February 19, 1997 3018.95-021

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

Subject: Quarterly Groundwater Monitoring Report for the Period from October 1 to December 31, 1996, 5050 Coliseum Way and 750-50th Avenue, Oakland, California

Dear Ms. Chin:

This quarterly report is submitted by Levine·Fricke·Recon Inc. (LFR; formerly Levine·Fricke, Inc. and Recon Environmental) on behalf of Volvo GM Heavy Truck Corporation for the subject site. During this quarterly period, depth-to-water measurements were collected in 22 monitoring wells and groundwater samples were collected from 10 wells.

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

Sincerely,

Kathleen A. Isaacson, R.G.
Principal Hydrogeologist

Enclosure

cc: Bob Whelen, Volvo GM Heavy Truck Corp.

Quarterly Groundwater Monitoring Report for the Period from October 1 to December 31, 1996
5050 Coliseum Way and 750-50th Avenue
Oakland, California

February 19, 1997
3018.95-021

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

Levine·Fricke·Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

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CERTIFICATION

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

2/19/97

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

Date

1.0 INTRODUCTION

This report, prepared by Levine·Fricke·Recon Inc. (LFR), presents results of quarterly groundwater monitoring activities conducted during the period from October 1 through December 31, 1996, for the properties located at 5050 Coliseum Way and 750-50th Avenue, Oakland, California (collectively referenced as "the Site"; Figure 1). This report was prepared on behalf of Volvo GM Heavy Truck Corporation ("Volvo GM") in accordance with our work plan dated January 6, 1993, and submitted to the Alameda County Health Care Services Agency (ACHCSA). This report includes graphic illustrations of potentiometric head (water-level) data and presents historical summaries of groundwater elevation and groundwater quality data collected at the Site.

2.0 WATER-LEVEL MEASUREMENTS AND GROUNDWATER FLOW DIRECTION

The top of each well casing at the Site has been surveyed relative to mean sea level by a state-licensed land surveyor. Water-level measurements were collected from 22 wells at the Site on December 18, 1996. A historical summary of depth-to-water measurements and groundwater elevations for the Site is presented in Table 1. Groundwater elevation contours for December 18, 1996, are presented in Figure 2.

Groundwater elevation data for December 18, 1996, indicate that the groundwater flow direction was generally toward the west, which is consistent with historical groundwater flow data. Groundwater elevation data indicate an average horizontal hydraulic gradient of approximately 0.006 foot per foot (ft/ft; as calculated between wells LF-5 and LF-7) across the Site. The gradient in the western portion of the Site, as measured between wells LF-15 and LF-5, is approximately 0.008 ft/ft.

Approximately 0.10 foot of free product was measured in well LF-13 using a product-thickness bailer. This measurement is consistent with previous measurements for the Site (Table 1). Since September 1995, droplets of oily material have been reported for well LF-16, located within the building. However, no measurable product thickness has been observed. Samples collected from well LF-16 during the recent sampling round were submitted for analysis of petroleum hydrocarbons. As discussed in Section 3.2.3, only total petroleum hydrocarbons as diesel (TPHd) was detected at a concentration of 0.25 parts per million (ppm).

3.0 GROUNDWATER QUALITY

Groundwater samples were collected from 10 monitoring wells (LF-1, LF-2, LF-3, LF-5, LF-8, LF-11, LF-12, LF-14, LF-16, and MW-3) on December 18 and 19, 1996,

as shown in Figure 3. Well LF-13, located on the southeastern property boundary, contained free product and therefore was not sampled.

Groundwater samples were submitted to the laboratory for metals analysis using EPA Method 200 series. Samples collected from wells LF-1, LF-3, LF-5, LF-8, LF-14, and LF-16 were also submitted for analysis of total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 5030, TPH as diesel (TPHd) and as oil (TPHo) by EPA Method 3510, and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020. Laboratory certificates and a chain-of-custody form are included in Appendix A.

Analytical results for groundwater samples collected during this recent round of sampling were generally consistent with results reported historically for the Site. Groundwater quality results are discussed in Section 3.2. Analytical results for metals analysis are presented in Table 2 and Figure 3. Analytical results for TPHg, TPHd, and TPHo are presented on Tables 3 and 4.

3.1 Sampling Procedures

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

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

For quality assurance/quality control measures, a duplicate sample was collected for wells LF-3 (LF-103) and LF-11 (LF-111) and submitted to AEN for petroleum hydrocarbon and metals analysis, respectively.

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

3.2 Groundwater Quality Results

3.2.1 Metals

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

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

Zinc was detected in all 10 wells at concentrations ranging from 0.030 ppm in LF-8 to 31,000 ppm in LF-11. Zinc was detected in downgradient well LF-12 at a concentration of 2,600 ppm. The highest concentration of lead (0.80 ppm) was detected in the sample from LF-1.

The highest concentration of cadmium (93 ppm) was detected in the sample collected from LF-11, and the highest concentration of copper (16 ppm) was detected in the sample collected from LF-16. The highest concentrations of cobalt (5 ppm) and nickel (19 ppm) were detected in the sample collected from LF-11. Of the downgradient wells that were sampled, LF-12 contained the highest concentrations of the metals cadmium (2.9 ppm), cobalt (2.1 ppm), nickel (6.1 ppm), and copper (1.2 ppm).

Arsenic was detected in samples collected from five wells, with the highest concentration, 3.6 ppm, reported for LF-3. Arsenic was detected in well LF-1, located downgradient from well LF-3, at a concentration of 0.92 ppm.

3.2.2 Petroleum Hydrocarbons

Analytical results for petroleum hydrocarbons in the samples collected from LF-3, LF-8, and LF-14 were similar to previous sampling events (Tables 3 and 4). TPHg was reported in samples collected from LF-8 and LF-14 at concentrations of 0.21 ppm and 0.71 ppm, respectively. Benzene (0.0012 ppm) and ethylbenzene (0.002 ppm) were detected in well LF-8, and benzene (0.0006 ppm) and xylenes (0.006 ppm) were detected in well LF-14. No TPHg or BTEX was not detected above the detection limits in the sample collected from LF-3. TPHo was not detected in any of the samples. TPHd was detected in the samples collected from LF-3, LF-8, and LF-14, at concentrations of 0.52 ppm, 3.2 ppm, and 0.56 ppm, respectively.

3.2.3 Former Waste-Oil Tank

No TPHg, BTEX, or TPHo was detected in the groundwater sample collected from well LF-1, located approximately 50 feet downgradient from the former waste-oil underground storage tank (UST). A low concentration of TPHd (0.61 ppm) was detected in well LF-1. These results are similar to previous results and indicate that

shallow groundwater quality has not been significantly affected by a possible release of petroleum hydrocarbons from the former UST.

To assess whether groundwater down or crossgradient from the former UST (and from LF-1) may have been affected by petroleum hydrocarbons, samples were additionally collected from wells LF-5 and LF-16, respectively. Oil droplets had been noted in well LF-16 during previous sampling events.

Analytical results for wells LF-5 and LF-16 do not indicate the presence of TPHg, BTEX, or TPHo above laboratory detection limits. TPHd was not detected in the sample collected from well LF-5. A low concentration of diesel (0.25 ppm) was detected in the sample collected from well LF-16.

3.2.4 Volatile Organic Compounds

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

3.2.5 Semivolatile Organic Compounds

No samples were analyzed for semivolatile organic compounds (SVOCs) this quarter.

3.2.6 Measurements of pH

Measurements of groundwater pH are shown in Figure 3. Recent monitoring results indicate that pH values for shallow groundwater beneath the Site were generally consistent with historical values and indicate that pH is variable across the Site. The lowest pH (3.58) was measured in the sample from well LF-11.

3.2.7 Quality Assurance/Quality Control

Analytical results for the duplicate samples collected from wells LF-3 (LF-103) and LF-11 (LF-111) generally showed similar petroleum hydrocarbon and metals concentrations, respectively, when compared to the primary sample collected from those wells (Table 2).

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

Well Number	Well Number	Top of PVC Casing Elevation (feet msl)	Date Measured	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (ft)	Groundwater Elevation (feet msl)
LF-1	LF-1	7.56	07-Nov-91	6.79			0.77
LF-1			26-Oct-92	4.69			2.87
LF-1			04-Mar-93	3.94			3.62
LF-1			14-Apr-93	3.41			4.15
LF-1			24-May-93	3.07			4.49
LF-1			14-Jun-93	3.41			4.15
LF-1			30-Jul-93	3.46			4.10
LF-1			31-Aug-93	3.67			3.89
LF-1			27-Sep-93	3.76			3.80
LF-1			25-Oct-93	3.74			3.82
LF-1			02-Nov-93	4.26			3.30
LF-1			08-Dec-93	4.42			3.14
LF-1			28-Jan-94	4.06			3.50
LF-1			15-Feb-94	3.94			3.62
LF-1			24-May-94	3.81			3.75
LF-1			21-Sep-94	3.75			3.81
LF-1			19-Dec-94	3.51			4.05
LF-1			13-Mar-95	2.33			5.23
LF-1			07-Jun-95	2.49			5.07
LF-1			05-Sep-95	2.78			4.78
LF-1			18-Dec-95	3.21			4.35
LF-1			28-Feb-96	2.51			5.05
LF-1			02-May-96	2.35			5.21
LF-1			23-Sep-96	2.80			4.76
LF-1			18-Dec-96	3.52			4.04
LF-2	LF-2	9.84	07-Nov-91	7.26			2.58
LF-2			26-Oct-92	6.28			3.56
LF-2			04-Mar-93	5.14			4.70
LF-2			14-Apr-93	4.95			4.89
LF-2			24-May-93	5.09			4.75
LF-2			14-Jun-93	5.21			4.63
LF-2			30-Jul-93	5.38			4.46
LF-2			31-Aug-93	5.57			4.27
LF-2			27-Sep-93	5.70			4.14
LF-2			25-Oct-93	5.80			4.04
LF-2			02-Nov-93	5.86			3.98
LF-2			08-Dec-93	6.21			3.63
LF-2			28-Jan-94	6.12			3.72
LF-2			15-Feb-94	6.07			3.77
LF-2			24-May-94	5.65			4.19
LF-2			21-Sep-94	6.00			3.84
LF-2			19-Dec-94	5.91			3.93
LF-2			13-Mar-95	4.30			5.54
LF-2			07-Jun-95	4.36			5.48
LF-2			05-Sep-95	5.12			4.72
LF-2			18-Dec-95	5.56			4.28

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

Well Number	Well Number	Top of PVC Casing Elevation (feet msl)	Date Measured	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (ft)	Groundwater Elevation (feet msl)
LF-2			28-Feb-96	4.51			5.33
LF-2			02-May-96	4.41			5.43
LF-2			23-Sep-96	5.24			4.60
LF-2			18-Dec-96	5.48			4.36
LF-3	LF-3	10.98	07-Nov-91	7.55			3.43
LF-3			26-Oct-92	7.05			3.93
LF-3			04-Mar-93	5.83			5.15
LF-3			14-Apr-93	5.48			5.50
LF-3			24-May-93	5.61			5.37
LF-3			14-Jun-93	5.75			5.23
LF-3			30-Jul-93	5.96			5.02
LF-3			31-Aug-93	6.18			4.80
LF-3			27-Sep-93	6.33			4.65
LF-3			25-Oct-93	6.46			4.52
LF-3			02-Nov-93	6.62			4.36
LF-3			08-Dec-93	6.71			4.27
LF-3			28-Jan-94	6.72			4.26
LF-3			15-Feb-94	6.50			4.48
LF-3			24-May-94	6.15			4.83
LF-3			21-Sep-94	6.56			4.42
LF-3			19-Dec-94	6.06			4.92
LF-3			13-Mar-95	4.85			6.13
LF-3			07-Jun-95	4.58			6.40
LF-3			05-Sep-95	5.38			5.60
LF-3			18-Dec-95	5.75			5.23
LF-3			28-Feb-96	4.80			6.18
LF-3			02-May-96	4.64			6.34
LF-3			23-Sep-96	5.53			5.45
LF-3			18-Dec-96	5.63			5.35
LF-4	LF-4	10.36	07-Nov-91	11.63			-1.27
LF-4			26-Oct-92	7.31			3.05
LF-4			04-Mar-93	5.58			4.78
LF-4			14-Apr-93	5.21			5.15
LF-4			24-May-93	5.48			4.88
LF-4			14-Jun-93	5.63			4.73
LF-4			30-Jul-93	5.92			4.44
LF-4			31-Aug-93	6.16			4.20
LF-4			27-Sep-93	6.36			4.00
LF-4			25-Oct-93	6.54			3.82
LF-4			02-Nov-93	7.00			3.36
LF-4			08-Dec-93	6.96			3.40
LF-4			28-Jan-94	7.04			3.32
LF-4			15-Feb-94	6.84			3.52
LF-4			24-May-94	5.99			4.37
LF-4			21-Sep-94	6.62			3.74

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

Well Number	Well Number	Top of PVC Casing Elevation (feet msl)	Date Measured	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (ft)	Groundwater Elevation (feet msl)
LF-4			19-Dec-94	6.75			3.61
LF-4			13-Mar-95	5.67			4.69
LF-4			07-Jun-95	4.48			5.88
LF-4			05-Sep-95	5.38			4.98
LF-4			18-Dec-95	5.96			4.40
LF-4			28-Feb-96	4.31			6.05
LF-4			02-May-96	4.40			5.96
LF-4			23-Sep-96	5.60			4.76
LF-4			18-Dec-96	5.75			4.61
LF-5	LF-5	8.03	07-Nov-91	7.34			0.69
LF-5			26-Oct-92	7.05			0.98
LF-5			04-Mar-93	6.05			1.98
LF-5			14-Apr-93	6.25			1.78
LF-5			24-May-93	6.61			1.42
LF-5			14-Jun-93	6.97			1.06
LF-5			30-Jul-93	6.72			1.31
LF-5			31-Aug-93	6.84			1.19
LF-5			27-Sep-93	7.10			0.93
LF-5			25-Oct-93	7.11			0.92
LF-5			02-Nov-93	7.04			0.99
LF-5			08-Dec-93	7.27			0.76
LF-5			28-Jan-94	6.82			1.21
LF-5			15-Feb-94	6.85			1.18
LF-5			24-May-94	6.76			1.27
LF-5			21-Sep-94	7.05			0.98
LF-5			19-Dec-94	6.48			1.55
LF-5			13-Mar-95	5.25			2.78
LF-5			07-Jun-95	5.98			2.05
LF-5			05-Sep-95	6.42			1.61
LF-5			18-Dec-95	5.87			2.16
LF-5			28-Feb-96	4.58			3.45
LF-5			02-May-96	5.72			2.31
LF-5			23-Sep-96	6.33			1.70
LF-5			18-Dec-96	5.63			2.40
LF-6	LF-6	11.59	07-Nov-91	8.59			3.00
LF-6			26-Oct-92	8.82			2.77
LF-6			04-Mar-93	5.79			5.80
LF-6			14-Apr-93	5.41			6.18
LF-6			24-May-93	6.05			5.54
LF-6			14-Jun-93	6.29			5.30
LF-6			30-Jul-93	6.83			4.76
LF-6			31-Aug-93	7.27			4.32
LF-6			27-Sep-93	7.61			3.98
LF-6			25-Oct-93	7.79			3.80
LF-6			02-Nov-93	8.07			3.52

