butylbenzyl Phthalate | 85-68-7 | ND | 10 | ug/L | 09/20/95 |
| 4-Chloroaniline | 106-47-8 | ND | 20 | ug/L | 09/20/95 |
| 2-Chloronaphthalene | 91-58-7 | ND | 10 | ug/L | 09/20/95 |
| 4-Chlorophenyl Phenyl Ether | 7005-72-3 | ND | 10 | ug/L | 09/20/95 |
| Chrysene | 218-01-9 | ND | 10 | ug/L | 09/20/95 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 10 | ug/L | 09/20/95 |
| Dibenzofuran | 132-64-9 | 200 * | 10 | ug/L | 09/20/95 |
| Di-n-butyl Phthalate | 84-74-2 | ND | 10 | ug/L | 09/20/95 |
| 1,2-Dichlorobenzene | 95-50-1 | ND | 10 | ug/L | 09/20/95 |
| 1,3-Dichlorobenzene | 541-73-1 | ND | 10 | ug/L | 09/20/95 |
| 1,4-Dichlorobenzene | 106-46-7 | ND | 10 | ug/L | 09/20/95 |
| 3,3'-Dichlorobenzidine | 91-94-1 | ND | 20 | ug/L | 09/20/95 |
| Diethyl Phthalate | 84-66-2 | ND | 10 | ug/L | 09/20/95 |
| Dimethyl Phthalate | 131-11-3 | ND | 10 | ug/L | 09/20/95 |
| 2,4-Dinitrotoluene | 121-14-2 | ND | 10 | ug/L | 09/20/95 |
| 2,6-Dinitrotoluene | 606-20-2 | ND | 10 | ug/L | 09/20/95 |
| Di-n-octyl Phthalate | 117-84-0 | ND | 10 | ug/L | 09/20/95 |
| Fluoranthene | 206-44-0 | 32 * | 10 | ug/L | 09/20/95 |
| Fluorene | 86-73-7 | 170 * | 10 | ug/L | 09/20/95 |
| Hexachlorobenzene | 118-74-1 | ND | 10 | ug/L | 09/20/95 |
| Hexachlorobutadiene | 87-68-3 | ND | 10 | ug/L | 09/20/95 |
| Hexachlorocyclopentadiene | 77-47-4 | ND | 10 | ug/L | 09/20/95 |
| Hexachloroethane | 67-72-1 | ND | 10 | ug/L | 09/20/95 |

LEVINE-FRICKE

SAMPLE ID: LF-8
 AEN LAB NO: 9509098-03G
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|----------------------------|-----------------|--------|--------------------|-------|------------------|
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 10 | ug/L | 09/20/95 |
| Isophorone | 78-59-1 | ND | 10 | ug/L | 09/20/95 |
| 2-Methylnaphthalene | 91-57-6 | ND | 10 | ug/L | 09/20/95 |
| Naphthalene | 91-20-3 | 13 * | 10 | ug/L | 09/20/95 |
| 2-Nitroaniline | 88-74-4 | ND | 50 | ug/L | 09/20/95 |
| 3-Nitroaniline | 99-09-2 | ND | 50 | ug/L | 09/20/95 |
| 4-Nitroaniline | 100-01-6 | ND | 50 | ug/L | 09/20/95 |
| Nitrobenzene | 98-95-3 | ND | 10 | ug/L | 09/20/95 |
| N-Nitrosodiphenylamine | 86-30-6 | ND | 10 | ug/L | 09/20/95 |
| N-Nitrosodi-n-propylamine | 621-64-7 | ND | 10 | ug/L | 09/20/95 |
| Phenanthrene | 85-01-8 | ND | 10 | ug/L | 09/20/95 |
| Pyrene | 129-00-0 | 19 * | 10 | ug/L | 09/20/95 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | 10 | ug/L | 09/20/95 |
| 4-Chloro-3-methylphenol | 59-50-7 | ND | 10 | ug/L | 09/20/95 |
| 2-Chlorophenol | 95-57-8 | ND | 10 | ug/L | 09/20/95 |
| 2,4-Dichlorophenol | 120-83-2 | ND | 10 | ug/L | 09/20/95 |
| 2,4-Dimethylphenol | 105-67-9 | ND | 10 | ug/L | 09/20/95 |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ND | 50 | ug/L | 09/20/95 |
| 2,4-Dinitrophenol | 51-28-5 | ND | 50 | ug/L | 09/20/95 |
| 2-Methylphenol | 95-48-7 | ND | 10 | ug/L | 09/20/95 |
| 4-Methylphenol | 106-44-5 | ND | 10 | ug/L | 09/20/95 |
| 2-Nitrophenol | 88-75-5 | ND | 10 | ug/L | 09/20/95 |
| 4-Nitrophenol | 100-02-7 | ND | 50 | ug/L | 09/20/95 |
| Pentachlorophenol | 87-86-5 | ND | 50 | ug/L | 09/20/95 |
| Phenol | 108-95-2 | ND | 10 | ug/L | 09/20/95 |
| 2,4,5-Trichlorophenol | 95-95-4 | ND | 10 | ug/L | 09/20/95 |
| 2,4,6-Trichlorophenol | 88-06-2 | ND | 10 | ug/L | 09/20/95 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-3
AEN LAB NO: 9509098-04A
AEN WORK ORDER: 9509098
CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
DATE RECEIVED: 09/08/95
REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|--------|--------------------|-------|------------------|
| BTEX & Gasoline HCs | EPA 8020 | | | | |
| Benzene | 71-43-2 | ND | 0.5 | ug/L | 09/18/95 |
| Toluene | 108-88-3 | ND | 0.5 | ug/L | 09/18/95 |
| Ethylbenzene | 100-41-4 | ND | 0.5 | ug/L | 09/18/95 |
| Xylenes, Total | 1330-20-7 | ND | 2 | ug/L | 09/18/95 |
| Purgeable HCs as Gasoline | 5030/GCFID | ND | 0.05 | mg/L | 09/18/95 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-3
 AEN LAB NO: 9509098-04D
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for TPH | EPA 3510 | - | | Extrn Date | 09/18/95 |
| TPH as Diesel | GC-FID | 0.62 * | 0.05 | mg/L | 09/19/95 |
| TPH as Oil | GC-FID | 0.4 * | 0.2 | mg/L | 09/19/95 |

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-3
 AEN LAB NO: 9509098-04F
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|----------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| As Arsenic | EPA 206.2 | 3.0 * | 0.1 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | 0.13 * | 0.002 | mg/L | 09/19/95 |
| Be Beryllium | EPA 200.7 | 0.0017 * | 0.0005 | mg/L | 09/19/95 |
| Cd Cadmium | EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| Co Cobalt | EPA 200.7 | 0.011 * | 0.001 | mg/L | 09/19/95 |
| Cr Chromium | EPA 200.7 | 0.004 * | 0.002 | mg/L | 09/19/95 |
| Cu Copper | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/17/95 |
| Mo Molybdenum | EPA 200.7 | 0.12 * | 0.002 | mg/L | 09/19/95 |
| Ni Nickel | EPA 200.7 | 0.008 * | 0.002 | mg/L | 09/19/95 |
| Pb Lead | EPA 239.2 | ND | 0.002 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.004 | mg/L | 09/19/95 |
| Se Selenium | EPA 270.2 | ND | 0.2 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | 0.02 * | 0.01 | mg/L | 09/19/95 |
| V Vanadium | EPA 200.7 | 0.013 * | 0.001 | mg/L | 09/19/95 |
| Zn Zinc | EPA 200.7 | 5.4 * | 0.01 | mg/L | 09/19/95 |

Reporting limit elevated for selenium due to matrix interference.