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

Well Number	Well Number	Top of PVC Casing Elevation (feet msl)	Date Measured	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (ft)	Groundwater Elevation (feet msl)
LF-6			08-Dec-93	7.34			4.25
LF-6			28-Jan-94	6.37			5.22
LF-6			15-Feb-94	5.98			5.61
LF-6			24-May-94	6.14			5.45
LF-6			21-Sep-94	7.39			4.20
LF-6			19-Dec-94	6.12			5.47
LF-6			13-Mar-95	4.98			6.61
LF-6			07-Jun-95	5.03			6.56
LF-6			05-Sep-95	6.23			5.36
LF-6			18-Dec-95	5.71			5.88
LF-6			28-Feb-96	4.75			6.84
LF-6			02-May-96	5.08			6.51
LF-6			23-Sep-96	6.45			5.14
LF-6			18-Dec-96	5.52			6.07
LF-7	LF-7	10.65	07-Nov-91	8.54			2.11
LF-7			26-Oct-92	7.98			2.67
LF-7			04-Mar-93	4.92			5.73
LF-7			14-Apr-93	4.80			5.85
LF-7			24-May-93	5.03			5.62
LF-7			14-Jun-93	5.18			5.47
LF-7			30-Jul-93	5.51			5.14
LF-7			31-Aug-93	5.82			4.83
LF-7			27-Sep-93	6.14			4.51
LF-7			25-Oct-93	6.39			4.26
LF-7			02-Nov-93	6.60			4.05
LF-7			08-Dec-93	6.74			3.91
LF-7			28-Jan-94	6.03			4.62
LF-7			15-Feb-94	5.59			5.06
LF-7			24-May-94	5.46			5.19
LF-7			21-Sep-94	6.40			4.25
LF-7			19-Dec-94	5.59			5.06
LF-7			13-Mar-95	4.16			6.49
LF-7			07-Jun-95	4.07			6.58
LF-7			05-Sep-95	4.81			5.84
LF-7			18-Dec-95	4.99			5.66
LF-7			28-Feb-96	4.22			6.43
LF-7			02-May-96	4.09			6.56
LF-7			23-Sep-96	4.97			5.68
LF-7			18-Dec-96	4.95			5.70
LF-8	LF-8	10.91	02-Nov-93	6.18			4.73
LF-8			08-Dec-93	6.29			4.62
LF-8			28-Jan-94	6.38			4.53
LF-8			15-Feb-94	6.37			4.54
LF-8			24-May-94	6.15			4.76
LF-8			21-Sep-94	6.33			4.58

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

Well Number	Well Number	Top of PVC Casing Elevation (feet msl)	Date Measured	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (ft)	Groundwater Elevation (feet msl)
LF-8			19-Dec-94	6.31			4.60
LF-8			13-Mar-95	4.48			6.43
LF-8			07-Jun-95	4.46			6.45
LF-8			05-Sep-95	5.08			5.83
LF-8			18-Dec-95	5.63			5.28
LF-8			28-Feb-96	4.57			6.34
LF-8			02-May-96	4.41			6.50
LF-8			23-Sep-96	5.20			5.71
LF-8			18-Dec-96	5.48			5.43
LF-9	LF-9	11.70	02-Nov-93	6.76			4.94
LF-9			08-Dec-93	6.91			4.79
LF-9			28-Jan-94	6.88			4.82
LF-9			15-Feb-94	6.80			4.90
LF-9			24-May-94	6.80			4.90
LF-9			21-Sep-94	6.98			4.72
LF-9			19-Dec-94	6.34			5.36
LF-9			13-Mar-95	5.12			6.58
LF-9			07-Jun-95	5.31			6.39
LF-9			05-Sep-95	5.90			5.80
LF-9			18-Dec-95	6.80			4.90
LF-9			28-Feb-96	5.23			6.47
LF-9			02-May-96	5.16			6.54
LF-9			23-Sep-96	5.95			5.75
LF-9			18-Dec-96	6.00			5.70
LF-10	LF-10	9.43	02-Nov-93	8.14			1.29
LF-10			08-Dec-93	7.82			1.61
LF-10			28-Jan-94	NM			NM
LF-10			15-Feb-94	7.47			1.96
LF-10			24-May-94	7.11			2.32
LF-10			21-Sep-94	7.90			1.53
LF-10			19-Dec-94	7.21			2.22
LF-10			13-Mar-95	5.68			3.75
LF-10			07-Jun-95	5.92			3.51
LF-10			05-Sep-95	6.61			2.82
LF-10			18-Dec-95	6.92			2.51
LF-10			28-Feb-96	5.62			3.81
LF-10			02-May-96	6.00			3.43
LF-10			23-Sep-96	6.81			2.62
LF-10			18-Dec-96	7.45			1.98
LF-11	LF-11	9.07	02-Nov-93	11.68			-2.61
LF-11			08-Dec-93	5.35			3.72
LF-11			28-Jan-94	5.27			3.80
LF-11			15-Feb-94	5.04			4.03
LF-11			24-May-94	4.20			4.87
LF-11			21-Sep-94	4.70			4.37

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5050 Coliseum Way and 750-50th Avenue
Oakland, California

Well Number	Well Number	Top of PVC Casing Elevation (feet msl)	Date Measured	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (ft)		Groundwater Elevation (feet msl)	
LF-11			19-Dec-94	4.72				4.35	
LF-11			13-Mar-95	3.27				5.80	
LF-11			07-Jun-95	3.75				5.32	
LF-11			05-Sep-95	3.70				5.37	
LF-11			18-Dec-95	4.20				4.87	
LF-11			28-Feb-96	2.88				6.19	
LF-11			02-May-96	2.84				6.23	
LF-11			23-Sep-96	3.78				5.29	
LF-11			18-Dec-96	3.80				5.27	
LF-12	LF-12	8.70	02-Nov-93	7.87				0.83	
LF-12			08-Dec-93	7.90				0.80	
LF-12			28-Jan-94	7.46				1.24	
LF-12			15-Feb-94	7.66				1.04	
LF-12			21-Sep-94	7.80				0.90	
LF-12			19-Dec-94	7.32				1.38	
LF-12			13-Mar-95	6.00				2.70	
LF-12			07-Jun-95	7.40				1.30	
LF-12			05-Sep-95	7.45				1.25	
LF-12			18-Dec-95	6.71				1.99	
LF-12			28-Feb-96	6.28				2.42	
LF-12			02-May-96	7.09				1.61	
LF-12			23-Sep-96	7.35				1.35	
LF-12			18-Dec-96	6.07				2.63	
LF-13	LF-13	9.75	08-Dec-93	5.94				3.81	(1)
LF-13			28-Jan-94	4.94				4.81	(1)
LF-13			15-Feb-94	4.84	4.83	0.01		4.92	(1)
LF-13			24-May-94	4.81	4.75	0.06		4.99	(1)
LF-13			21-Sep-94	6.32	5.17	1.15	(2)	4.41	(1)
LF-13			19-Dec-94	4.67	4.57	0.10		5.17	(1)
LF-13			13-Mar-95	3.22	3.12	0.10		6.62	(1)
LF-13			07-Jun-95	3.32	3.22	0.10		6.52	(1)
LF-13			05-Sep-95	3.90	3.80	0.10		5.94	(1)
LF-13			18-Dec-95	4.13	4.03	0.10		5.71	(1)
LF-13			28-Feb-96	3.48	3.38	0.10		6.36	(1)
LF-13			02-May-96	3.44	3.34	0.10		6.40	(1)
LF-13			23-Sep-96	4.05	3.95	0.10		5.79	(1)
LF-13			18-Dec-96	4.00	3.90	0.10		5.84	(1)
LF-14	LF-14	11.72	08-Dec-93	7.96				3.76	
LF-14			28-Jan-94	8.02				3.70	
LF-14			15-Feb-94	7.85				3.87	
LF-14			24-May-94	7.68				4.04	
LF-14			21-Sep-94	7.69				4.03	
LF-14			19-Dec-94	7.71				4.01	
LF-14			13-Mar-95	6.68				5.04	

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

Well Number	Well Number	Top of PVC Casing Elevation (feet msl)	Date Measured	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (ft)	Groundwater Elevation (feet msl)	
LF-14			07-Jun-95	6.03			5.69	
LF-14			05-Sep-95	6.51			5.21	
LF-14			18-Dec-95	7.39			4.33	
LF-14			28-Feb-96	5.95			5.77	
LF-14			02-May-96	NM			NM	
LF-14			23-Sep-96	6.78			4.94	
LF-14			18-Dec-96	6.92			4.80	
LF-15	LF-15	11.62	08-Dec-93	7.91			3.71	
LF-15			28-Jan-94	7.74			3.88	
LF-15			15-Feb-94	7.58			4.04	
LF-15			24-May-94	8.07			3.55	
LF-15			21-Sep-94	8.58			3.04	
LF-15			19-Dec-94	NM			NM	
LF-15			13-Mar-95	6.32			5.30	
LF-15			07-Jun-95	6.44			5.18	
LF-15			05-Sep-95	6.08			5.54	
LF-15			18-Dec-95	11.01			0.61	(3)
LF-15			28-Feb-96	5.92			5.70	
LF-15			02-May-96	8.70			2.92	(3)
LF-15			23-Sep-96	6.20			5.42	
LF-15			18-Dec-96	6.47			5.15	
LF-16	LF-16	11.56	08-Dec-93	8.35			3.21	
LF-16			28-Jan-94	8.40			3.16	
LF-16			15-Feb-94	8.21			3.35	
LF-16			24-May-94	8.01			3.55	
LF-16			21-Sep-94	7.64			3.92	
LF-16			19-Dec-94	8.60			2.96	
LF-16			13-Mar-95	6.22			5.34	
LF-16			07-Jun-95	6.88			4.68	
LF-16			05-Sep-95	7.37			4.19	
LF-16			18-Dec-95	9.21			2.35	(3)
LF-16			28-Feb-96	6.26			5.30	
LF-16			02-May-96	6.24			5.32	
LF-16			23-Sep-96	7.18			4.38	
LF-16			18-Dec-96	7.08			4.48	
LF-17	LF-17	9.71	08-Dec-93	6.72			2.99	
LF-17			28-Jan-94	5.86			3.85	
LF-17			15-Feb-94	5.87			3.84	
LF-17			24-May-94	6.00			3.71	
LF-17			21-Sep-94	6.88			2.83	
LF-17			19-Dec-94	5.45			4.26	
LF-17			13-Mar-95	4.68			5.03	
LF-17			07-Jun-95	6.52			3.19	
LF-17			05-Sep-95	7.02			2.69	

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

Well Number	Well Number	Top of PVC Casing Elevation (feet msl)	Date Measured	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (ft)	Groundwater Elevation (feet msl)
LF-17			18-Dec-95	5.11			4.60
LF-17			28-Feb-96	4.63			5.08
LF-17			02-May-96	5.90			3.81
LF-17			23-Sep-96	7.04			2.67
LF-17			18-Dec-96	5.27			4.44
LF-F1	LF-F1	8.82	08-Dec-93	4.08			4.74
LF-F1			28-Jan-94	4.03			4.79
LF-F1			15-Feb-94	3.90			4.92
LF-F1			24-May-94	3.60			5.22
LF-F1			21-Sep-94	4.05			4.77
LF-F1			19-Dec-94	3.45			5.37
LF-F1			13-Mar-95	2.22			6.60
LF-F1			07-Jun-95	2.28			6.54
LF-F1			05-Sep-95	2.92			5.90
LF-F1			18-Dec-95	3.18			5.64
LF-F1			28-Feb-96	2.31			6.51
LF-F1			02-May-96	2.27			6.55
LF-F1			23-Sep-96	3.10			5.72
LF-F1			18-Dec-96	3.02			5.80
MW-1	MW-1	10.21	07-Nov-91	6.29			4.24
MW-1			26-Oct-92	6.38			2.63
MW-1			04-Mar-93	3.57			6.64
MW-1			14-Apr-93	3.57			6.64
MW-1			24-May-93	4.59			5.62
MW-1			14-Jun-93	4.86			5.35
MW-1			30-Jul-93	5.72			4.49
MW-1			31-Aug-93	6.38			3.83
MW-1			27-Sep-93	6.85			3.36
MW-1			25-Oct-93	7.03			3.18
MW-1			02-Nov-93	7.30			2.91
MW-1			08-Dec-93	6.51			3.70
MW-1			28-Jan-94	5.00			5.21
MW-1			15-Feb-94	4.46			5.75
MW-1			24-May-94	4.65			5.56
MW-1			21-Sep-94	6.35			3.86
MW-1			19-Dec-94	3.70			6.51
MW-1			13-Mar-95	2.71			7.50
MW-1			07-Jun-95	4.02			6.19
MW-1			05-Sep-95	5.67			4.54
MW-1			18-Dec-95	4.47			5.74
MW-1			28-Feb-96	2.53			7.68
MW-1			02-May-96	3.72			6.49
MW-1			23-Sep-96	6.00			4.21
MW-1			18-Dec-96	3.70			6.51

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

Well Number	Well Number	Top of PVC Casing Elevation (feet msl)	Date Measured	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (ft)	Groundwater Elevation (feet msl)
MW-2	MW-2	8.86	07-Nov-91	5.93			2.93
MW-2			26-Oct-92	5.41			3.45
MW-2			04-Mar-93	4.26			4.60
MW-2			14-Apr-93	3.83			5.03
MW-2			24-May-93	3.78			5.08
MW-2			14-Jun-93	3.89			4.97
MW-2			30-Jul-93	4.10			4.76
MW-2			31-Aug-93	4.37			4.49
MW-2			27-Sep-93	4.72			4.14
MW-2			25-Oct-93	4.81			4.05
MW-2			02-Nov-93	4.96			3.90
MW-2			08-Dec-93	5.13			3.73
MW-2			28-Jan-94	5.18			3.68
MW-2			15-Feb-94	5.02			3.84
MW-2			24-May-94	4.43			4.43
MW-2			21-Sep-94	5.82			3.04
MW-2			12-Dec-94	4.75			4.11
MW-2			13-Mar-95	3.28			5.58
MW-2			07-Jun-95	3.12			5.74
MW-2			05-Sep-95	3.90			4.96
MW-2			18-Dec-95	4.55			4.31
MW-2			28-Feb-96	3.12			5.74
MW-2			02-May-96	3.03			5.83
MW-2			23-Sep-96	4.07			4.79
MW-2			18-Dec-96	4.43			4.43
MW-3	MW-3	9.01	07-Nov-91	6.94			2.07
MW-3			26-Oct-92	7.29			1.72
MW-3			04-Mar-93	5.07			3.94
MW-3			14-Apr-93	5.21			3.80
MW-3			24-May-93	5.95			3.06
MW-3			14-Jun-93	6.23			2.78
MW-3			27-Sep-93	6.46			2.55
MW-3			25-Oct-93	6.47			2.54
MW-3			02-Nov-93	6.62			2.39
MW-3			08-Dec-93	6.23			2.78
MW-3			28-Jan-94	5.58			3.43
MW-3			15-Feb-94	5.70			3.31
MW-3			24-May-94	5.59			3.42
MW-3			21-Sep-94	6.46			2.55
MW-3			19-Dec-94	5.46			3.55
MW-3			13-Mar-95	4.37			4.64
MW-3			07-Jun-95	5.61			3.40
MW-3			05-Sep-95	6.38			2.63
MW-3			18-Dec-95	4.91			4.10
MW-3			28-Feb-96	4.37			4.64

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

Well Number	Well Number	Top of PVC Casing Elevation (feet msl)	Date Measured	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (ft)	Groundwater Elevation (feet msl)
MW-3			02-May-96	5.23			3.78
MW-3			23-Sep-96	6.34			2.67
MW-3			18-Dec-96	5.31			3.70
MW-4	MW-4	10.75	07-Nov-91	10.26			0.49
MW-4			26-Oct-92	9.04			1.71
MW-4			04-Mar-93	5.77			4.98
MW-4			14-Apr-93	4.71			6.04
MW-4			24-May-93	5.60			5.15
MW-4			14-Jun-93	5.94			4.81
MW-4			30-Jul-93	6.72			4.03
MW-4			31-Aug-93	7.25			3.50
MW-4			27-Sep-93	7.66			3.09
MW-4			25-Oct-93	7.79			2.96
MW-4			02-Nov-93	7.97			2.78
MW-4			08-Dec-93	7.18			3.57
MW-4			28-Jan-94	5.50			5.25
MW-4			15-Feb-94	5.17			5.58
MW-4			24-May-94	5.46			5.29
MW-4			21-Sep-94	7.52			3.23
MW-4			19-Dec-94	4.42			6.33
MW-4			13-Mar-95	3.48			7.27
MW-4			07-Jun-95	4.93			5.82
MW-4			05-Sep-95	6.34			4.41
MW-4			18-Dec-95	4.61			6.14
MW-4			28-Feb-96	3.36			7.39
MW-4			02-May-96	4.53			6.22
MW-4			18-Dec-96	4.35			6.40

Data entered by PKW. Data proofed by JJB

NOTES

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

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

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

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

(3) Groundwater elevations appear to be anomalous.