ND = Not detected at or above the reporting limit
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LEVINE-FRICKE

SAMPLE ID: LF-1
 AEN LAB NO: 9509098-05A
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|----------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/13/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.05 | mg/L | 09/15/95 |
| As Arsenic | EPA 206.2 | 0.30 * | 0.05 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | ND | 0.1 | mg/L | 09/15/95 |
| Be Beryllium | EPA 200.7 | 0.03 * | 0.02 | mg/L | 09/15/95 |
| Cd Cadmium | EPA 200.7 | 23 * | 0.05 | mg/L | 09/15/95 |
| Co Cobalt | EPA 200.7 | 2.0 * | 0.05 | mg/L | 09/15/95 |
| Cr Chromium | EPA 200.7 | ND | 0.1 | mg/L | 09/15/95 |
| Cu Copper | EPA 200.7 | 0.5 * | 0.1 | mg/L | 09/15/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/17/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.1 | mg/L | 09/15/95 |
| Ni Nickel | EPA 200.7 | 7.3 * | 0.1 | mg/L | 09/15/95 |
| Pb Lead | EPA 239.2 | 0.67 * | 0.05 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.2 | mg/L | 09/15/95 |
| Se Selenium | EPA 270.2 | ND | 0.1 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | 0.6 * | 0.5 | mg/L | 09/15/95 |
| V Vanadium | EPA 200.7 | ND | 0.05 | mg/L | 09/15/95 |
| Zn Zinc | EPA 200.7 | 10,000 * | 1 | mg/L | 09/15/95 |

Reporting limits elevated due to matrix interference.

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-11
 AEN LAB NO: 9509098-06A
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|----------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/13/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.5 | mg/L | 09/15/95 |
| As Arsenic | EPA 206.2 | ND | 0.01 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | ND | 1 | mg/L | 09/15/95 |
| Be Beryllium | EPA 200.7 | ND | 0.2 | mg/L | 09/15/95 |
| Cd Cadmium | EPA 200.7 | 120 * | 0.5 | mg/L | 09/15/95 |
| Co Cobalt | EPA 200.7 | 6.5 * | 0.5 | mg/L | 09/15/95 |
| Cr Chromium | EPA 200.7 | ND | 1 | mg/L | 09/15/95 |
| Cu Copper | EPA 200.7 | 5 * | 1 | mg/L | 09/15/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/17/95 |
| Mo Molybdenum | EPA 200.7 | ND | 1 | mg/L | 09/15/95 |
| Ni Nickel | EPA 200.7 | 26 * | 1 | mg/L | 09/15/95 |
| Pb Lead | EPA 239.2 | 0.04 * | 0.02 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 2 | mg/L | 09/15/95 |
| Se Selenium | EPA 270.2 | ND | 0.02 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | ND | 5 | mg/L | 09/15/95 |
| V Vanadium | EPA 200.7 | ND | 0.5 | mg/L | 09/15/95 |
| Zn Zinc | EPA 200.7 | 37,000 * | 3 | mg/L | 09/15/95 |

Reporting limits elevated due to matrix interference.

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-F1
 AEN LAB NO: 9509098-07A
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| As Arsenic | EPA 206.2 | 0.09 * | 0.01 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | 0.020 * | 0.002 | mg/L | 09/19/95 |
| Be Beryllium | EPA 200.7 | ND | 0.0005 | mg/L | 09/19/95 |
| Cd Cadmium | EPA 200.7 | 0.038 * | 0.001 | mg/L | 09/19/95 |
| Co Cobalt | EPA 200.7 | 0.11 * | 0.001 | mg/L | 09/19/95 |
| Cr Chromium | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Cu Copper | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/17/95 |
| Mo Molybdenum | EPA 200.7 | 0.011 * | 0.002 | mg/L | 09/19/95 |
| Ni Nickel | EPA 200.7 | 0.076 * | 0.002 | mg/L | 09/19/95 |
| Pb Lead | EPA 239.2 | ND | 0.002 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.004 | mg/L | 09/19/95 |
| Se Selenium | EPA 270.2 | ND | 0.02 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | ND | 0.01 | mg/L | 09/19/95 |
| V Vanadium | EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| Zn Zinc | EPA 200.7 | 17 * | 0.01 | mg/L | 09/19/95 |

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

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-122
 AEN LAB NO: 9509098-08A
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-------------------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag | Silver EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| As | Arsenic EPA 206.2 | ND | 0.002 | mg/L | 09/30/95 |
| Ba | Barium EPA 200.7 | 0.020 * | 0.002 | mg/L | 09/19/95 |
| Be | Beryllium EPA 200.7 | ND | 0.0005 | mg/L | 09/19/95 |
| Cd | Cadmium EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| Co | Cobalt EPA 200.7 | 0.042 * | 0.001 | mg/L | 09/19/95 |
| Cr | Chromium EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Cu | Copper EPA 200.7 | 0.005 * | 0.002 | mg/L | 09/19/95 |
| Hg | Mercury EPA 245.1 | ND | 0.0002 | mg/L | 09/17/95 |
| Mo | Molybdenum EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Ni | Nickel EPA 200.7 | 0.027 * | 0.002 | mg/L | 09/19/95 |
| Pb | Lead EPA 239.2 | ND | 0.002 | mg/L | 10/01/95 |
| Sb | Antimony EPA 200.7 | ND | 0.004 | mg/L | 09/19/95 |
| Se | Selenium EPA 270.2 | ND | 0.004 | mg/L | 09/30/95 |
| Tl | Thallium EPA 200.7 | ND | 0.01 | mg/L | 09/19/95 |
| V | Vanadium EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| Zn | Zinc EPA 200.7 | 0.50 * | 0.01 | mg/L | 09/19/95 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-4
 AEN LAB NO: 9509098.09A
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| As Arsenic | EPA 206.2 | 0.012 * | 0.002 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | 0.15 * | 0.002 | mg/L | 09/19/95 |
| Be Beryllium | EPA 200.7 | ND | 0.0005 | mg/L | 09/19/95 |
| Cd Cadmium | EPA 200.7 | 0.001 * | 0.001 | mg/L | 09/19/95 |
| Co Cobalt | EPA 200.7 | 0.004 * | 0.001 | mg/L | 09/19/95 |
| Cr Chromium | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Cu Copper | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/17/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Ni Nickel | EPA 200.7 | 0.048 * | 0.002 | mg/L | 09/19/95 |
| Pb Lead | EPA 239.2 | ND | 0.002 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.004 | mg/L | 09/19/95 |
| Se Selenium | EPA 270.2 | ND | 0.004 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | ND | 0.01 | mg/L | 09/19/95 |
| V Vanadium | EPA 200.7 | 0.002 * | 0.001 | mg/L | 09/19/95 |
| Zn Zinc | EPA 200.7 | 0.24 * | 0.01 | mg/L | 09/19/95 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