Table 2

Metals Detected in Groundwater Samples
5050 Coliseum Way and 750-50th Avenue
Oakland, California

(Concentrations reported in parts per million [ppm])

Sample ID	Sample Date	Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Mercury	Molyb-denum	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
Duplicate	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
Duplicate	8-Jun-95	<0.5	0.41	<1	<0.2	23	1.8	<1	<1	<0.0002	<1	7	0.76	<2	<0.02	<5	<0.5	10000
LF-1	7-Sep-95	<0.05	0.30	<0.1	0.03	23	2.0	<0.1	0.5	<0.0002	<0.1	7.3	0.67	<0.2	<0.1	0.6	<0.05	10000
LF-1	19-Dec-95	<0.5	0.34	<1	<0.3	12	1.1	<1	<1	<0.0002	<1	4	0.26	<2	0.036	<5	<0.5	6200
LF-1	29-Feb-96	<0.05	0.65	<0.1	<0.02	5.6	0.6	<0.1	<0.1	<0.0002	<0.1	2.4	0.97	<0.2	<0.02	<0.5	<0.05	4600
LF-1	2-May-96	<0.5	0.40	<1	<0.2	9.9	1.0	<1	<1	<0.0002	<1	3	0.95	<2	<0.004	<5	<0.5	6700
LF-1	24-Sep-96	<0.05	1.40	<0.1	<0.02	4.7	0.5	<0.1	0.2	<0.0002	0.2	1.6	<0.01	<0.2	<0.004	<0.5	<0.05	1900
LF-1	19-Dec-96	<0.05	0.92	<0.1	<0.03	5.2	0.62	<0.1	0.1	<0.0002	0.1	2.1	0.80	<0.2	<0.04	<0.5	<0.05	4000
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
Duplicate	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
Duplicate	7-Sep-95	<0.001	<0.002	0.020	<0.0005	<0.001	0.042	<0.002	0.005	<0.0002	<0.002	0.027	<0.002	<0.004	<0.004	<0.01	<0.001	0.50
LF-2	19-Dec-95	<0.001	<0.002	0.020	<0.0005	<0.001	0.043	<0.002	0.002	<0.0002	<0.002	0.045	<0.002	<0.004	<0.004	<0.01	0.001	0.74
LF-2	1-Mar-96	<0.001	0.002	0.018	<0.0005	<0.001	0.039	<0.002	0.004	<0.0002	<0.002	0.036	<0.005	<0.004	<0.004	0.01	0.001	0.65
LF-2	2-May-96	0.001	<0.002	0.018	<0.0005	<0.001	0.034	<0.002	0.003	<0.0002	<0.002	0.026	<0.002	<0.004	<0.004	0.02	<0.001	0.53
Duplicate	2-May-96	0.001	<0.002	0.019	<0.0005	<0.001	0.035	<0.002	0.005	<0.0002	0.002	0.02	<0.002	<0.004	<0.004	<0.01	<0.001	0.37
LF-2	24-Sep-96	<0.001	<0.002	0.018	<0.0005	<0.001	0.035	<0.002	0.003	<0.0002	<0.002	0.026	<0.005	<0.004	<0.004	<0.01	<0.001	0.45
LF-2	18-Dec-96	<0.001	0.002	0.022	<0.0005	<0.001	0.042	<0.002	0.004	<0.0002	<0.002	0.025	<0.002	<0.004	<0.004	<0.01	<0.001	0.48
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

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

Sample ID	Sample Date	Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Mercury	Molyb-denum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc
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
Duplicate	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
Duplicate	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
Duplicate	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
LF-3	7-Jun-95	<0.001	5.6	0.057	0.0018	<0.001	0.014	0.003	0.003	<0.0002	0.13	0.012	<0.002	<0.004	<0.04	<0.01	0.013	9.9
LF-3	7-Sep-95	<0.001	3.0	0.13	0.0017	<0.001	0.011	0.004	<0.002	<0.0002	0.12	0.008	<0.002	<0.004	<0.2	0.02	0.013	5.4
LF-3	18-Dec-95	<0.001	4.2	0.06	0.002	0.015	0.013	0.004	<0.002	<0.0002	0.13	0.012	<0.005	<0.004	0.019	<0.01	0.01	8.4
Duplicate	18-Dec-95	<0.001	4.2	0.12	0.001	0.011	0.009	0.005	<0.002	<0.0002	0.098	0.01	<0.005	<0.004	<0.02	<0.01	0.011	5.1
LF-3	1-Mar-96	<0.001	2.7	0.096	0.001	<0.001	0.008	0.002	<0.002	<0.0002	0.08	0.007	<0.005	<0.004	<0.1	0.01	0.01	3.7
LF-3	2-May-96	<0.001	3.3	0.11	<0.0005	0.002	0.009	<0.002	<0.002	<0.0002	0.082	0.007	<0.005	<0.004	<0.004	0.02	0.001	5.2
LF-3	24-Sep-96	<0.001	4.6	0.068	0.001	0.051	0.009	<0.002	0.005	<0.0002	0.096	0.008	<0.005	<0.004	<0.1	0.02	<0.001	4.8
LF-3	19-Dec-96	<0.001	3.6	0.12	0.0012	0.035	0.010	<0.002	<0.002	<0.0002	0.098	0.011	<0.002	<0.004	<0.2	<0.01	<0.001	6.6
LF-4	4-Nov-91	<0.002	0.026	0.082	<0.001	<0.005	<0.005	<0.01	<0.004	<0.0003	<0.01	0.013	<0.005	0.03	<0.004	<0.1	0.01	0.034
LF-4	27-Oct-92	<0.005	0.034	<0.05	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	<0.01	0.03	<0.04	<0.02	<0.004	<0.1	<0.005	0.012
LF-4	4-Mar-93	<0.005	0.017	0.11	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	<0.01	0.05	<0.04	0.02	<0.004	<0.1	0.008	0.04
LF-4	24-May-93	<0.005	0.013	0.22	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	<0.01	0.03	<0.04	<0.02	<0.004	<0.1	<0.005	0.035
LF-4	31-Aug-93	<0.005	0.052	0.08	<0.002	<0.005	0.006	<0.01	<0.01	<0.0003	<0.01	0.04	<0.04	<0.02	<0.004	<0.1	0.009	0.038
LF-4	25-Oct-93	<0.005	0.014	0.12	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	<0.01	0.04	<0.04	<0.02	<0.004	<0.1	0.015	0.068
LF-4	16-Feb-94	<0.005	0.008	0.29	<0.002	<0.005	0.006	<0.01	<0.01	<0.0002	<0.01	0.04	<0.04	<0.02	<0.004	<0.1	<0.005	0.05
LF-4	22-Sep-94	<0.001	0.005	0.19	<0.0005	0.001	0.003	<0.002	0.003	<0.0002	<0.002	0.037	<0.005	0.007	<0.004	<0.02	0.007	0.067
LF-4	15-Mar-95	<0.001	0.008	0.34	<0.0005	0.001	0.005	<0.002	<0.002	<0.0002	<0.002	0.037	<0.002	<0.004	<0.004	<0.01	0.002	0.064
LF-4	7-Sep-95	<0.001	0.012	0.15	<0.0005	0.001	0.004	<0.002	<0.002	<0.0002	<0.002	0.048	<0.002	<0.004	<0.004	<0.01	0.002	0.24
LF-4	1-Mar-96	<0.001	0.013	0.13	<0.0005	<0.001	0.004	<0.002	<0.002	<0.0002	<0.002	0.048	<0.005	<0.004	<0.004	<0.01	0.002	0.031
Duplicate	1-Mar-96	<0.001	0.007	0.36	<0.0005	<0.001	0.005	<0.002	<0.002	<0.0002	<0.002	0.026	<0.005	<0.004	<0.004	<0.01	0.002	0.047
LF-4	24-Sep-96	<0.001	0.013	0.12	<0.0005	<0.001	0.003	<0.002	<0.002	<0.0002	<0.002	0.031	<0.002	<0.004	<0.004	<0.01	0.001	0.053
LF-5	4-Nov-91	0.004	<0.002	0.018	<0.001	0.049	0.03	<0.01	<0.005	0.0004	<0.01	0.23	<0.005	<0.02	<0.004	<0.1	<0.005	11
LF-5	27-Oct-92	0.022	0.005	<0.05	<0.002	0.24	1.4	<0.01	<0.01	<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-5	18-Dec-95	0.003	<0.005	0.017	<0.0005	0.2	0.99	0.004	0.002	<0.0002	<0.002	3.1	<0.005	<0.004	<0.01	0.12	0.003	47
LF-5	29-Feb-96	<0.001	<0.01	0.11	<0.0005	0.01	0.034	<0.002	0.002	<0.0002	<0.002	0.17	<0.01	<0.004	<0.02	<0.01	0.002	2.6
LF-5	2-May-96	0.019	<0.005	0.012	<0.0005	0.72	4	<0.002	0.007	<0.0002	<0.002	12	<0.005	<0.004	<0.01	0.07	<0.001	150
LF-5	24-Sep-96	0.014	<0.01	0.014	<0.0005	0.32	1.3	<0.002	0.009	<0.0002	<0.002	3.8	<0.01	<0.004	<0.02	0.03	<0.001	64
LF-5	19-Dec-96	0.004	<0.01	0.048	<0.0005	0.11	0.58	<0.002	0.003	<0.0002	0.002	1.9	<0.005	<0.004	<0.02	<0.01	0.003	26
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

Table 2

Metals Detected in Groundwater Samples
5050 Coliseum Way and 750-50th Avenue
Oakland, California

(Concentrations reported in parts per million [ppm])

Sample ID	Sample Date	Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Mercury	Molyb-denum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc
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-6	29-Feb-96	0.003	<0.002	0.009	0.0024	0.098	0.81	<0.002	0.009	<0.0002	<0.002	2.8	<0.005	<0.004	<0.004	0.05	<0.001	11
LF-6	25-Sep-96	0.007	<0.002	0.013	0.0022	0.093	0.83	<0.002	0.009	<0.0002	<0.002	2.9	<0.002	<0.004	<0.004	0.04	<0.001	11
LF-7	5-Nov-91	<0.002	0.004	0.13	<0.001	<0.005	<0.005	<0.01	0.006	0.0011	<0.01	0.01	<0.005	<0.02	<0.004	<0.1	0.006	<0.005
LF-7	27-Oct-92	<0.005	0.03	0.11	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	0.01	0.01	<0.04	<0.02	<0.004	<0.1	0.008	0.021
LF-7	4-Mar-93	<0.005	0.025	0.08	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	0.01	0.01	<0.04	<0.02	<0.01	<0.1	0.009	0.01
LF-7	24-May-93	<0.005	0.003	0.08	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	<0.01	<0.01	<0.04	<0.02	<0.004	<0.1	0.006	0.007
LF-7	31-Aug-93	<0.005	0.013	0.08	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	<0.01	<0.01	<0.04	<0.02	<0.004	<0.1	0.006	0.021
LF-7	25-Oct-93	<0.005	<0.002	0.09	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	<0.01	<0.01	<0.04	<0.02	<0.004	<0.1	0.006	0.011
LF-7	16-Feb-94	<0.005	0.014	0.12	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0002	<0.01	0.02	<0.04	<0.02	<0.004	<0.1	0.005	0.01
LF-7	21-Sep-94	<0.001	<0.002	0.1	<0.0005	<0.001	<0.001	<0.002	<0.002	<0.0002	0.006	0.01	<0.005	0.005	<0.004	<0.02	0.006	0.012
LF-7	15-Mar-95	<0.001	0.004	0.24	<0.0005	<0.001	<0.001	<0.002	<0.002	<0.0002	0.005	0.011	<0.005	<0.004	<0.004	<0.01	0.006	0.053
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
LF-7	28-Feb-96	<0.001	0.035	0.3	<0.0005	<0.001	0.001	<0.002	0.003	<0.0002	0.007	0.013	<0.005	<0.004	<0.004	<0.01	0.006	0.006
LF-7	25-Sep-96	<0.001	0.035	0.24	<0.0005	<0.001	<0.001	<0.002	<0.002	<0.0002	0.007	0.014	<0.002	<0.004	<0.004	<0.01	0.007	0.023
LF-8	27-Oct-93	<0.005	2.6	0.16	<0.002	<0.005	0.005	<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-8	18-Dec-95	<0.001	3.4	0.17	<0.0005	0.007	<0.001	<0.002	<0.002	<0.0002	<0.002	<0.002	<0.005	<0.004	<0.02	<0.01	0.002	0.013
LF-8	29-Feb-96	<0.001	1.7	0.1	<0.0005	<0.001	<0.001	<0.002	<0.002	<0.0002	<0.002	0.005	<0.005	<0.004	<0.004	<0.01	0.002	0.066
LF-8	2-May-96	<0.001	2.1	0.066	<0.0005	0.001	0.001	<0.002	<0.002	<0.0002	<0.002	0.003	<0.002	<0.004	<0.004	<0.01	<0.001	0.02
LF-8	25-Sep-96	<0.001	3.2	0.058	<0.0005	0.025	<0.001	<0.002	<0.002	<0.0002	<0.002	0.002	<0.002	<0.004	<0.004	<0.01	<0.001	0.036
LF-8	18-Dec-96	<0.001	3.0	0.10	<0.0005	0.022	<0.001	<0.002	<0.002	<0.0002	0.003	0.004	<0.002	<0.004	<0.004	<0.01	<0.001	0.030
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
Duplicate	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-9	29-Feb-96	<0.001	0.16	0.014	<0.0005	0.054	0.025	<0.002	<0.002	<0.0002	0.003	0.099	<0.005	0.006	<0.01	0.02	0.002	34
LF-9	25-Sep-96	<0.001	0.22	0.015	<0.0005	0.048	0.031	<0.002	<0.002	<0.0002	0.005	0.096	<0.002	<0.004	<0.01	0.02	<0.001	33
LF-10	28-Oct-93	<0.005	0.04	0.77	<0.002	0.02	0.019	0.07	0.04	<0.0003	<0.01	0.17	<0.04	<0.02	<0.04	<0.1	0.048	2
LF-10	16-Feb-94	<0.005	<0.005	<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

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

Sample ID	Sample Date	Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Mercury	Molyb-denum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc
LF-10	29-Feb-96	<0.001	0.006	0.014	<0.0005	0.001	0.007	<0.002	0.007	<0.0002	<0.002	0.092	0.011	<0.004	<0.01	<0.01	0.004	0.2
LF-10	24-Sep-96	<0.001	<0.005	0.013	<0.0005	<0.001	0.007	<0.002	0.010	<0.0002	<0.002	0.083	<0.002	<0.004	<0.01	0.01	0.004	0.061
LF-11	28-Oct-93	<0.005	0.07	0.1	<0.002	120	5.9	<0.01	3	<0.0003	<0.01	28	6	<0.02	<0.04	<0.1	2	47000
LF-11	18-Feb-94	<0.5	<0.02	<5	<0.2	140	8.4	<1	4	<0.0002	<1	37	<4	<2	<0.02	<10	<0.5	44000
Duplicate	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-11	18-Dec-95	<5	0.31	<1	<3	110	6	<10	<10	<0.0002	<10	25	0.021	<20	<0.08	<50	<5	37000
LF-11	29-Feb-96	<0.5	<0.01	<1	<0.2	120	6.2	<1	5	<0.0002	<1	25	0.13	<2	<0.02	<5	<0.5	42000
LF-11	2-May-96	<0.5	<0.02	<1	<0.2	96	6	<1	4	<0.0002	1	21	0.07	<2	<0.004	<5	<0.5	34000
LF-11	25-Sep-96	<1	<0.01	<2	<0.4	130	7	<2	5	<0.0002	<2	24	<0.1	<4	<0.02	<10	<1	40000
Duplicate	25-Sep-96	<1	<0.01	<2	<0.4	130	6	<2	5	<0.0002	2	24	<0.1	<4	<0.02	<10	<1	40000
LF-11	19-Dec-96	<0.5	<0.02	<1	<0.2	93	5	<1	3	<0.0002	2	19	<0.02	<2	<0.04	<5	<0.5	31000
Duplicate	19-Dec-96	<0.5	<0.02	<1	<0.2	80	4	<1	3	<0.0002	1	17	0.10	<2	<0.04	<5	<0.5	29000
LF-12	1-Nov-93	<0.05	0.022	<0.5	<0.02	3.7	2.7	<0.1	0.9	<0.0003	<0.1	8.1	<0.4	<0.2	0.014	<1	<0.05	3400
LF-12	17-Feb-94	<0.05	0.004	<0.5	<0.02	2.9	1.9	<0.1	0.7	<0.0002	<0.1	5.9	<0.4	<0.2	0.014	<1	<0.05	2700
LF-12	24-May-94	<0.05	0.008	<0.05	<0.02	3.6	2.4	<0.1	1	<0.0002	<0.1	7.1	0.049	<0.3	0.017	<1	<0.05	3100
LF-12	22-Sep-94	<0.05	<0.005	<0.05	0.02	3.4	2.2	<0.1	1.1	<0.0002	<0.1	6.7	0.02	<0.2	0.02	<1	<0.05	3100
LF-12	19-Dec-94	<0.05	<0.005	<0.5	0.02	3.5	2.3	<0.1	1.1	<0.0002	<0.1	6.9	0.01	<0.2	0.03	<1	<0.05	3200
LF-12	15-Mar-95	<0.05	<0.002	<0.1	0.02	3	2	<0.1	1	<0.0002	<0.1	6.7	<0.005	<0.2	0.019	<0.5	<0.05	2600
LF-12	7-Jun-95	<0.05	<0.005	<0.1	0.03	3.3	2.1	<0.1	1.2	<0.0002	<0.1	6.6	<0.005	<0.2	0.04	<0.5	<0.05	2900
LF-12	6-Sep-95	<0.05	<0.005	<0.1	0.02	3.2	2.2	<0.1	1.3	<0.0002	<0.1	6.4	0.01	<0.2	<0.01	<0.5	<0.05	2900
LF-12	18-Dec-95	<0.05	<0.002	<0.1	<0.03	3.8	2.1	<0.1	1.1	<0.0002	<0.1	6.6	<0.005	<0.2	0.055	<0.5	<0.05	3000
LF-12	29-Feb-96	<0.05	<0.002	<0.1	0.02	3	2	<0.1	1.1	0.0002	<0.1	6.1	0.007	<0.2	0.048	<0.5	<0.05	2700
LF-12	2-May-96	<0.05	<0.002	<0.1	<0.02	3	2	<0.1	1.2	<0.0002	<0.1	5.7	0.008	<0.2	0.039	<0.5	<0.05	2800
LF-12	24-Sep-96	<0.05	<0.002	<0.1	0.03	3	2.2	<0.1	1.3	0.0006	0.1	6.1	<0.005	<0.2	0.041	<0.5	<0.05	2700
LF-12	18-Dec-96	0.06	<0.002	<0.1	0.02	2.9	2.1	<0.1	1.2	0.0003	0.1	6.1	<0.002	<0.2	0.043	<0.5	<0.05	2600
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
LF-14	8-Sep-95	<0.005	<0.002	0.01	0.002	0.086	0.78	<0.01	2.8	<0.0002	<0.01	1.9	0.017	<0.02	<0.004	0.10	0.015	310
LF-14	18-Dec-95	<0.005	0.018	0.01	<0.003	0.13	1.1	<0.01	1.4	<0.0002	<0.01	2.6	0.003	<0.02	<0.004	<0.05	0.011	290
LF-14	1-Mar-96	<0.005	0.008	0.01	0.004	0.12	0.9	<0.01	3.5	<0.0002	<0.01	2.3	0.025	<0.02	<0.004	0.09	0.007	340
LF-14	24-Sep-96	<0.005	<0.002	0.01	0.004	0.13	0.92	<0.01	3.8	<0.0002	<0.01	2.3	0.008	<0.02	<0.004	0.12	<0.005	340
LF-14	19-Dec-96	<0.005	0.004	0.01	0.002	0.083	0.75	<0.01	1.5	<0.0002	<0.01	1.8	0.014	<0.02	<0.004	0.07	<0.005	280
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

Table 2

Metals Detected in Groundwater Samples
5050 Coliseum Way and 750-50th Avenue
Oakland, California

(Concentrations reported in parts per million [ppm])

Sample ID	Sample Date	Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Mercury	Molyb-denum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc
LF-15	8-Sep-95	<0.05	<0.01	<0.1	<0.02	2.1	14	<0.1	<0.1	<0.0002	<0.1	37	0.07	<0.2	<0.02	0.9	<0.05	570
LF-15	29-Feb-96	0.014	0.003	0.01	0.031	1.8	12	<0.01	0.03	<0.0002	<0.01	32	0.078	<0.02	<0.02	1.4	<0.005	590
LF-15	24-Sep-96	0.056	<0.01	0.01	0.024	1.8	11	<0.01	<0.01	<0.0002	<0.01	30	0.19	<0.02	<0.02	2.0	<0.005	550
LF-16	7-Dec-93	<0.05	<0.05	<0.5	<0.02	10	5.9	<0.1	0.4	<0.003	<0.1	16	<0.4	<0.2	<0.1	<1	<0.05	3400
LF-16	17-Feb-94	<0.05	<0.002	<0.5	0.04	15	8.3	<0.1	21	<0.0002	<0.1	24	<0.4	<0.2	<0.04	<1	<0.05	5200
LF-16	25-May-94	<0.05	<0.002	<0.5	0.02	12	7	<0.1	25	<0.0002	<0.1	20	<0.01	<0.3	<0.004	<1	<0.05	4100
LF-16	21-Sep-94	<0.05	<0.005	<0.05	0.03	11	6.2	<0.1	22	<0.0002	<0.1	17	<0.05	<0.2	<0.01	<1	<0.05	3700
LF-16	19-Dec-94	<0.05	<0.005	<0.5	0.03	10	6	<0.1	22	<0.0002	<0.1	17	<0.2	<0.2	<0.01	<1	0.08	3300
LF-16	15-Mar-95	<0.05	<0.02	<0.1	0.03	8.2	4.9	<0.1	21	<0.0002	<0.1	16	<0.05	<0.2	<0.04	<0.5	<0.05	3300
LF-16	8-Jun-95	<0.05	0.015	<0.1	0.03	8.2	5.1	<0.1	19	<0.0002	<0.1	15	<0.05	<0.2	<0.01	<0.5	0.06	2900
LF-16	8-Sep-95	<0.05	0.006	0.3	0.02	8.4	5.6	<0.1	18	<0.0002	<0.1	15	<0.02	<0.2	<0.01	0.7	<0.05	2800
LF-16	19-Dec-95	<0.05	<0.005	<0.1	0.02	7.5	4.6	<0.1	18	<0.0002	<0.1	13	<0.005	<0.2	<0.01	<0.5	0.07	2700
LF-16	29-Feb-96	<0.05	0.01	<0.1	0.03	7.8	5.1	<0.1	16	<0.0002	<0.1	14	<0.005	<0.2	0.004	<0.5	0.05	2700
LF-16	2-May-96	<0.05	<0.005	<0.1	<0.02	6.8	4.9	<0.1	16	<0.0002	<0.1	13	<0.005	<0.2	<0.01	<0.5	<0.05	2300
LF-16	24-Sep-96	<0.05	<0.005	<0.1	0.02	7.1	4.6	<0.1	17	<0.0002	<0.1	12	<0.005	<0.2	<0.01	0.7	<0.05	2400
LF-16	19-Dec-96	<0.05	<0.005	<0.1	0.02	6.9	4.3	<0.1	16	<0.0002	<0.1	12	<0.02	<0.2	<0.01	<0.5	<0.05	2400
LF-17	8-Dec-93	<0.005	0.004	0.11	<0.002	<0.005	0.011	<0.01	<0.01	<0.0003	<0.01	0.04	<0.04	<0.02	<0.004	<0.1	0.008	0.1
LF-17	15-Feb-94	<0.005	<0.002	0.05	<0.002	<0.005	0.009	<0.01	<0.01	<0.0002	<0.01	0.03	<0.04	<0.02	<0.004	<0.1	0.007	0.05
LF-17	22-Sep-94	<0.001	<0.002	0.06	<0.0005	<0.001	0.005	<0.002	<0.002	<0.0002	0.003	0.015	<0.005	0.005	<0.004	<0.02	0.006	0.035
LF-17	14-Mar-95	<0.001	<0.002	0.065	<0.0005	<0.001	0.006	<0.002	<0.002	<0.002	<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-17	28-Feb-96	<0.001	0.002	0.087	<0.0005	0.005	0.007	0.01	<0.002	<0.0002	<0.002	0.023	<0.002	<0.004	<0.004	<0.01	0.003	0.092
LF-17	25-Sep-96	<0.001	0.003	0.066	<0.0005	0.002	0.004	<0.002	<0.002	<0.0002	0.002	0.018	<0.002	<0.004	<0.004	<0.01	0.004	0.041
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
LF-F1	29-Feb-96	<0.001	0.023	0.026	<0.0005	0.26	0.054	<0.002	<0.002	<0.0002	0.01	0.061	<0.005	<0.004	<0.004	<0.01	<0.001	37
LF-F1	25-Sep-96	0.001	0.22	0.021	<0.0005	0.078	0.099	<0.002	<0.002	<0.0002	0.013	0.078	<0.002	<0.004	<0.004	0.02	<0.001	30
MW-1	5-Nov-91	<0.002	0.073	0.085	<0.001	<0.005	0.008	<0.01	<0.005	<0.0003	0.02	0.032	<0.005	<0.02	<0.004	<0.1	<0.005	2.7
MW-1	27-Oct-92	<0.005	0.084	0.09	<0.002	0.031	0.052	<0.01	<0.01	<0.0003	<0.01	0.3	<0.04	<0.02	<0.004	<0.1	0.007	42
MW-1	5-Mar-93	<0.005	0.024	0.05	<0.002	0.008	0.015	<0.01	<0.01	<0.0003	<0.01	0.11	<0.04	<0.02	<0.004	<0.1	0.006	16
MW-1	25-May-93	<0.005	0.064	0.06	<0.002	<0.005	0.008	<0.01	<0.01	<0.0003	0.02	0.02	<0.04	0.03	<0.004	<0.1	0.007	1.6
MW-1	1-Sep-93	<0.005	0.097	0.07	<0.002	<0.005	0.009	<0.01	<0.01	<0.0003	0.02	0.02	<0.04	<0.02	<0.004	<0.1	0.005	2.3
MW-1	26-Oct-93	<0.005	0.03	0.08	<0.002	0.009	0.012	<0.01	<0.01	<0.0003	<0.01	0.1	<0.04	<0.02	<0.004	<0.1	<0.005	13
MW-1	18-Feb-94	<0.005	0.052	0.1	<0.002	<0.005	0.011	<0.01	<0.01	<0.0002	0.01	0.02	<0.04	<0.02	<0.004	<0.1	0.007	2.8
MW-1	22-Sep-94	<0.001	0.029	0.08	<0.0005	0.005	0.009	<0.002	<0.002	<0.0002	0.007	0.051	<0.005	0.017	<0.01	<0.02	0.01	5
MW-1	14-Mar-95	<0.001	0.033	0.092	<0.0005	<0.001	0.02	<0.002	0.004	<0.0002	0.013	0.019	<0.002	0.079	<0.004	<0.01	0.009	1.8
MW-1	5-Sep-95	<0.001	0.12	0.12	<0.0005	0.002	0.018	0.002	<0.002	<0.0002	0.018	0.014	<0.005	0.029	<0.01	<0.01	0.019	1.4
MW-1	29-Feb-96	<0.001	0.041	0.07	<0.0005	<0.001	0.018	<0.002	0.003	<0.0002	0.009	0.019	<0.002	0.077	<0.004	<0.01	0.009	1.7
MW-1	25-Sep-96	<0.001	0.098	0.084	<0.0005	0.005	0.015	<0.002	<0.002	<0.0002	0.013	0.016	<0.002	0.032	<0.004	<0.01	0.008	2.6
MW-2	5-Nov-92	0.008	2.1	0.013	0.002	7	0.42	<0.01	0.093	0.0055	0.01	1.2	<0.2	<0.2	<0.004	<0.1	<0.005	4200
MW-2	27-Oct-92	<0.05	1.5	<0.5	<0.02	10	1.5	<0.1	0.2	<0.0003	<0.1	4.9	<0.4	<0.2	0.014	<1	<0.05	6000
MW-2 (1)	5-Mar-93	<0.005	0.011	<0.05	<0.002	0.28	0.24	<0.01	0.14	<0.0003	<0.1	1	<0.04	<0.02	<0.01	<0.1	<0.005	290
MW-2	25-May-93	<0.05	1.8	<0.05	<0.02	5.2	0.85	<0.1	<0.1	<0.0003	<0.1	2.4	<0.4	<0.2	<0.004	<1	<0.05	3000
MW-2	1-Sep-93	<0.05	2.1	<0.05	<0.02	5.2	0.77	<0.1	<0.1	<0.0003	<0.1	2.3	<0.4	<0.2	<0.004	<1	<0.05	2700