LEVINE-FRICKE

SAMPLE ID: LF-22
 AEN LAB NO: 9509098-10A
 AEN WORK ORDER: 9509098
 CLIENT PROJ. ID: 3018.95.20

DATE SAMPLED: 09/07/95
 DATE RECEIVED: 09/08/95
 REPORT DATE: 10/13/95

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|---------------------------|-----------------|---------|--------------------|-----------|------------------|
| #Digestion/G. Furnace | EPA 200.0 | - | | Prep Date | 09/14/95 |
| #Digestion/ICP | EPA 200.0 | - | | Prep Date | 09/17/95 |
| CCR 17 Metals (Low Level) | | | | | |
| Ag Silver | EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| As Arsenic | EPA 206.2 | ND | 0.002 | mg/L | 09/30/95 |
| Ba Barium | EPA 200.7 | 0.019 * | 0.002 | mg/L | 09/19/95 |
| Be Beryllium | EPA 200.7 | ND | 0.0005 | mg/L | 09/19/95 |
| Cd Cadmium | EPA 200.7 | 0.001 * | 0.001 | mg/L | 09/19/95 |
| Co Cobalt | EPA 200.7 | 0.040 * | 0.001 | mg/L | 09/19/95 |
| Cr Chromium | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Cu Copper | EPA 200.7 | 0.004 * | 0.002 | mg/L | 09/19/95 |
| Hg Mercury | EPA 245.1 | ND | 0.0002 | mg/L | 09/17/95 |
| Mo Molybdenum | EPA 200.7 | ND | 0.002 | mg/L | 09/19/95 |
| Ni Nickel | EPA 200.7 | 0.032 * | 0.002 | mg/L | 09/19/95 |
| Pb Lead | EPA 239.2 | ND | 0.002 | mg/L | 10/01/95 |
| Sb Antimony | EPA 200.7 | ND | 0.004 | mg/L | 09/19/95 |
| Se Selenium | EPA 270.2 | ND | 0.004 | mg/L | 09/30/95 |
| Tl Thallium | EPA 200.7 | ND | 0.01 | mg/L | 09/19/95 |
| V Vanadium | EPA 200.7 | ND | 0.001 | mg/L | 09/19/95 |
| Zn Zinc | EPA 200.7 | 0.50 * | 0.01 | mg/L | 09/19/95 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9509098

CLIENT PROJECT ID: 3018.95.20

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: 9509098
AEN LAB NO: 0918-BLANK
DATE EXTRACTED: 09/18/95
DATE ANALYZED: 09/19/95
INSTRUMENT: C
MATRIX: WATER

Method Blank

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

QUALITY CONTROL DATA
METHOD: EPA 3510 GCFID

AEN JOB NO: 9509098
DATE EXTRACTED: 09/18/95
INSTRUMENT: C
MATRIX: WATER

Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery n-Pentacosane |
|---------------|------------|---------|-----------------------------------|
| 09/19/95 | LF-8 | 03 | 105 |
| 09/19/95 | LF-3 | 04 | 88 |
| QC Limits: | | | 59-118 |

DATE EXTRACTED: 09/18/95
DATE ANALYZED: 09/18/95
SAMPLE SPIKED: DI WATER
INSTRUMENT: C

Method Spike Recovery Summary

| Analyte | Spike Added (mg/L) | Average Percent Recovery | RPD | QC Limits | |
|---------|-----------------------|--------------------------------|-----|---------------------|-----|
| | | | | Percent Recovery | RPD |
| Diesel | 2.07 | 80 | <1 | 65-103 | 12 |

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9509098
AEN LAB NO: 0918-BLANK
DATE ANALYZED: 09/18/95
INSTRUMENT: H
MATRIX: WATER

Method Blank

| | CAS # | Result (ug/L) | Reporting Limit (ug/L) |
|-----------------|-----------|------------------|------------------------------|
| Benzene | 71-43-2 | ND | 0.5 |
| Toluene | 108-88-3 | ND | 0.5 |
| Ethylbenzene | 100-41-4 | ND | 0.5 |
| Xylenes, Total | 1330-20-7 | ND | 2 |
| HCs as Gasoline | | ND mg/L | 0.05 mg/L |

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9509098
 INSTRUMENT: H
 MATRIX: WATER

Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery | |
|---------------|------------|---------|------------------|--|
| | | | Fluorobenzene | |
| 09/18/95 | LF-8 | 03 | 99 | |
| 09/18/95 | LF-3 | 04 | 100 | |
| QC Limits: | | | 92-109 | |

DATE ANALYZED: 09/18/95
 SAMPLE SPIKED: LCS
 INSTRUMENT: H

Laboratory Control Sample Recovery

| Analyte | Spike Added (ug/L) | Average Percent Recovery | RPD | QC Limits | |
|--------------------------|--------------------|--------------------------|-----|------------------|-----|
| | | | | Percent Recovery | RPD |
| Benzene | 35.4 | 98 | 7 | 60-120 | 20 |
| Toluene | 108 | 97 | 10 | 60-120 | 20 |
| Hydrocarbons as Gasoline | 1000 | 105 | 10 | 60-120 | 20 |

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9509098
 AEN LAB NO: 0913-BLANK
 DATE EXTRACTED: 09/13/95
 DATE ANALYZED: 09/20/95
 INSTRUMENT: 11
 MATRIX: WATER

Semi-Volatile Organic Compounds
 GC/MS Extractables

| Analyte | CAS # | Result (ug/L) | Reporting Limit (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: 9509098
 AEN LAB NO: 0913-BLANK
 DATE EXTRACTED: 09/13/95
 DATE ANALYZED: 09/20/95
 INSTRUMENT: 11
 MATRIX: WATER

GC/MS Extractables (Cont.)

| Analyte | CAS # | Result (ug/L) | Reporting Limit (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: 9509098
 DATE EXTRACTED: 09/13/95
 INSTRUMENT: 11
 MATRIX: WATER

Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery | | | | | |
|---------------|------------|---------|------------------|-----------------------|------------------------------|-------------------|-----------------------|---------------------------|
| | | | 2-Fluoro-phenol | Phenol-d ₅ | Nitro-benzene-d ₅ | 2-Fluoro-biphenyl | 2,4,6-Tri-bromophenol | Terphenyl-d ₁₄ |
| 09/20/95 | LF-8 | 03 | 59 | 87 | 96 | 107 | 118 | 93 |
| QC Limits: | | | 21-100 | 10-94 | 35-114 | 43-116 | 10-123 | 33-141 |