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

Sample ID	Sample Date	Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Mercury	Molyb-denum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc
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
MW-2	5-Sep-95	<0.05	1.3	<0.1	<0.02	5.2	0.55	<0.1	0.2	<0.0002	<0.1	1.9	0.02	<0.2	<0.2	<0.5	<0.05	2300
MW-2	29-Feb-96	<0.05	1.7	<0.1	<0.02	3	0.3	<0.1	<0.1	<0.0002	<0.1	1	<0.02	<0.2	<0.1	<0.5	<0.05	1700
MW-2 (1)	24-Sep-96	<0.05	0.91	<0.1	0.03	14	1.4	<0.1	0.4	<0.0002	0.3	4.8	<0.05	<0.2	<0.02	<0.5	<0.05	6300
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-3	18-Dec-95	<0.05	<0.002	0.01	<0.03	1.7	1.2	<0.1	0.70	<0.0002	<0.1	3.9	<0.002	<0.2	<0.004	<0.5	<0.05	1200
MW-3	1-Mar-96	<0.005	0.002	0.01	<0.002	0.11	0.21	<0.01	0.09	<0.0002	<0.01	0.6	<0.002	<0.02	<0.004	<0.05	<0.005	170
MW-3	2-May-95	<0.05	<0.002	<0.1	<0.02	0.48	0.82	<0.1	0.40	<0.0002	<0.1	2.3	<0.002	<0.2	<0.004	<0.5	<0.05	630
MW-3	24-Sep-96	0.011	<0.002	0.02	0.005	0.88	1.4	<0.01	0.89	<0.0002	0.04	3.9	<0.002	<0.02	<0.004	<0.05	<0.005	1100
MW-3	18-Dec-96	<0.005	<0.002	0.01	0.003	0.50	0.81	<0.01	0.49	<0.0002	0.03	2.4	0.002	<0.02	<0.004	<0.05	<0.005	710
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
MW-4	29-Feb-96	<0.001	0.003	0.017	<0.0005	0.001	<0.001	<0.002	<0.002	<0.0002	<0.002	0.021	<0.002	<0.004	<0.004	<0.01	0.003	0.24
LF-1-FB	26-Oct-93	<0.005	<0.002	<0.05	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	<0.01	<0.01	<0.04	<0.02	<0.004	<0.1	<0.005	0.035
LF-9-FB	1-Nov-93	<0.005	<0.002	<0.05	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	<0.01	<0.01	<0.04	<0.02	<0.004	<0.1	<0.005	0.038
LF-17-FB	8-Dec-93	<0.005	<0.002	<0.05	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0003	<0.01	<0.01	<0.04	<0.02	<0.004	<0.1	<0.005	0.1
LF-11-FB	18-Feb-94	<0.005	<0.002	<0.05	<0.002	<0.005	<0.005	<0.01	<0.01	<0.0002	<0.01	<0.01	<0.04	<0.02	<0.004	<0.1	<0.005	0.05
LF-3-BB	25-May-94	<0.001	<0.002	<0.01	<0.0005	<0.001	<0.001	<0.002	<0.002	<0.0002	<0.002	<0.002	<0.003	<0.005	<0.004	<0.02	<0.001	0.015
LF-15-BB	8-Sep-95	<0.001	<0.002	<0.002	<0.0005	<0.001	<0.001	<0.002	<0.002	<0.0002	<0.002	<0.002	<0.002	0.005	<0.004	<0.01	<0.001	0.02
LF-11FB	2-May-96	<0.001	<0.002	<0.002	<0.0005	<0.001	<0.001	<0.002	<0.002	<0.0002	<0.002	<0.002	<0.002	<0.004	<0.004	<0.01	<0.001	<0.01

Data entered by MW. Data proofed by RB. QA/QC by SKS.

NOTES

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

Table 3
Gasoline Hydrocarbons and BTEX Detected in Groundwater Samples
5050 Coliseum Way and 750-50th Avenue
Oakland, California

(concentrations reported in parts per million [ppm])

Sample ID	Sample Date	TPHg	Benzene	Ethylbenzene	Toluene	Xylenes
LF-1	04-Nov-91	<0.05	<0.005	<0.005	<0.005	<0.01
LF-1	02-May-96	<0.05	<0.0005	<0.0005	<0.0005	<0.002
LF-1	19-Dec-96	<0.05	<0.0005	<0.0005	<0.0005	<0.002
LF-2	04-Nov-91	<0.05	<0.005	<0.005	<0.005	<0.01
LF-3	04-Nov-91	<0.05	<0.005	<0.005	<0.005	<0.01
LF-3	25-May-94	<0.05	NA	NA	NA	NA
Duplicate	25-May-94	<0.05	NA	NA	NA	NA
LF-3	23-Sep-94	<0.05	NA	NA	NA	NA
Duplicate	23-Sep-94	<0.05	NA	NA	NA	NA
LF-3	20-Dec-94	<0.05	<0.0005	<0.0005	<0.0005	<0.002
Duplicate	20-Dec-94	<0.05	<0.0005	<0.0005	<0.0005	<0.002
LF-3	15-Mar-95	<0.05	<0.0005	<0.0005	<0.0005	<0.002
LF-3	07-Sep-95	<0.05	<0.0005	<0.0005	<0.0005	<0.002
LF-3	01-Mar-96	<0.05	<0.0005	<0.0005	<0.0005	<0.002
LF-3	02-May-96	<0.05	<0.0005	<0.0005	<0.0005	<0.002
LF-3	24-Sep-96	<0.05	NA	NA	NA	NA
LF-3	18-Dec-96	<0.05	<0.0005	<0.0005	<0.0005	<0.002
Duplicate	18-Dec-96	<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-5	19-Dec-96	<0.05	<0.005	<0.005	<0.005	<0.02
LF-6	04-Nov-91	NA	<0.005	<0.005	<0.005	<0.01
LF-7	04-Nov-91	NA	<0.005	<0.005	<0.005	<0.01
LF-8	28-Oct-93	<1.0	NA	NA	NA	NA
LF-8	24-May-94	0.7	NA	NA	NA	NA
LF-8	23-Sep-94	0.4	NA	NA	NA	NA
LF-8	20-Dec-94	0.4	0.003	0.0065	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-8	18-Dec-95	0.3	0.001	0.003	0.0006	0.003
LF-8	29-Feb-96	0.3	0.0026	0.0031	0.0019	0.0032
LF-8	02-May-96	0.18	0.0008	0.0034	<0.0005	<0.002
LF-8	25-Sep-96	0.21	NA	NA	NA	NA
LF-8	18-Dec-96	0.21	0.0012	0.002	<0.0005	<0.002
LF-9	01-Nov-93	<0.1	NA	NA	NA	NA
Duplicate	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
Duplicate	06-Dec-93	0.06	<0.0005	<0.0005	<0.0005	<0.002
LF-14	21-Sep-94	1.4	NA	NA	NA	NA
LF-14	19-Dec-94	1	0.001	<0.0005	0.002	0.012
LF-14	15-Mar-95	1.2	0.001	<0.0005	0.0006	0.015
LF-14	08-Sep-95	1.4	0.0009	<0.0005	0.0007	0.002
LF-14	01-Mar-96	0.8	0.0007	<0.0005	<0.0005	0.0084
LF-14	24-Sep-96	0.9	NA	NA	NA	NA
LF-14	19-Dec-96	0.71	0.0006	<0.0005	<0.0005	0.006
LF-16	19-Dec-96	<0.05	<0.0005	<0.0005	<0.0005	<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 PTC. Data proofed by AJS. QA/QC by SKS.

NOTES

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

FB/BB - Field Blank

NA - not analyzed

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

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

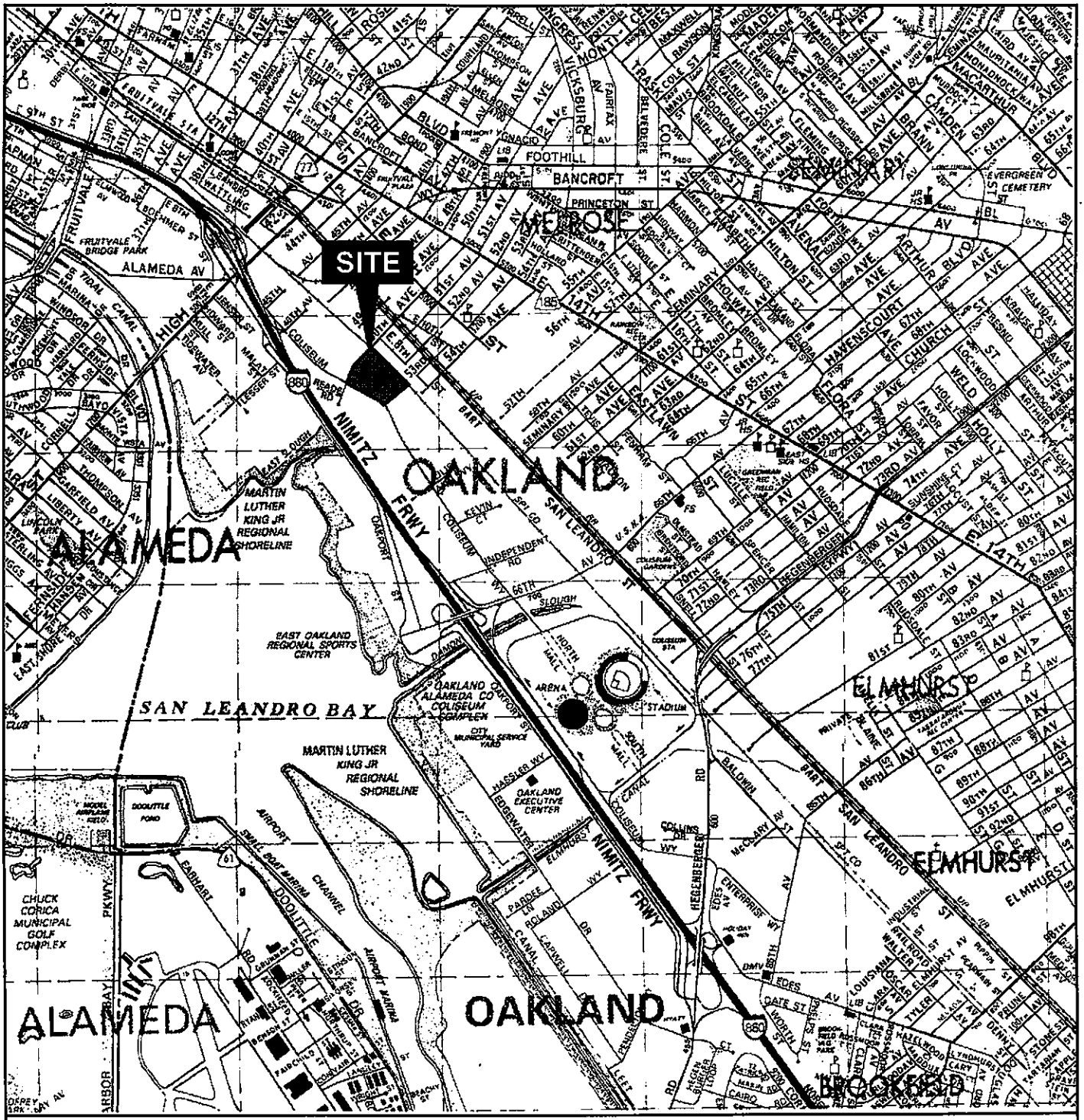
Table 4
Petroleum Hydrocarbons Detected in Groundwater Samples
5050 Coliseum Way and 750-50th Avenue
Oakland, California
(concentrations reported in parts per million [ppm])

Sample ID	Sample Date	TPHd	TPHo	TOG	Hydrocarbons
LF-1	4-Nov-91	0.09	NA	<0.5	<0.5
LF-1	2-May-96	0.3	<0.2	NA	NA
LF-1	19-Dec-96	0.61	<0.2	NA	NA
LF-2	4-Nov-91	0.3	NA	NA	NA
LF-3	4-Nov-91	0.2	NA	NA	NA
LF-3	25-May-94	0.3	0.4	NA	NA
Duplicate	25-May-94	0.3	0.4	NA	NA
LF-3	23-Sep-94	1.2	<0.2	NA	NA
Duplicate	23-Sep-94	1	<0.2	NA	NA
LF-3	20-Dec-94	0.89	0.2	NA	NA
Duplicate	20-Dec-94	0.88	0.2	NA	NA
LF-3	15-Mar-95	0.8	<0.2	NA	NA
LF-3	7-Sep-95	0.62	0.4	NA	NA
LF-3	1-Mar-96	0.65	0.2	NA	NA
LF-3	2-May-96	0.61	<0.2	NA	NA
LF-3	24-Sep-96	0.37	<0.2	NA	NA
LF-3	19-Dec-96	0.52	<0.2	NA	NA
Duplicate	19-Dec-96	0.44	<0.2	NA	NA
LF-4	4-Nov-91	0.1	NA	NA	NA
LF-5	19-Dec-96	<0.05	<0.2	NA	NA
LF-8	28-Oct-93	9.8	NA	2	1
LF-8	24-May-94	4.5	0.6	NA	NA
LF-8	23-Sep-94	6.7	<0.2	NA	NA
LF-8	20-Dec-94	5.6	0.4	NA	NA
LF-8	15-Mar-95	4.1	0.2	NA	NA
LF-8	9-Jun-95	3.8	<0.2	NA	NA
LF-8	7-Sep-95	4.7	0.3	NA	NA
LF-8	18-Dec-95	3.9	0.4	NA	NA
LF-8	29-Feb-96	3.9	0.3	NA	NA
LF-8	2-May-96	2.3	<0.2	NA	NA
LF-8	25-Sep-96	2.5	<0.2	NA	NA
LF-8	18-Dec-96	3.2	<0.2	NA	NA
LF-9	1-Nov-93	0.2	NA	<0.5	<0.5
Duplicate	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
Duplicate	6-Dec-93	0.6	0.4	NA	NA
LF-14	21-Sep-94	<0.3	<0.2	NA	NA
LF-14	19-Dec-94	0.65	<0.2	NA	NA
LF-14	15-Mar-95	0.3	<0.2	NA	NA
LF-14	8-Sep-95	<0.05	<0.2	NA	NA
LF-14	1-Mar-96	0.14	<0.2	NA	NA
LF-14	24-Sep-96	0.17	<0.2	NA	NA
LF-14	19-Dec-96	0.56	<0.2	NA	NA
LF-16	19-Dec-96	0.25	<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 FKW. Data proofed by [illegible]. QA/QC by [illegible]

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.



VOLVO GM

Site Location
5050 Coliseum Way and 750-50th Avenue, Oakland, California

Levine-Fricke-Recon

Figure 1

Project No. 3018

3018SV01.CDR 111496dat

3018GG01.cdr 012897JJB

750 - 50th Avenue

50th AVENUE

6.40 MW-4

6.0

4.44 LF-17

MW-1 6.51

NS LF-6 6.07

NS 5.70 LF-7

NS 5.27 LF-11

LF-F1

4.70 MW-3

MW-2 4.43 NS

LF-15 5.15

FORMER LOCATION OF WASTE-OIL TANK

NS 5.76 * LF-13

LF-3 5.35

ND/520 ND ND ND ND ND

4.04 LF-1 ND/610 ND ND ND ND ND

NS 5.70 LF-9

FORMER LOCATION OF MOTOR OIL TANKS

5.43 LF-8 210/3,200 1.2 ND 2 ND ND

ND/250 ND ND ND ND ND

LF-16 4.48

5050 Coliseum Way

4.80 LF-14 710/560 0.6 ND ND 6 ND

LF-12 2.63

ND/ND ND ND ND ND ND

2.40 LF-5

NS LF-2 4.36

NS LF-4 4.61

1.98 LF-10

COLISEUM WAY

EXPLANATION

LF ● Monitoring well installed by Levine•Fricke

MW ⊙ Monitoring well installed by Aqua Terra Associates, 1991

4.43 Groundwater elevation (feet, mean sea level)

4.0 ~ Groundwater elevation contour (feet, mean sea level); dashed where inferred

* Groundwater elevation corrected for the presence of free product (~0.01 ft.). Correction indicated in Table 1 of text.