DATE EXTRACTED: 09/13/95
 DATE ANALYZED: 09/20/95
 SAMPLE SPIKED: LCS
 INSTRUMENT: 11

Laboratory Control Sample Recovery

| Analyte | Spike Added (ug/L) | Percent Recovery | QC Limits |
|---------------------------|--------------------|------------------|------------------|
| | | | Percent Recovery |
| Phenol | 220 | 86 | 5-112 |
| 2-Chlorophenol | 209 | 131 | 23-134 |
| 1,4-Dichlorobenzene | 208 | 55 | 20-124 |
| N-Nitrosodi-n-propylamine | 212 | 154 | 0-230 |
| 1,2,4-Trichlorobenzene | 209 | 63 | 44-142 |
| 4-Chloro-3-methylphenol | 205 | 143 | 22-147 |
| Acenaphthene | 202 | 101 | 47-145 |
| 4-Nitrophenol | 216 | 131 | 0-132 |
| 2,4-Dinitrotoluene | 211 | 76 | 0-112 |
| Pentachlorophenol | 209 | 144 | 14-176 |
| Pyrene | 217 | 91 | 52-115 |

QUALITY CONTROL DATA

AEN JOB NO: 9509098
 SAMPLE SPIKED: DI WATER
 DATE(S) ANALYZED: 09/15-10/01/95
 MATRIX: WATER

Method Blank and Spike Recovery Summary

| Analyte | Inst./ Method | Blank Result (mg/L) | Spike Added (mg/L) | Percent Recovery | RPD | QC Limits | |
|--------------|------------------|---------------------------|--------------------------|---------------------|-----|---------------------|-----|
| | | | | | | Percent Recovery | RPD |
| Ag. Silver | ICP/200.7 | ND | 0.025 | 93 | 7 | 75-125 | 15 |
| As. Arsenic | 4000/7060 | ND | 0.04 | 79 | 6 | 69-136 | 11 |
| Ba. Barium | ICP/200.7 | ND | 0.2 | 102 | 5 | 75-125 | 15 |
| Cd. Cadmium | ICP/200.7 | ND | 0.05 | 102 | 10 | 75-125 | 15 |
| Cr. Chromium | ICP/200.7 | ND | 0.1 | 108 | 5 | 75-125 | 15 |
| Cu. Copper | ICP/200.7 | ND | 0.125 | 106 | 3 | 75-125 | 15 |
| Hg. Mercury | Hg/7470 | ND | 2.0 ug/L | 100 | 3 | 89-121 | 8 |
| Ni. Nickel | ICP/200.7 | ND | 0.25 | 101 | 5 | 75-125 | 15 |
| Pb. Lead | 4000/239.2 | ND | 0.02 | 92 | 4 | 75-125 | 14 |
| Se. Selenium | 4000/7740 | ND | 0.08 | 77 | 3 | 75-115 | 13 |
| Zn. Zinc | ICP/200.7 | ND | 0.25 | 105 | 2 | 75-125 | 15 |

*** END OF REPORT ***

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

10-3, 2-0 K-4.5-K
C-1, 5-3
9509098

| | | | |
|-------------------------|--------------------------------|--------------|-------------|
| Project No.: 3018.95.20 | Field Logbook No.: | Date: 9/8/95 | Serial No.: |
| Project Name: VOLVO/GM | Project Location: OAKLAND, CA. | | No 013752 |

| SAMPLER (Signature): JCK | | | | | SAMPLERS: JCK | | | | | | | | | | | | | |
|--------------------------|--------|-------|-----------------|--------------------|---------------|--------------------|---------|-----------|----------|-------|----------|------|------|------|--|---------|--|--|
| SAMPLE NO. | DATE | TIME | LAB SAMPLE NO. | NO. OF CON-TAINERS | SAMPLE TYPE | ANALYSES REQUESTED | | | | | | | | | | REMARKS | | |
| | | | | | | TPH | TPH-D+O | VOLATILES | ANALYSES | MOSES | TITLE 22 | 8270 | HOLD | RUSH | | | | |
| LF-5 | 9/7/95 | 10:00 | 01A | 1 | | | | | | | | | | | | | | STD TAT |
| LF-10 | | 15:10 | 02A | 1 | | | | | | | | | | | | | | |
| LF-8 | | 14:00 | 03A-H | 8 | | X | X | X | X | | | | | | | | | RESULTS TO |
| LF-3 | | 14:40 | 04A-F | 6 | | X | X | X | | | | | | | | | | JOHN KEELER |
| LF-1 | | 15:35 | 05A | | | | X | | | | | | | | | | | |
| LF-11 | | 15:45 | 06A | | | | X | | | | | | | | | | | TITLE 22 METALS |
| LF-F1 | | 16:15 | 07A | | | | X | | | | | | | | | | | |
| LF-122 | | 17:30 | 08A | | | | X | | | | | | | | | | | BASIN PLAN DETECTION |
| LF-4 | | 16:55 | 09A | | | | X | | | | | | | | | | | LIMITS |
| LF-22 | | 16:30 | 10A | | | | X | | | | | | | | | | | |
| TB | 9/5 | | 110B | | | | | | | | | | | | | | | 9/8/95 PER JOHN KEELER, DO NOT ANALYZE TB. |

| | | | | | |
|---|--------------|-------------|---|--------------|-------------|
| RELINQUISHED BY: (Signature) <i>JCK</i> | DATE: 9/8/95 | TIME: 10:00 | RECEIVED BY: (Signature) <i>Michael E. McPhee</i> | DATE: 9/8/95 | TIME: 10:00 |
| RELINQUISHED BY: (Signature) <i>Michael E. McPhee</i> | DATE: 9/8/95 | TIME: 12:55 | RECEIVED BY: (Signature) <i>Lori L. Remitt</i> | DATE: 9-8-95 | TIME: 12:55 |
| RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature) | DATE | TIME |

| | | | |
|---|------|------|------------------------|
| METHOD OF SHIPMENT: | DATE | TIME | LAB COMMENTS: |
| Sample Collector: LEVINE-FRICKE 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500 | | | Analytical Laboratory: |

APPENDIX B

WATER-QUALITY SAMPLING FORMS

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.93.20
 Project Name: Voxvo/Gm
 Sample Location: LF-1
 Samplers Name: JCK DJT
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/7/95
 Sample No.: LF-1
 FB: _____
 DUP: _____

- Centrifugal Pump Disposable Bailer
 Submersible Pump Teflon Bailer
 Hand Bail _____
 (Other)

Analyses Requested: TITLE 22 METALS
 Number and Types of Bottle used: 1 500 mL PLASTIC

20.00
 2.75

 17.25
 .16

 17.41
 1.0350
 1.725

 27600

17.25 20.00
 .8 13.80

 13800 620

80% DTW 6.20

Method of Shipment

AEN (Lab Name) Courier _____
 Hand Deliver: _____

Well Number: LF-1 Well Diameter: _____
 Depth of Water: 2.75 2" (0.16 Gallon/Feet)
 Well Depth: 20.00 4" (0.65 Gallon/Feet)
 Height of Water Column: 17.25 5" (1.02 Gallon/Feet)
 Volume in Well: 2.76 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|------------|
| 10:43 | | | | | | | | START |
| 10:47 | | 3 | | 22.8 | 4.71 | 10730 | | CLEAR |
| 10:51 | | 6 | | 21.6 | 4.19 | 14570 | | MOD TURBID |
| 10:56 | | 9 | | 21.2 | 3.71 | 37800 | | MOD TURBID |
| 11:01 | DEWATER | 11 | | 21.1 | 3.81 | 18090 | | MOD TURBID |
| 15:35 | 3.80 | | | | | | | SAMPLE |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER SAMPLING