TPHg / TPHd
B | T
E | X
(ppb)
TPHo or TOG

NS = Not Sampled

0 50 FEET

30188010.cdr 111595KAI:EM

VOLVO GM

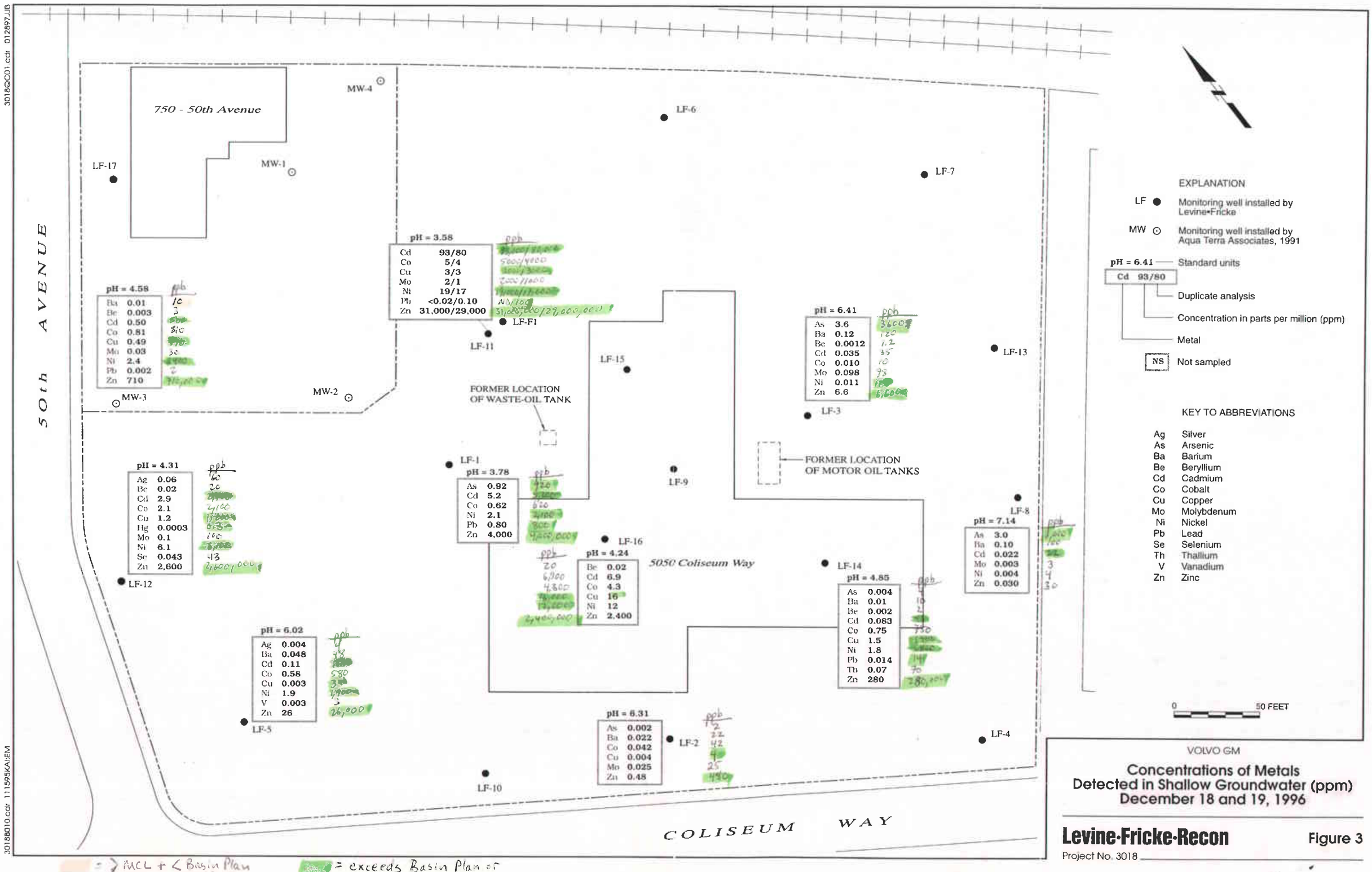
Shallow Groundwater Elevation Contour Map December 18, 1996

Levine-Fricke-Recon

Project No. 3018

Figure 2

3018QC01.cdr 012697JJB



= > MCL + < Basin Plan Nat'l Toxics

= exceeds Basin Plan or Nat'l Toxics values

3018B010.cdr 111595KA1EM

VOLVO GM

Concentrations of Metals Detected in Shallow Groundwater (ppm) December 18 and 19, 1996

Levine-Fricke-Recon Figure 3

Project No. 3018

ATT

Table 6 Groundwater Sample Analytical Chemistry Results
Volvo - GM
750 50th Avenue
Oakland, CA

Chemical	EPA Method	Nat'l Toxics Rule (ppb) Acute	Nat'l Toxics Rule (ppb) Chronic	Monitoring Wells: MW1	MW2	MW3	MW4	MCL[1]	(ppb) Basin Plan 4-day Avg.	Basin Plan 1-hr Avg.
Volatile Organics	8240			ND	ND	ND	ND			
Semi Volatile Organics	8270			ND	ND	ND	ND			
Silver	6010	2.3	None	ND	ND	ND	ND	0.05	2.3[1]	
Arsenic	6010	69	36	ND	0.0667	ND	ND	0.05	36	69
Barium	7060	Not Listed		ND	ND	ND	ND	1.0		
Beryllium	6010		(0.031)	ND	ND	ND	ND	--[2]		
Cadmium	6010		(170)	0.016	5.1	0.429	ND	0.01	9.3	43
Cobalt	6010	Not Listed		ND	1.72	0.557	ND	---		
Chromium, total	6010	1100*	50*	ND	ND	ND	ND	0.05	50*	1100*
Copper	6010	2.9	2.9	ND	0.159	0.506	ND	1.0[3]		
Mercury	7470	2.1	0.025	ND	ND	ND	ND	0.002	0.025	2.1
Molybdenum	6010	Not Listed		ND	ND	ND	ND	---		
Nickel	6010	75	8.3	0.308	4.64	1.62	ND	---	(7.1[1])	(140[1])
Lead	7421	220	8.5	ND	ND	ND	ND	0.005	5.6	140
Antimony	6010		(4300)	ND	ND	ND	ND	---		
Selenium	7740	300	71	ND	ND	ND	ND	0.01		
Thallium	7841		(6.3)	ND	ND	ND	ND	---		
Vanadium	6010	Not Listed		ND	ND	ND	ND	---		
Zinc	6010	95	86	31.8	2720	426	0.134	5.0[3]	(58[1])	(170[1])

All units are mg/L

↑ Values for Saltwater

( ) = values for "other waters", for fish consumption only.

* = Cr(VI)

1 MCL = Maximum Contaminant Level
2 --- = No standard established
3 Secondary drinking water standard values provide acceptable aesthetic and taste characteristics

1 — value for 24-hr Avg. & Instantaneous Max.

9197-TBL.2

Appendix A

Laboratory Certificates and Chain-of-Custody Form

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

ATTN: JENIFER BEATTY
CLIENT PROJ. ID: 3018.95.21
CLIENT PROJ. NAME: VOLVO/GM
C.O.C. NUMBER: 1027

REPORT DATE: 01/09/97

DATE(S) SAMPLED: 12/18/96-12/19/96

DATE RECEIVED: 12/20/96

AEN WORK ORDER: 9612348

PROJECT SUMMARY:

On December 20, 1996, this laboratory received 12 water sample(s).

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

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

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

Larry Klein
Laboratory Director

LEVINE-FRICKE-RECON

SAMPLE ID: LF-12
AEN LAB NO: 9612348.01
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/18/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	0.06 *	0.05	mg/L	01/06/97
As Arsenic	EPA 206.2	ND	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	ND	0.1	mg/L	01/06/97
Be Beryllium	EPA 200.7	0.02 *	0.02	mg/L	01/06/97
Cd Cadmium	EPA 200.7	2.9 *	0.05	mg/L	01/06/97
Co Cobalt	EPA 200.7	2.1 *	0.05	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	0.1	mg/L	01/06/97
Cu Copper	EPA 200.7	1.2 *	0.1	mg/L	01/06/97
Hg Mercury	EPA 245.1	0.0003 *	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	0.1 *	0.1	mg/L	01/06/97
Ni Nickel	EPA 200.7	6.1 *	0.1	mg/L	01/06/97
Pb Lead	EPA 239.2	ND	0.002	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.2	mg/L	01/06/97
Se Selenium	EPA 270.2	0.043 *	0.004	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.5	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.05	mg/L	01/06/97
Zn Zinc	EPA 200.7	2,600 *	0.1	mg/L	01/06/97

Reporting limits elevated for metals due to matrix interference.

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

LEVINE-FRICKE-RECON

SAMPLE ID: MW-3
AEN LAB NO: 9612348-02
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/18/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.005	mg/L	01/06/97
As Arsenic	EPA 206.2	ND	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	0.01 *	0.01	mg/L	01/06/97
Be Beryllium	EPA 200.7	0.003 *	0.002	mg/L	01/06/97
Cd Cadmium	EPA 200.7	0.50 *	0.005	mg/L	01/06/97
Co Cobalt	EPA 200.7	0.81 *	0.005	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	0.01	mg/L	01/06/97
Cu Copper	EPA 200.7	0.49 *	0.01	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/23/96
Mo Molybdenum	EPA 200.7	0.03 *	0.01	mg/L	01/06/97
Ni Nickel	EPA 200.7	2.4 *	0.01	mg/L	01/06/97
Pb Lead	EPA 239.2	0.002 *	0.002	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.02	mg/L	01/06/97
Se Selenium	EPA 270.2	ND	0.004	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.05	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.005	mg/L	01/06/97
Zn Zinc	EPA 200.7	710 *	0.01	mg/L	01/06/97

Reporting limits elevated for metals due to matrix interference.

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-2
AEN LAB NO: 9612348-03
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/18/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	01/03/97
As Arsenic	EPA 206.2	0.002 *	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	0.022 *	0.002	mg/L	01/03/97
Be Beryllium	EPA 200.7	ND	0.0005	mg/L	01/03/97
Cd Cadmium	EPA 200.7	ND	0.001	mg/L	01/03/97
Co Cobalt	EPA 200.7	0.042 *	0.001	mg/L	01/03/97
Cr Chromium	EPA 200.7	ND	0.002	mg/L	01/03/97
Cu Copper	EPA 200.7	0.004 *	0.002	mg/L	01/03/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	ND	0.002	mg/L	01/03/97
Ni Nickel	EPA 200.7	0.025 *	0.002	mg/L	01/03/97
Pb Lead	EPA 239.2	ND	0.002	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	01/03/97
Se Selenium	EPA 270.2	ND	0.004	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	01/03/97
V Vanadium	EPA 200.7	ND	0.001	mg/L	01/03/97
Zn Zinc	EPA 200.7	0.48 *	0.005	mg/L	01/03/97

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-8
AEN LAB NO: 9612348-04
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/18/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	1.2 *	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	2.0 *	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	0.21 *	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	3.2 *	0.05	mg/L	12/30/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	01/03/97
As Arsenic	EPA 206.2	3.0 *	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	0.10 *	0.002	mg/L	01/03/97
Be Beryllium	EPA 200.7	ND	0.0005	mg/L	01/03/97
Cd Cadmium	EPA 200.7	0.022 *	0.001	mg/L	01/03/97
Co Cobalt	EPA 200.7	ND	0.001	mg/L	01/03/97
Cr Chromium	EPA 200.7	ND	0.002	mg/L	01/03/97
Cu Copper	EPA 200.7	ND	0.002	mg/L	01/03/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	0.003 *	0.002	mg/L	01/03/97
Ni Nickel	EPA 200.7	0.004 *	0.002	mg/L	01/03/97
Pb Lead	EPA 239.2	ND	0.002	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	01/03/97
Se Selenium	EPA 270.2	ND	0.004	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	01/03/97
V Vanadium	EPA 200.7	ND	0.001	mg/L	01/03/97
Zn Zinc	EPA 200.7	0.030 *	0.005	mg/L	01/03/97

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-3
AEN LAB NO: 9612348-05
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	0.52 *	0.05	mg/L	12/27/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/27/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	01/03/97
As Arsenic	EPA 206.2	3.6 *	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	0.12 *	0.002	mg/L	01/03/97
Be Beryllium	EPA 200.7	0.0012 *	0.0005	mg/L	01/03/97
Cd Cadmium	EPA 200.7	0.035 *	0.001	mg/L	01/03/97
Co Cobalt	EPA 200.7	0.010 *	0.001	mg/L	01/03/97
Cr Chromium	EPA 200.7	ND	0.002	mg/L	01/03/97
Cu Copper	EPA 200.7	ND	0.002	mg/L	01/03/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	0.098 *	0.002	mg/L	01/03/97
Ni Nickel	EPA 200.7	0.011 *	0.002	mg/L	01/03/97
Pb Lead	EPA 239.2	ND	0.002	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	01/03/97
Se Selenium	EPA 270.2	ND	0.2	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	01/03/97
V Vanadium	EPA 200.7	ND	0.001	mg/L	01/03/97
Zn Zinc	EPA 200.7	6.6 *	0.005	mg/L	01/03/97

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-RECON

SAMPLE ID: LF-103
AEN LAB NO: 9612348-06
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/27/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	0.44 *	0.05	mg/L	12/27/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/27/96

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-14
AEN LAB NO: 9612348.07
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	0.6 *	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	6 *	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	0.71 *	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	0.56 *	0.05	mg/L	12/30/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.005	mg/L	01/06/97
As Arsenic	EPA 206.2	0.004 *	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	0.01 *	0.01	mg/L	01/06/97
Be Beryllium	EPA 200.7	0.002 *	0.002	mg/L	01/06/97
Cd Cadmium	EPA 200.7	0.083 *	0.005	mg/L	01/06/97
Co Cobalt	EPA 200.7	0.75 *	0.005	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	0.01	mg/L	01/06/97
Cu Copper	EPA 200.7	1.5 *	0.01	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	ND	0.01	mg/L	01/06/97
Ni Nickel	EPA 200.7	1.8 *	0.01	mg/L	01/06/97
Pb Lead	EPA 239.2	0.014 *	0.002	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.02	mg/L	01/06/97
Se Selenium	EPA 270.2	ND	0.004	mg/L	12/31/96
Tl Thallium	EPA 200.7	0.07 *	0.05	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.005	mg/L	01/06/97
Zn Zinc	EPA 200.7	280 *	0.01	mg/L	01/06/97

Reporting limits elevated for metals due to matrix interference.

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-11
AEN LAB NO: 9612348-08
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.5	mg/L	01/06/97
As Arsenic	EPA 206.2	ND	0.02	mg/L	12/31/96
Ba Barium	EPA 200.7	ND	1	mg/L	01/06/97
Be Beryllium	EPA 200.7	ND	0.2	mg/L	01/06/97
Cd Cadmium	EPA 200.7	93 *	0.5	mg/L	01/06/97
Co Cobalt	EPA 200.7	5 *	0.5	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	1	mg/L	01/06/97
Cu Copper	EPA 200.7	3 *	1	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	2 *	1	mg/L	01/06/97
Ni Nickel	EPA 200.7	19 *	1	mg/L	01/06/97
Pb Lead	EPA 239.2	ND	0.02	mg/L	01/02/97
Sb Antimony	EPA 200.7	ND	2	mg/L	01/06/97
Se Selenium	EPA 270.2	ND	0.04	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	5	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.5	mg/L	01/06/97
Zn Zinc	EPA 200.7	31,000 *	1	mg/L	01/06/97

Reporting limit elevated for metals due to matrix interference.

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-111
AEN LAB NO: 9612348-09
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.5	mg/L	01/06/97
As Arsenic	EPA 206.2	ND	0.02	mg/L	12/31/96
Ba Barium	EPA 200.7	ND	1	mg/L	01/06/97
Be Beryllium	EPA 200.7	ND	0.2	mg/L	01/06/97
Cd Cadmium	EPA 200.7	80 *	0.5	mg/L	01/06/97
Co Cobalt	EPA 200.7	4 *	0.5	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	1	mg/L	01/06/97
Cu Copper	EPA 200.7	3 *	1	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	1 *	1	mg/L	01/06/97
Ni Nickel	EPA 200.7	17 *	1	mg/L	01/06/97
Pb Lead	EPA 239.2	0.10 *	0.05	mg/L	01/02/97
Sb Antimony	EPA 200.7	ND	2	mg/L	01/06/97
Se Selenium	EPA 270.2	ND	0.04	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	5	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.5	mg/L	01/06/97
Zn Zinc	EPA 200.7	29,000 *	1	mg/L	01/06/97

Reporting limit elevated for metals due to matrix interference.

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-16
AEN LAB NO: 9612348-10
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	0.25 *	0.05	mg/L	12/30/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.05	mg/L	01/06/97
As Arsenic	EPA 206.2	ND	0.005	mg/L	12/31/96
Ba Barium	EPA 200.7	ND	0.1	mg/L	01/06/97
Be Beryllium	EPA 200.7	0.02 *	0.02	mg/L	01/06/97
Cd Cadmium	EPA 200.7	6.9 *	0.05	mg/L	01/06/97
Co Cobalt	EPA 200.7	4.3 *	0.05	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	0.1	mg/L	01/06/97
Cu Copper	EPA 200.7	16 *	0.1	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	ND	0.1	mg/L	01/06/97
Ni Nickel	EPA 200.7	12 *	0.1	mg/L	01/06/97
Pb Lead	EPA 239.2	ND	0.02	mg/L	01/02/97
Sb Antimony	EPA 200.7	ND	0.2	mg/L	01/06/97
Se Selenium	EPA 270.2	ND	0.01	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.5	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.05	mg/L	01/06/97
Zn Zinc	EPA 200.7	2,400 *	0.1	mg/L	01/06/97

Reporting limit elevated for metals due to matrix interference.

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-5
AEN LAB NO: 9612348-11
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	ND	0.05	mg/L	12/28/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/28/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	0.004 *	0.001	mg/L	01/03/97
As Arsenic	EPA 206.2	ND	0.01	mg/L	12/31/96
Ba Barium	EPA 200.7	0.048 *	0.002	mg/L	01/03/97
Be Beryllium	EPA 200.7	ND	0.0005	mg/L	01/03/97
Cd Cadmium	EPA 200.7	0.11 *	0.001	mg/L	01/03/97
Co Cobalt	EPA 200.7	0.58 *	0.001	mg/L	01/03/97
Cr Chromium	EPA 200.7	ND	0.002	mg/L	01/03/97
Cu Copper	EPA 200.7	0.003 *	0.002	mg/L	01/03/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	0.002 *	0.002	mg/L	01/03/97
Ni Nickel	EPA 200.7	1.9 *	0.002	mg/L	01/03/97
Pb Lead	EPA 239.2	ND	0.005	mg/L	01/02/97
Sb Antimony	EPA 200.7	ND	0.004	mg/L	01/03/97
Se Selenium	EPA 270.2	ND	0.02	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	01/03/97
V Vanadium	EPA 200.7	0.003 *	0.001	mg/L	01/03/97
Zn Zinc	EPA 200.7	26 *	0.005	mg/L	01/03/97

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-1
AEN LAB NO: 9612348-12
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	0.61 *	0.05	mg/L	12/30/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.05	mg/L	01/06/97
As Arsenic	EPA 206.2	0.92 *	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	ND	0.1	mg/L	01/06/97
Be Beryllium	EPA 200.7	ND	0.03	mg/L	01/06/97
Cd Cadmium	EPA 200.7	5.2 *	0.05	mg/L	01/06/97
Co Cobalt	EPA 200.7	0.62 *	0.05	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	0.1	mg/L	01/06/97
Cu Copper	EPA 200.7	0.1 *	0.1	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	0.1 *	0.1	mg/L	01/06/97
Ni Nickel	EPA 200.7	2.1 *	0.1	mg/L	01/06/97
Pb Lead	EPA 239.2	0.80 *	0.05	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.2	mg/L	01/06/97
Se Selenium	EPA 270.2	ND	0.04	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.5	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.05	mg/L	01/06/97
Zn Zinc	EPA 200.7	4,000 *	0.1	mg/L	01/06/97

Reporting limit elevated for metals due to matrix interference.

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

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9612348

CLIENT PROJECT ID: 3018.95.21

Quality Control Summary

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

Definitions

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

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

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

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

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

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

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

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9612348
AEN LAB NO: 1227-BLANK
DATE EXTRACTED: 12/27/96
DATE ANALYZED: 12/27/96
INSTRUMENT: C
MATRIX: WATER

Method Blank

	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: 9612348
DATE EXTRACTED: 12/27/96
INSTRUMENT: C
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
12/30/96	LF-8	04	91
12/27/96	LF-3	05	83
12/27/96	LF-103	06	90
12/30/96	LF-14	07	88
12/30/96	LF-16	10	91
12/28/96	LF-5	11	75
12/30/96	LF-1	12	91
QC Limits:			65-125

DATE EXTRACTED: 12/27/96
DATE ANALYZED: 12/27/96
SAMPLE SPIKED: 9612207-03
INSTRUMENT: C

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/L)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	4.00	90	<1	60-110	15

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9612348
AEN LAB NO: 1227-BLANK
DATE ANALYZED: 12/27/96
INSTRUMENT: F
MATRIX: WATER

Method Blank

Analyte	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	0.05 mg/L

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9612348
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
12/27/96	LF-8	04	103
12/27/96	LF-3	05	103
12/27/96	LF-103	06	105
12/27/96	LF-14	07	103
12/27/96	LF-16	10	104
12/27/96	LF-5	11	106
12/27/96	LF-1	12	105
QC Limits:			70-130

DATE ANALYZED: 12/24/96
SAMPLE SPIKED: 9612338-07
INSTRUMENT: F

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Benzene	19.0	90	4	85-109	17
Toluene	64.5	90	4	87-111	16
Hydrocarbons as Gasoline	500	98	2	66-117	19

QUALITY CONTROL DATA

AEN JOB NO: 9612348
SAMPLE SPIKED: DI WATER
DATE(S) ANALYZED: 12/26/96-01/03/97
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	QC Limits RPD
Ag, Silver	ICP/200.7	ND	0.0075	90	3	75-125	16
As, Arsenic	4000/206.2	ND	0.04	114	2	82-140	13
Ba, Barium	ICP/200.7	ND	0.3	109	1	75-125	16
Cd, Cadmium	ICP/200.7	ND	0.015	113	1	75-125	16
Cr, Chromium	ICP/200.7	ND	0.03	101	1	75-125	16
Cu, Copper	ICP/200.7	ND	0.0375	108	<1	75-125	16
Hg, Mercury	Hg/245.1	ND	2.00 ug/L	101	1	89-121	10
Ni, Nickel	ICP/200.7	ND	0.075	109	<1	75-125	16
Pb, Lead	4000/239.2	ND	0.02	110	5	70-122	14
Se, Selenium	4000/270.2	ND	0.08	99	2	79-115	13
Zn, Zinc	ICP/200.7	ND	0.075	110	<1	75-125	16

*** END OF REPORT ***

C-3,S-2 R-3,S-1 R-5,S-A

9612348

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 3018.45.21

Project Location: OAKLAND, CA.

Date: 12/19/96

Serial No.: № 027

Project Name: VOLVO/GM

Field Logbook No.:

Sampler (Signature): JC. [signature]

Samplers: JCK, DRJ

ANALYSES

	SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	TITLE 22 METALS	TPH-D	TPH-MO	TPH-G	BTEX		HOLD	RUSH	REMARKS
01A	LF-12	12/18/96	15:20		1		X								STD TAT
02A	MW-3	↓	14:40		1		X								
03A	LF-2		15:50		1		X								RESULTS TO
04A-F	LF-8		16:25		6		X	X	X	X	X				JENIFER BEATTY
05A-E	LF-3	12/19/96	13:35		6		X	X	X	X	X				
06A-E	LF-103	↓	14:35		5		■	X	X	X	X				TITLE 22 METALS TO
07A-F	LF-14		13:45		6		X	X	X	X	X				BASIN PLAN DETECTION
08A	LF-11		12:20		1		X								LIMITS
09A	LF-111		13:20		1		X								METALS SAMPLE FILTERED
10A-F	LF-16		12:15		6		X	X	X	X	X				+ PRESERVED IN FIELD
11A-F	LF-5		11:00		6		X	X	X	X	X				
12A-F	LF-1	↓	11:40		6		X	X	X	X	X				

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
JC. [signature]	12/20/96	1120	[signature]	12/20/96	1120
[signature]	12/20/96	1400	[signature]	12/20/96	15:00

METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:

Sample Collector: LEVINE•FRICKE•RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: AEN
PLEASANT HILL, CA.

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

COC CDR 101596RYL

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

ATTN: JENIFER BEATTY
CLIENT PROJ. ID: 3018.95.21
CLIENT PROJ. NAME: VOLVO/GM
C.O.C. NUMBER: 1027

REPORT DATE: 01/09/97

DATE(S) SAMPLED: 12/18/96-12/19/96

DATE RECEIVED: 12/20/96

AEN WORK ORDER: 9612348

PROJECT SUMMARY:

On December 20, 1996, this laboratory received 12 water sample(s).

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

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

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

Larry Klein
Laboratory Director

LEVINE-FRICKE-RECON

SAMPLE ID: LF-12
AEN LAB NO: 9612348-01
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/18/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE		METHOD/ CAS#	RESULT		REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace		EPA 200.0	-			Prep Date	12/30/96
#Digestion/ICP		EPA 200.0	-			Prep Date	12/30/96
CCR 17 Metals (Low Level)							
Ag	Silver	EPA 200.7	0.06	*	0.05	mg/L	01/06/97
As	Arsenic	EPA 206.2	ND		0.002	mg/L	12/31/96
Ba	Barium	EPA 200.7	ND		0.1	mg/L	01/06/97
Be	Beryllium	EPA 200.7	0.02	*	0.02	mg/L	01/06/97
Cd	Cadmium	EPA 200.7	2.9	*	0.05	mg/L	01/06/97
Co	Cobalt	EPA 200.7	2.1	*	0.05	mg/L	01/06/97
Cr	Chromium	EPA 200.7	ND		0.1	mg/L	01/06/97
Cu	Copper	EPA 200.7	1.2	*	0.1	mg/L	01/06/97
Hg	Mercury	EPA 245.1	0.0003	*	0.0002	mg/L	12/26/96
Mo	Molybdenum	EPA 200.7	0.1	*	0.1	mg/L	01/06/97
Ni	Nickel	EPA 200.7	6.1	*	0.1	mg/L	01/06/97
Pb	Lead	EPA 239.2	ND		0.002	mg/L	12/31/96
Sb	Antimony	EPA 200.7	ND		0.2	mg/L	01/06/97
Se	Selenium	EPA 270.2	0.043	*	0.004	mg/L	12/31/96
Tl	Thallium	EPA 200.7	ND		0.5	mg/L	01/06/97
V	Vanadium	EPA 200.7	ND		0.05	mg/L	01/06/97
Zn	Zinc	EPA 200.7	2,600	*	0.1	mg/L	01/06/97

Reporting limits elevated for metals due to matrix interference.

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

LEVINE-FRICKE-RECON

SAMPLE ID: MW-3
AEN LAB NO: 9612348-02
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/18/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.005	mg/L	01/06/97
As Arsenic	EPA 206.2	ND	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	0.01 *	0.01	mg/L	01/06/97
Be Beryllium	EPA 200.7	0.003 *	0.002	mg/L	01/06/97
Cd Cadmium	EPA 200.7	0.50 *	0.005	mg/L	01/06/97
Co Cobalt	EPA 200.7	0.81 *	0.005	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	0.01	mg/L	01/06/97
Cu Copper	EPA 200.7	0.49 *	0.01	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/23/96
Mo Molybdenum	EPA 200.7	0.03 *	0.01	mg/L	01/06/97
Ni Nickel	EPA 200.7	2.4 *	0.01	mg/L	01/06/97
Pb Lead	EPA 239.2	0.002 *	0.002	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.02	mg/L	01/06/97
Se Selenium	EPA 270.2	ND	0.004	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.05	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.005	mg/L	01/06/97
Zn Zinc	EPA 200.7	710 *	0.01	mg/L	01/06/97

Reporting limits elevated for metals due to matrix interference.

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-2
AEN LAB NO: 9612348-03
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/18/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT		REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-			Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-			Prep Date	12/30/96
CCR 17 Metals (Low Level)						
Ag Silver	EPA 200.7	ND		0.001	mg/L	01/03/97
As Arsenic	EPA 206.2	0.002	*	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	0.022	*	0.002	mg/L	01/03/97
Be Beryllium	EPA 200.7	ND		0.0005	mg/L	01/03/97
Cd Cadmium	EPA 200.7	ND		0.001	mg/L	01/03/97
Co Cobalt	EPA 200.7	0.042	*	0.001	mg/L	01/03/97
Cr Chromium	EPA 200.7	ND		0.002	mg/L	01/03/97
Cu Copper	EPA 200.7	0.004	*	0.002	mg/L	01/03/97
Hg Mercury	EPA 245.1	ND		0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	ND		0.002	mg/L	01/03/97
Ni Nickel	EPA 200.7	0.025	*	0.002	mg/L	01/03/97
Pb Lead	EPA 239.2	ND		0.002	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND		0.004	mg/L	01/03/97
Se Selenium	EPA 270.2	ND		0.004	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND		0.01	mg/L	01/03/97
V Vanadium	EPA 200.7	ND		0.001	mg/L	01/03/97
Zn Zinc	EPA 200.7	0.48	*	0.005	mg/L	01/03/97

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-8
AEN LAB NO: 9612348-04
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/18/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	1.2 *	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	2.0 *	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	0.21 *	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	3.2 *	0.05	mg/L	12/30/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	01/03/97
As Arsenic	EPA 206.2	3.0 *	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	0.10 *	0.002	mg/L	01/03/97
Be Beryllium	EPA 200.7	ND	0.0005	mg/L	01/03/97
Cd Cadmium	EPA 200.7	0.022 *	0.001	mg/L	01/03/97
Co Cobalt	EPA 200.7	ND	0.001	mg/L	01/03/97
Cr Chromium	EPA 200.7	ND	0.002	mg/L	01/03/97
Cu Copper	EPA 200.7	ND	0.002	mg/L	01/03/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	0.003 *	0.002	mg/L	01/03/97
Ni Nickel	EPA 200.7	0.004 *	0.002	mg/L	01/03/97
Pb Lead	EPA 239.2	ND	0.002	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	01/03/97
Se Selenium	EPA 270.2	ND	0.004	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	01/03/97
V Vanadium	EPA 200.7	ND	0.001	mg/L	01/03/97
Zn Zinc	EPA 200.7	0.030 *	0.005	mg/L	01/03/97

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-3
AEN LAB NO: 9612348-05
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	0.52 *	0.05	mg/L	12/27/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/27/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.001	mg/L	01/03/97
As Arsenic	EPA 206.2	3.6 *	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	0.12 *	0.002	mg/L	01/03/97
Be Beryllium	EPA 200.7	0.0012 *	0.0005	mg/L	01/03/97
Cd Cadmium	EPA 200.7	0.035 *	0.001	mg/L	01/03/97
Co Cobalt	EPA 200.7	0.010 *	0.001	mg/L	01/03/97
Cr Chromium	EPA 200.7	ND	0.002	mg/L	01/03/97
Cu Copper	EPA 200.7	ND	0.002	mg/L	01/03/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	0.098 *	0.002	mg/L	01/03/97
Ni Nickel	EPA 200.7	0.011 *	0.002	mg/L	01/03/97
Pb Lead	EPA 239.2	ND	0.002	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.004	mg/L	01/03/97
Se Selenium	EPA 270.2	ND	0.2	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	01/03/97
V Vanadium	EPA 200.7	ND	0.001	mg/L	01/03/97
Zn Zinc	EPA 200.7	6.6 *	0.005	mg/L	01/03/97

Reporting limit elevated for selenium due to matrix interference.