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Volvo / Gw
 Sample Location: LF2
 Samplers Name: JCK DRJ
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/7/95
 Sample No.: LF-2
 FB: _____
 DUP: LF-122

- | | |
|---|---|
| <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"/> _____ (Other) |

Analyses Requested

TITLE 22 METALS

Number and Types of Bottle used

1 PLASTIC SOULC

14.75
5.12

9.63
.16

5778
963

15408

80% DTW

Method of Shipment

AEN

(Lab Name)

Courier

Hand Deliver:

Well Number: LF-2
 Depth of Water: 5.12
 Well Depth: 14.75
 Height of Water Column: 9.63
 Volume in Well: 1.54

Well Diameter:

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

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond. (mohs) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|----------------|---------|--------------|-----------------|-----------------------------|
| 13:07 | | | | | | | | START |
| 13:09 | | 2 | | 23.8 | 6.41 | 3720 | | TURBID |
| 13:12 | | 4 | | 22.6 | 6.32 | 3780 | | TURBID |
| 13:18 | | 6 | | 22.6 | 6.46 | 3830 | | TURBID |
| 16:30 | 5.50 | | | | | | | SAMPLE |
| 17:30 | | | | | | | | DUPLICATE (SEPERATE FILTER) |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Inlet Depth: _____

Comments:

(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VOLVO/GW
 Sample Location: LF.3
 Samplers Name: JCK DJT
 Sampling Plan Prepared By: JCK
 Sampling Method: J

Date: 9/7/95
 Sample No.: LF.3
 FB: _____
 DUP: _____

- Centrifugal Pump Disposable Bailer
 Submersible Pump Teflon Bailer
 Hand Bail _____
 (Other)

Analyses Requested
TITLE 22 METALS
TPH-d+o
TORg + BTEX

Number and Types of Bottle used
1 PLASTIC
2 L. GLASS
3 JVA

14.93
 5.38

 9.55
 .16

 5730
 955

 15280

80% DTW _____

Method of Shipment
AEN
 (Lab Name) Courier _____
 Hand Deliver:

Well Number: LF-3 Well Diameter: _____
 Depth of Water: 5.38 2" (0.16 Gallon/Feet)
 Well Depth: 14.93 4" (0.65 Gallon/Feet)
 Height of Water Column: 9.55 5" (1.02 Gallon/Feet)
 Volume in Well: 1.53 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|--------------|----------------|-------------------------|-------------------|----------------|-------------|-------------|-----------------|---------------|
| <u>1426</u> | | | | | | | | <u>Start</u> |
| <u>14:28</u> | | <u>2</u> | | <u>23.4</u> | <u>6.74</u> | <u>3.83</u> | | <u>turbid</u> |
| <u>14:30</u> | | <u>4</u> | | <u>23.4</u> | <u>6.67</u> | <u>3.99</u> | | <u>turbid</u> |
| <u>1432</u> | | <u>6</u> | | <u>23.3</u> | <u>6.57</u> | <u>4.05</u> | | <u>TURBID</u> |
| <u>1440</u> | <u>5.90</u> | | | | | | | <u>SAMPLE</u> |
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Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER SAMPLING INFORMATION

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Volvo/GM
 Sample Location: LF-4
 Samplers Name: JCK DRT
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/7/95
 Sample No.: LF-4
 FB: _____
 DUP: _____

- | | |
|---|---|
| <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"/> _____ (Other) |

Analyses Requested

TITLE 22 METALS

Number and Types of Bottle used

1 500 mL PLASTIC

| | |
|--------|--|
| 18.25 | |
| 5.38 | |
| 12.87 | |
| .16 | |
| 77.22 | |
| 12.87 | |
| 206.92 | |

| | |
|--------|-------|
| 12.87 | 18.25 |
| .8 | 10.30 |
| 10.296 | 7.95 |

80% DTW 7.95

Method of Shipment

AEN

(Lab Name)

Courier

Hand Deliver

Well Number: LF-4
 Depth of Water: 5.38
 Well Depth: 18.25
 Height of Water Column: 12.87
 Volume in Well: 2.07

- Well Diameter:
- | |
|--|
| <input type="checkbox"/> 2" (0.16 Gallon/Feet) |
| <input type="checkbox"/> 4" (0.65 Gallon/Feet) |
| <input type="checkbox"/> 5" (1.02 Gallon/Feet) |
| <input type="checkbox"/> 6" (1.47 Gallon/Feet) |

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|---------|
| 13:23 | | | | | | | | START |
| 13:26 | | 2 | | 23.0 | 6.66 | 2490 | | CLEAR |
| 13:29 | | 4 | | 22.4 | 6.66 | 2600 | | CLEAR |
| 13:33 | | 6 | | 21.5 | 6.75 | 3050 | | CLEAR |
| 16:55 | 11.90 | | | | 1 | | | SAMPLE |
| | | | | | | | | |
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Inlet Depth: _____

Comments:

(Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Volvo/GM
 Sample Location: LF-5
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/7/95
 Sample No.: LF-5
 FB: _____
 DUP: _____

- | | |
|---|---|
| <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"/> _____ (Other) |

Analyses Requested
TITLE 22 METALS

Number and Types of Bottle used
1 500 mL PLASTIC

21.10
 6.40

 14.70
 .16

 88.20
 1470

 23520

14.70 21.10
 .8 11.76

 11760 9.34

80% DTW 9.34

Method of Shipment
AEN
 (Lab Name) Courier _____
 Hand Deliver: _____

Well Number: LF-5 Well Diameter: _____
 Depth of Water: 6.40 2" (0.16 Gallon/Feet)
 Well Depth: 21.10 4" (0.65 Gallon/Feet)
 Height of Water Column: _____ 5" (1.02 Gallon/Feet)
 Volume in Well: 2.35 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|---------|
| 9:43 | | | | | | | | START |
| 9:45 | | 2.5 | | 22.7 | 6.16 | 18100 | | TURBID |
| 9:48 | | 5.0 | | 21.9 | 6.04 | 20000 | | TURBID |
| 9:53 | | 7.5 | | 21.6 | 5.99 | 20100 | | TURBID |
| 10:00 | 9.30 | | | | | | | SAMPLE |
| | | | | | | | | |
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Inlet Depth: _____
 Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VOLVO / GM
 Sample Location: LF-6
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK
 Sampling Method:

Date: 9/6/95
 Sample No.: LF-6
 FB:
 DUP:

- Centrifugal Pump
- Disposable Bailer
- Submersible Pump
- Teflon Bailer
- Hand Bail
- _____ (Other)

Analyses Requested: TITLE 22 METALS
 Number and Types of Bottle used: 1 500 mL PLASTIC

$$\begin{array}{r} 20.00 \\ 6.42 \\ \hline 13.58 \\ .16 \\ \hline 8148 \\ 1358 \\ \hline 21728 \end{array}$$

$$\begin{array}{r} 13.58 \\ .8 \\ \hline 10864 \end{array} \quad \begin{array}{r} 20.00 \\ 10.86 \\ \hline 9.14 \end{array}$$

 80% DTW 9.14

Method of Shipment: AEN
 (Lab Name) Courier Hand Deliver.

Well Number: LF-5 Well Diameter:
 Depth of Water: 6.42 2" (0.16 Gallon/Feet)
 Well Depth: 20.00 4" (0.65 Gallon/Feet)
 Height of Water Column: 13.58 5" (1.02 Gallon/Feet)
 Volume in Well: 2.17 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------------|----------------|-------------------------|-------------------|----------------|-------------|-------------|-----------------|---------------|
| <u>6:52</u> | | | | | | | | <u>START</u> |
| <u>6:54</u> | | <u>2.5</u> | | <u>22.5</u> | <u>4.76</u> | <u>5990</u> | | <u>TURBID</u> |
| <u>6:56</u> | | <u>5.0</u> | | <u>22.4</u> | <u>4.81</u> | <u>5660</u> | | <u>TURBID</u> |
| <u>6:59</u> | | <u>7.5</u> | | <u>22.2</u> | <u>4.76</u> | <u>5940</u> | | <u>TURBID</u> |
| <u>7:10</u> | <u>9.10</u> | | | | | | | <u>SAMPLE</u> |
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Inlet Depth: _____
 Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Volvo/Gm
 Sample Location: LF-7
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 8/9/95
 Sample No.: LF-7
 FB: _____
 DUP: _____

- | | |
|---|---|
| <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"/> _____ (Other) |

Analyses Requested: TITLE 22 METALS
 Number and Types of Bottle used: 1 500 mL PLASTIC

$$\begin{array}{r} 21.50 \\ 4.81 \\ \hline 16.69 \\ .16 \\ \hline 10014 \\ 1669 \\ \hline 2.6604 \end{array}$$

$$\begin{array}{r} 16.69 \\ .8 \\ \hline 13312 \end{array}$$

$$\begin{array}{r} 21.50 \\ 13.31 \\ \hline 8.19 \end{array}$$

80% DTW 8.19

Method of Shipment: AEN
 (Lab Name) Courier _____
 Hand Deliver: _____

Well Number: LF-7 Well Diameter: _____
 Depth of Water: 4.81 2" (0.16 Gallon/Feet)
 Well Depth: 21.50 4" (0.65 Gallon/Feet)
 Height of Water Column: 16.69 5" (1.02 Gallon/Feet)
 Volume in Well: 2.66 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Tempature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|--------------|---------|-------------|-----------------|---------|
| 1718 | | | | | | | | START |
| 1721 | | 3 | | 21.8 | 7.11 | 1708 | | TURBID |
| 1723 | | 6 | | 21.5 | 7.16 | 1742 | | TURBID |
| 1728 | | 9 | | 21.1 | 7.17 | 1735 | | TURBID |
| 17:40 | 7.10 | | | | | | | SAMPLE |
| | | | | | | | | |
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Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER SAMPLING LOG

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Volvo/Gm
 Sample Location: LF-8
 Samplers Name: JCK DJT
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/7/95
 Sample No.: LF-8
 FB: _____
 DUP: _____

- | | |
|--|---|
| <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"/> _____ |

(Other)

Analyses Requested
TITLE 22 METALS
TPH-d + o
TPH3 + BTEX

Number and Types of Bottle used
1 PLASTIC
2 L. GL
3 VOA

14.65
 5.08

 9.57
 .65

 4785
 5742

 62205

 9.57
 .8

80% DTW _____

Method of Shipment: 8270
AEN
 (Lab Name) Courier _____
 Hand Deliver: _____

Well Number: LF-8 Well Diameter: _____
 Depth of Water: 5.08 2" (0.16 Gallon/Feet)
 Well Depth: 14.65 4" (0.65 Gallon/Feet)
 Height of Water Column: 9.57 5" (1.02 Gallon/Feet)
 Volume in Well: 6.22 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|-------------|
| 13:46 | | | | | | | | START |
| 13:47 | | 7 | | 23.7 | 7.22 | 2950 | | CLEAR |
| 13:47 | DEWATER | 8 | | | | | | OFF |
| 13:49 | | | | | | | | ON |
| 13:50 | DEWATER | 14 | | 23.6 | 7.77 | 2850 | | CLEAR/OFF |
| 13:51 | | | | | | | | |
| 13:52 | DEWATER | 21 | | 23.6 | 7.12 | 2770 | | CLEAR / OFF |
| 14:00 | 5.26 | | | | | | | SAMPLE |
| | | | | | | | | |
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Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VOLVO / GM
 Sample Location: LF-9
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/8/95
 Sample No.: LF-9
 FB: _____
 DUP: _____

- | | |
|---|---|
| <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"/> _____ (Other) |

Analyses Requested

• TURBID L ETALS

Number and Types of Bottle used

1 L. PLASTIC

Method of Shipment

AEN

(Lab Name)

Courier

Hand Deliver:

Well Number: LF-9
 Depth of Water: 5.90
 Well Depth: 13.88
 Height of Water Column: 7.98
 Volume in Well: 1.28

Well Diameter:

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

13.88
 5.90

 7.98
 .16

 4788
 798

 12768
 7.98
 .8

 6384
 13.88
 6.38

 7.50
 80% DTW 7.50

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|---------|
| 9:37 | | | | | | | | START |
| 9:39 | | 1.5 | | 19.4 | 6.00 | 2930 | | TURBID |
| 9:41 | | 3.0 | | 19.0 | 6.02 | 3010 | | TURBID |
| 9:48 | | 4.5 | | 19.0 | 6.18 | 3060 | | TURBID |
| 9:55 | 1.00 | | | | | | | SAMPLE |
| | | | | | | | | |
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Inlet Depth: _____

Comments:
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Volvo/GL
 Sample Location: LF-10
 Samplers Name: JCK DRJ
 Sampling Plan Prepared By: JCK
 Sampling Method:

Date: 9/7/95
 Sample No.: LF-10
 FB: _____
 DUP: _____

- | | |
|--|---|
| <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"/> _____ (Other) |

Analyses Requested: LITTLE 22 METALS
 Number and Types of Bottle used: 1 500-ML PLASTIC

| | |
|---|--|
| $\begin{array}{r} 14.74 \\ 6.55 \\ \hline 8.19 \\ .65 \\ \hline 4095 \\ 4914 \\ \hline 53235 \end{array}$ | $\begin{array}{r} 8.19 \quad 14.74 \\ .8 \quad 6.55 \\ \hline 6552 \quad 8.19 \end{array}$ |
| 80% DTW <u>8.19</u> | |

Method of Shipment: AEN
 (Lab Name)
 Courier _____
 Hand Deliver:

Well Number: LF-10 Well Diameter: _____
 Depth of Water: 6.55
 Well Depth: 14.74
 Height of Water Column: 8.19
 Volume in Well: 5.32

- | |
|--|
| <input type="checkbox"/> 2" (0.16 Gallon/Feet) |
| <input type="checkbox"/> 4" (0.65 Gallon/Feet) |
| <input type="checkbox"/> 5" (1.02 Gallon/Feet) |
| <input type="checkbox"/> 6" (1.47 Gallon/Feet) |

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|------------|
| 10:20 | | | | | | | | START |
| 10:22 | DEWATER | 5.5 | | 23.2 | 6.30 | 9740 | | TURBID/OFF |
| 10:28 | | | | | | | | ON |
| 10:29 | DEWATER | 11.0 | | 23.5 | 6.38 | 11230 | | CLEAR/OFF |
| 11:10 | 11.55 | | | | | | | SAMPLE |
| | | | | | | | | |
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Net Depth: _____
 Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018, 95. 20
 Project Name: 10LVO / GM
 Sample Location: LF-11
 Samplers Name: JCK DRS
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/7/95

Sample No.: LF-11

FB: _____

DUP: _____

- | | |
|--|---|
| <input checked="" 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"/> _____ (Other) |

Analyses Requested
TITLE 22 METALS

Number and Types of Bottle used
1 PLASTIC 500 mL

20.01
 3.70

 16.31
 .65

 81.55
 9.786

 10.6015

 16.31 20.01
 .8 1389

 13.048 ~~15.70~~
 6.97

 80% DTW 6.97

Method of Shipment

AEN

(Lab Name)

Courier

Hand Deliver:

Well Number: LF-11

Well Diameter: _____

Depth of Water: 3.70

2" (0.16 Gallon/Feet)

Well Depth: 20.01

4" (0.65 Gallon/Feet)

Height of Water Column: 16.31

5" (1.02 Gallon/Feet)

Volume in Well: 10.60

6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|-----------|
| 11:12 | | | | | | | | START |
| 11:15 | | 11 | | 24.6 | 3.66 | 33,200 | | CLEAR |
| 11:17 | DEWATER | 20 | | | | | | OFF |
| 11:20 | | | | | | | | ON |
| 11:23 | DEWATER | 24 | | 26.5 | 3.76 | 43000 | | CLEAR/OFF |
| 15:45 | 16.82 | | | | | | | SAMPLE |
| | | | | | | | | |
| | | | | | | | | |
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Inlet Depth: _____

Comments: _____

(Recommended Method For Purging Well)

WT PLING 1997

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: VOLVO / GM
 Sample Location: LF-12
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/6/95
 Sample No.: LF-12
 FB: _____
 DUP: _____

- | | |
|--|---|
| <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"/> _____ (Other) |

Analyses Requested: TITLE 22 METALS
 Number and Types of Bottle used: 500 mL PLASTIC

14.70
 7.45

 7.25
 .65

 36.25
 4.55

 47.125

 7.25 14.70
 .8 5.80

 58.00 8.90

 80% DTW 8.90

Method of Shipment

AEN
 (Lab Name) Courier _____
 Hand Deliver: _____

Well Number: _____ Well Diameter: _____
 Depth of Water: 7.45 2" (0.16 Gallon/Feet)
 Well Depth: 14.70 4" (0.65 Gallon/Feet)
 Height of Water Column: 7.25 5" (1.02 Gallon/Feet)
 Volume in Well: 4.71 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Tempature °C | pH (SU) | Cond (moles) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|--------------|---------|--------------|-----------------|------------|
| 14:37 | | | | | | | | START |
| 14:39 | | | 5 | 25.1 | 4.40 | 10530 | | SL. TURBID |
| 1440 | DEWATER | | 7 | | | | | OFF |
| 1445 | | | | | | | | ON |
| 1445 | | | 10 | 27.4 | 4.37 | 10860 | | MOD TURBID |
| 1446 | DEWATER | | 11 | | | | | OFF |
| 1457 | | | | | | | | ON |
| 1458 | DEWATER | | 14 | 29.1 | 4.36 | 10900 | | CLEAR |
| 1615 | 8.50 | | | | | | | SAMPLE |

Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 301895.20
 Project Name: Volvo/GW
 Sample Location: LA LF-14
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/8/95
 Sample No.: LF-14
 FB: _____
 DUP: _____

- | | |
|---|---|
| <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"/> _____ (Other) |

Analyses Requested
TITLE 22 METALS

Number and Types of Bottle used
1 L. PLASTIC

25.00
 6.51

 18.49
 .16

 11094
 1849

 2.9584

 18.49 25.00
 .8 14.79

 14792 10.21

 80% DTW 10.21

Method of Shipment

AEN
 (Lab Name)

- Courier _____
 Hand Deliver: _____

Well Number: LF-14
 Depth of Water: 6.51
 Well Depth: 25.00
 Height of Water Column: 18.49
 Volume in Well: 2.96

- Well Diameter: _____
 2" (0.16 Gallon/Feet)
 4" (0.65 Gallon/Feet)
 5" (1.02 Gallon/Feet)
 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|---------|
| 835 | | | | | | | | START |
| 838 | | 3 | | 18.8 | 4.60 | 5240 | | TURBID |
| 843 | | 6 | | 18.5 | 4.61 | 7500 | | TURBID |
| 852 | | 9 | | 18.5 | 4.82 | 7460 | | TURBID |
| 910 | 6.70 | | | | | | | SAMPLE |
| | | | | | | | | |
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Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Volvo / GL
 Sample Location: LF-15
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/8/95
 Sample No.: LF-15
 FB: _____
 DUP: _____

- | | |
|---|---|
| <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"/> _____ |

Analyses Requested

TITLE 22 METALS

Number and Types of Bottle used

1 C. PL.

20.03
6.08

13.95
.16

8370
1395

22320

20.03
11.16

887

8.87

80% DTW

Method of Shipment

AEN

(Lab Name)

Courier

Hand Deliver:

Well Number: LF-15
 Depth of Water: 6.08
 Well Depth: 20.03
 Height of Water Column: 13.95
 Volume in Well: 2.23

Well Diameter:

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

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|-------------------|
| 10:55 | | | | | | | | START FIELD BLANK |
| 10:58 | | 2.5 ↓ | | | | 21 | | TURBID |
| 11:04 | | 5.0 ↓ | | 18.2 | 4.83 | 2190 | | TURBID ↓ |
| 11:04 | | ↓ | | 18.2 | 4.79 | 24200 | | ↓ |
| 11:10 | | 7.5 | | 18.1 | 4.61 | | 21400 | TURBID |
| 11:15 | | 10 | | 18.1 | 4.43 | 23000 | | TURBID |
| 11:18 | DEWATER | 12 | | 18.1 | 4.23 | 21200 | | TURBID |
| 12:00 | 8.80 | | | | | | | SAMPLE |
| | | | | | | | | |
| | | | | | | | | |
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Inlet Depth: _____

Comments:

(Recommended Method For Purging Well)

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WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Volvo/Gm
 Sample Location: LF-16
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/8/95
 Sample No.: LF-16
~~FB: LE-33-83~~ 16
 DUP: _____

- | | |
|---|---|
| <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"/> _____ (Other) |

Analyses Requested: TITLE 22 METALS
 Number and Types of Bottle used: 1 PL. 1.

24.50
 6.68

 17.82
 .16

 10692
 1782

 2.8412

80% DTW _____

Method of Shipment: AEN
 (Lab Name) Courier _____
 Hand Deliver _____

Well Number: _____ Well Diameter: _____
 Depth of Water: 6.68 2" (0.16 Gallon/Feet)
 Well Depth: 24.50 4" (0.65 Gallon/Feet)
 Height of Water Column: 17.82 5" (1.02 Gallon/Feet)
 Volume in Well: ~~107~~ 2.84 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|--------------------------------|
| 10:15 | | | | | | | | SEE FIELD BOOK SNAG |
| 10:18 | | 3 | | 19.4 | 3.98 | 14070 | | TURBID |
| 10:22 | | 6 | | 19.0 | 4.03 | 15390 | | TURBID |
| 10:28 | | 9 | | 16.7 | 4.02 | 16330 | | TURBID / BLOTCHES OF SHEEN |
| 10:45 | 6.95 | | | | | | | SAMPLE |
| | | | | | | | | |
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Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Valve/GM
 Sample Location: LF-17
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/16/95
 Sample No.: LF-17
 FB: _____
 DUP: _____

- | | |
|--|---|
| <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"/> _____ (Other) |

Analyses Requested
TITLE 22 METALS

Number and Types of Bottle used
1 500-ml PLASTIC

20.20
 7.02

 13.18
 .65

 6590
 7908

 85670

 13.18 20.20

 10544 10.54

 80% DTW 9.66

Method of Shipment
AEN
 (Lab Name) Courier _____
 Hand Deliver: _____

Well Number: LF-17 Well Diameter: _____
 Depth of Water: 7.02 2" (0.16 Gallon/Feet)
 Well Depth: 20.20 4" (0.65 Gallon/Feet)
 Height of Water Column: 13.18 5" (1.02 Gallon/Feet)
 Volume in Well: 8.57 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|--------------|
| 530 | | | | | | | | START |
| 1332 | | 9 | | 21.2 | 7.35 | 1613 | | THIRD TURBID |
| 1335 | | 18 | | 21.6 | 7.30 | 2470 | | TURBID |
| 1376 | NEW | 20 | | | | | | OFF |
| 1350 | | | | | | | | |
| 1352 | | 27 | | 21.5 | 7.35 | 1410 | | CLEAR / OFF |
| 515 | 7.80 | | | | | | | SAMPLE |
| | | | | | | | | |
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Inlet Depth: _____

Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Volvo/GM
 Sample Location: MW-1
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 8/9/95
 Sample No.: MW-1
 FB: _____
 DUP: _____

- | | |
|--|---|
| <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"/> _____ (Other) |

Analyses Requested: TITLE 22 METALS
 Number and Types of Bottle used: 1500 mL HDU

| | |
|---------|--------------|
| 28.50 | |
| 5.67 | |
| 22.83 | |
| .16 | |
| 13698 | |
| 2283 | |
| 36528 | |
| 22.83 | 28.50 |
| 18264 | 18.26 |
| 1024 | 10.24 |
| 80% DTW | <u>10.24</u> |

Method of Shipment: AEN
 (Lab Name) Courier _____
 Hand Deliver:

Well Number: MW-1 Well Diameter: _____
 Depth of Water: 5.67 2" (0.16 Gallon/Feet)
 Well Depth: 28.50 4" (0.65 Gallon/Feet)
 Height of Water Column: 22.83 5" (1.02 Gallon/Feet)
 Volume in Well: 3.65 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|------------------|
| 5:54 | | | | | | 117 | | START |
| 5:55 | | 4 | | 23.0 | 6.87 | 1176 | | TURBID |
| 5:57 | | 8 | | 22.3 | 6.83 | 1214 | | TURBID |
| 5:58 | DEWATER | 12 | | 22.0 | 6.87 | 1184 | | NOT TURBID / OFF |
| 6:07 | 24.0 | | | | | | | |
| 7:15 | 6.50 | | | | | | | CANUE |
| | | | | | | | | |
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Inlet Depth: _____
 Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Volvo/GM
 Sample Location: MW-2
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK

Date: 9/5/95
 Sample No.: MW-2
 FB: _____
 DUP: _____

Sampling Method: _____
 Centrifugal Pump Disposable Bailor
 Submersible Pump Teflon Bailor
 Hand Bail _____
 (Other)

Analyses Requested: AES TITLE 22 METALS
 Number and Types of Bottle used: 1 500 mL PLASTIC

27.00
 3.90

 23.10
 .16

 13860
 2310

 38960

23.10 27.00
 .8 18.48

 18480 852

80% DTW 8.52

Method of Shipment: AEN
 (Lab Name) Courier _____
 Hand Deliver: _____

Well Number: MW-2 Well Diameter: _____
 Depth of Water: 3.90
 Well Depth: 27.00
 Height of Water Column: 23.10
 Volume in Well: 3.70
 2" (0.16 Gallon/Feet)
 4" (0.65 Gallon/Feet)
 5" (1.02 Gallon/Feet)
 6" (1.47 Gallon/Feet)

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|---------|
| 1620 | | | | | | | | START |
| 1621 | | 4 | | 24.0 | 4.94 | 75200 | | TURBID |
| 1622 | | 8 | | 24.6 | 4.62 | 6580 | | ↓ |
| 1623 | | 12 | | 24.6 | 4.46 | 7440 | | ↓ |
| 1624 | | 16 | | 23.2 | 4.44 | 730 | | ↓ |
| 1625 | | 17 | | | | | | OFF |
| 1730 | 18.50 | | | | | | | |
| 1725 | 5.25 | | | | | | | SAMPLE |
| | | | | | | | | |
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Inlet Depth: _____
 Comments: _____
 (Recommended Method For Purging Well)

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.20
 Project Name: Volvo/Gm
 Sample Location: MW-3
 Samplers Name: JCK
 Sampling Plan Prepared By: JCK
 Sampling Method: _____

Date: 9/5/95
 Sample No.: MW-3
 FB: _____
 DUP: _____

- Centrifugal Pump
- Submersible Pump
- Hand Bail
- Disposable Bailer
- Teflon Bailer
- _____ (Other)

Analyses Requested: TITLE 22 METALS
 Number and Types of Bottle used: 1 500 mL PLASTIC

27.00
 6.38

 20.62
 .16

 1 2372
 2062

 3 2992

20.62 27.00
 .9 16.50

 16496 1050

80% DTW 10.50

Method of Shipment: AEN
 (Lab Name) Courier Hand Deliver:

Well Number: _____ Well Diameter: _____
 Depth of Water: 6.38
 Well Depth: 27.00
 Height of Water Column: 20.62
 Volume in Well: 3.30

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

| TIME | Depth to Water | Volume Purged (Gallons) | Totalizer Reading | Temperature °C | pH (SU) | Cond (mohs) | Turbidity (NTU) | Remarks |
|-------|----------------|-------------------------|-------------------|----------------|---------|-------------|-----------------|---------|
| 16:46 | | | | | | | | START |
| 16:47 | | 3.5 | | 23.4 | 4.60 | 6000 | | TURBID |
| 16:48 | | 7.0 | | 23.1 | 4.54 | 6430 | | TURBID |
| 16:51 | | 11 | | 22.5 | 4.55 | 6560 | | TURBID |
| 17:45 | 6.40 | | | | | | | SAMPLE |
| | | | | | | | | |
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Inlet Depth: _____
 Comments: _____
 (Recommended Method For Purging Well)