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

SAMPLE ID: LF-103
AEN LAB NO: 9612348-06
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID,	ND	0.05	mg/L	12/27/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	0.44 *	0.05	mg/L	12/27/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/27/96

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-14
AEN LAB NO: 9612348 07
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	0.6 *	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	6 *	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	0.71 *	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	0.56 *	0.05	mg/L	12/30/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.005	mg/L	01/06/97
As Arsenic	EPA 206.2	0.004 *	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	0.01 *	0.01	mg/L	01/06/97
Be Beryllium	EPA 200.7	0.002 *	0.002	mg/L	01/06/97
Cd Cadmium	EPA 200.7	0.083 *	0.005	mg/L	01/06/97
Co Cobalt	EPA 200.7	0.75 *	0.005	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	0.01	mg/L	01/06/97
Cu Copper	EPA 200.7	1.5 *	0.01	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	ND	0.01	mg/L	01/06/97
Ni Nickel	EPA 200.7	1.8 *	0.01	mg/L	01/06/97
Pb Lead	EPA 239.2	0.014 *	0.002	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.02	mg/L	01/06/97
Se Selenium	EPA 270.2	ND	0.004	mg/L	12/31/96
Tl Thallium	EPA 200.7	0.07 *	0.05	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.005	mg/L	01/06/97
Zn Zinc	EPA 200.7	280 *	0.01	mg/L	01/06/97

Reporting limits elevated for metals due to matrix interference.

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

SAMPLE ID: LF-11
AEN LAB NO: 9612348 08
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.5	mg/L	01/06/97
As Arsenic	EPA 206.2	ND	0.02	mg/L	12/31/96
Ba Barium	EPA 200.7	ND	1	mg/L	01/06/97
Be Beryllium	EPA 200.7	ND	0.2	mg/L	01/06/97
Cd Cadmium	EPA 200.7	93 *	0.5	mg/L	01/06/97
Co Cobalt	EPA 200.7	5 *	0.5	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	1	mg/L	01/06/97
Cu Copper	EPA 200.7	3 *	1	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	2 *	1	mg/L	01/06/97
Ni Nickel	EPA 200.7	19 *	1	mg/L	01/06/97
Pb Lead	EPA 239.2	ND	0.02	mg/L	01/02/97
Sb Antimony	EPA 200.7	ND	2	mg/L	01/06/97
Se Selenium	EPA 270.2	ND	0.04	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	5	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.5	mg/L	01/06/97
Zn Zinc	EPA 200.7	31,000 *	1	mg/L	01/06/97

Reporting limit elevated for metals due to matrix interference.

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

SAMPLE ID: LF-111
AEN LAB NO: 9612348-09
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT		REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion/G. Furnace	EPA 200.0	-			Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-			Prep Date	12/30/96
CCR 17 Metals (Low Level)						
Ag Silver	EPA 200.7	ND		0.5	mg/L	01/06/97
As Arsenic	EPA 206.2	ND		0.02	mg/L	12/31/96
Ba Barium	EPA 200.7	ND		1	mg/L	01/06/97
Be Beryllium	EPA 200.7	ND		0.2	mg/L	01/06/97
Cd Cadmium	EPA 200.7	80	*	0.5	mg/L	01/06/97
Co Cobalt	EPA 200.7	4	*	0.5	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND		1	mg/L	01/06/97
Cu Copper	EPA 200.7	3	*	1	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND		0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	1	*	1	mg/L	01/06/97
Ni Nickel	EPA 200.7	17	*	1	mg/L	01/06/97
Pb Lead	EPA 239.2	0.10	*	0.05	mg/L	01/02/97
Sb Antimony	EPA 200.7	ND		2	mg/L	01/06/97
Se Selenium	EPA 270.2	ND		0.04	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND		5	mg/L	01/06/97
V Vanadium	EPA 200.7	ND		0.5	mg/L	01/06/97
Zn Zinc	EPA 200.7	29,000	*	1	mg/L	01/06/97

Reporting limit elevated for metals due to matrix interference.

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-16
AEN LAB NO: 9612348 10
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	0.25 *	0.05	mg/L	12/30/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.05	mg/L	01/06/97
As Arsenic	EPA 206.2	ND	0.005	mg/L	12/31/96
Ba Barium	EPA 200.7	ND	0.1	mg/L	01/06/97
Be Beryllium	EPA 200.7	0.02 *	0.02	mg/L	01/06/97
Cd Cadmium	EPA 200.7	6.9 *	0.05	mg/L	01/06/97
Co Cobalt	EPA 200.7	4.3 *	0.05	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	0.1	mg/L	01/06/97
Cu Copper	EPA 200.7	16 *	0.1	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	ND	0.1	mg/L	01/06/97
Ni Nickel	EPA 200.7	12 *	0.1	mg/L	01/06/97
Pb Lead	EPA 239.2	ND	0.02	mg/L	01/02/97
Sb Antimony	EPA 200.7	ND	0.2	mg/L	01/06/97
Se Selenium	EPA 270.2	ND	0.01	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.5	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.05	mg/L	01/06/97
Zn Zinc	EPA 200.7	2,400 *	0.1	mg/L	01/06/97

Reporting limit elevated for metals due to matrix interference.

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

SAMPLE ID: LF 5
AEN LAB NO: 9612348 11
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	ND	0.05	mg/L	12/28/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/28/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	0.004 *	0.001	mg/L	01/03/97
As Arsenic	EPA 206.2	ND	0.01	mg/L	12/31/96
Ba Barium	EPA 200.7	0.048 *	0.002	mg/L	01/03/97
Be Beryllium	EPA 200.7	ND	0.0005	mg/L	01/03/97
Cd Cadmium	EPA 200.7	0.11 *	0.001	mg/L	01/03/97
Co Cobalt	EPA 200.7	0.58 *	0.001	mg/L	01/03/97
Cr Chromium	EPA 200.7	ND	0.002	mg/L	01/03/97
Cu Copper	EPA 200.7	0.003 *	0.002	mg/L	01/03/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	0.002 *	0.002	mg/L	01/03/97
Ni Nickel	EPA 200.7	1.9 *	0.002	mg/L	01/03/97
Pb Lead	EPA 239.2	ND	0.005	mg/L	01/02/97
Sb Antimony	EPA 200.7	ND	0.004	mg/L	01/03/97
Se Selenium	EPA 270.2	ND	0.02	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.01	mg/L	01/03/97
V Vanadium	EPA 200.7	0.003 *	0.001	mg/L	01/03/97
Zn Zinc	EPA 200.7	26 *	0.005	mg/L	01/03/97

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

LEVINE-FRICKE-RECON

SAMPLE ID: LF-1
AEN LAB NO: 9612348-12
AEN WORK ORDER: 9612348
CLIENT PROJ. ID: 3018.95.21

DATE SAMPLED: 12/19/96
DATE RECEIVED: 12/20/96
REPORT DATE: 01/09/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/27/96
Toluene	108-88-3	ND	0.5	ug/L	12/27/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/27/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/27/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/27/96
#Digestion/G. Furnace	EPA 200.0	-		Prep Date	12/30/96
#Digestion/ICP	EPA 200.0	-		Prep Date	12/30/96
#Extraction for TPH	EPA 3510	-		Extrn Date	12/27/96
TPH as Diesel	GC-FID	0.61 *	0.05	mg/L	12/30/96
TPH as Oil	GC-FID	ND	0.2	mg/L	12/30/96
CCR 17 Metals (Low Level)					
Ag Silver	EPA 200.7	ND	0.05	mg/L	01/06/97
As Arsenic	EPA 206.2	0.92 *	0.002	mg/L	12/31/96
Ba Barium	EPA 200.7	ND	0.1	mg/L	01/06/97
Be Beryllium	EPA 200.7	ND	0.03	mg/L	01/06/97
Cd Cadmium	EPA 200.7	5.2 *	0.05	mg/L	01/06/97
Co Cobalt	EPA 200.7	0.62 *	0.05	mg/L	01/06/97
Cr Chromium	EPA 200.7	ND	0.1	mg/L	01/06/97
Cu Copper	EPA 200.7	0.1 *	0.1	mg/L	01/06/97
Hg Mercury	EPA 245.1	ND	0.0002	mg/L	12/26/96
Mo Molybdenum	EPA 200.7	0.1 *	0.1	mg/L	01/06/97
Ni Nickel	EPA 200.7	2.1 *	0.1	mg/L	01/06/97
Pb Lead	EPA 239.2	0.80 *	0.05	mg/L	12/31/96
Sb Antimony	EPA 200.7	ND	0.2	mg/L	01/06/97
Se Selenium	EPA 270.2	ND	0.04	mg/L	12/31/96
Tl Thallium	EPA 200.7	ND	0.5	mg/L	01/06/97
V Vanadium	EPA 200.7	ND	0.05	mg/L	01/06/97
Zn Zinc	EPA 200.7	4.000 *	0.1	mg/L	01/06/97

Reporting limit elevated for metals due to matrix interference.

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

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9612348

CLIENT PROJECT ID: 3018.95.21

Quality Control Summary

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

Definitions

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

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

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

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

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

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

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

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9612348
AEN LAB NO: 1227-BLANK
DATE EXTRACTED: 12/27/96
DATE ANALYZED: 12/27/96
INSTRUMENT: C
MATRIX: WATER

Method Blank

	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: 9612348
DATE EXTRACTED: 12/27/96
INSTRUMENT: C
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
12/30/96	LF-8	04	91
12/27/96	LF-3	05	83
12/27/96	LF-103	06	90
12/30/96	LF-14	07	88
12/30/96	LF-16	10	91
12/28/96	LF-5	11	75
12/30/96	LF-1	12	91
QC Limits:			65-125

DATE EXTRACTED: 12/27/96
DATE ANALYZED: 12/27/96
SAMPLE SPIKED: 9612207-03
INSTRUMENT: C

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/L)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	4.00	90	<1	60-110	15

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9612348
AEN LAB NO: 1227-BLANK
DATE ANALYZED: 12/27/96
INSTRUMENT: F
MATRIX: WATER

Method Blank

Analyte	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	0.05 mg/L

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9612348
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
12/27/96	LF-8	04	103
12/27/96	LF-3	05	103
12/27/96	LF-103	06	105
12/27/96	LF-14	07	103
12/27/96	LF-16	10	104
12/27/96	LF-5	11	106
12/27/96	LF-1	12	105
QC Limits:			70-130

DATE ANALYZED: 12/24/96
SAMPLE SPIKED: 9612338-07
INSTRUMENT: F

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Benzene	19.0	90	4	85-109	17
Toluene	64.5	90	4	87-111	16
Hydrocarbons as Gasoline	500	98	2	66-117	19

QUALITY CONTROL DATA

AEN JOB NO: 9612348
SAMPLE SPIKED: DI WATER
DATE(S) ANALYZED: 12/26/96-01/03/97
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	QC Limits RPD
Ag, Silver	ICP/200.7	ND	0.0075	90	3	75-125	16
As, Arsenic	4000/206.2	ND	0.04	114	2	82-140	13
Ba, Barium	ICP/200.7	ND	0.3	109	1	75-125	16
Cd, Cadmium	ICP/200.7	ND	0.015	113	1	75-125	16
Cr, Chromium	ICP/200.7	ND	0.03	101	1	75-125	16
Cu, Copper	ICP/200.7	ND	0.0375	108	<1	75-125	16
Hg, Mercury	Hg/245.1	ND	2.00 ug/L	101	1	89-121	10
Ni, Nickel	ICP/200.7	ND	0.075	109	<1	75-125	16
Pb, Lead	4000/239.2	ND	0.02	110	5	70-122	14
Se, Selenium	4000/270.2	ND	0.08	99	2	79-115	13
Zn, Zinc	ICP/200.7	ND	0.075	110	<1	75-125	16

*** END OF REPORT ***

C-3,5-2 R-3,5-1 R-5,5-4

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9612348

Project No.: 3018.95.21	Project Location: OAKLAND, CA.	Date: 12/19/96	Serial No.: Nº 1027
Project Name: VOLVO/GM	Field Logbook No.:		
Sampler (Signature): JC Ke			Samplers: JCK, DRJ

SAMPLES						ANALYSES							
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	TITLE 22 METALS	TPH-D	TPH-mo	TPH-S	BTEX	HOLD	RUSH	REMARKS
01A LF-12	12/18/96	15:20		1		X							STD TAT
02A MW-3		14:40		1		X							
03A LF-2		15:50		1		X							
04A-F LF-8		16:25		6		X	X	X	X	X			RESULTS TO JENIFER BEATY
05A-E LF-3	12/19/96	13:35		6		X	X	X	X	X			
06A-E LF-103		14:35		5		[redacted]	X	X	X	X			TITLE 22 METALS TO BASIN PLAN DETECTION LIMITS
07A-F LF-14		13:45		6		X	X	X	X	X			
08A LF-11		12:20		1		X							
09A LF-111		13:20		1		X							
10A-F LF-16		12:15		6		X	X	X	X	X			METALS SAMPLE FILTERED + PRESERVED IN FIELD
11A-F LF-5		11:00		6		X	X	X	X	X			
12A-F LF-1		11:40		6		X	X	X	X	X			

RELINQUISHED BY: (Signature) JC, Ke	DATE 12/20/96	TIME 1120	RECEIVED BY: (Signature) [signature]	DATE 12/20/96	TIME 1120
RELINQUISHED BY: (Signature) [signature]	DATE 12/20/96	TIME 1400	RECEIVED BY: (Signature) [signature]	DATE 12/20/96	TIME 15:00
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE•FRICKE•RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: AEN
PLEASANT HILL, CA.

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

COC CDR :01596RYL

Appendix B

Water-Quality Sampling Forms

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21 Date: 12/19/96

Project Name: Volvo/GM Sample No.: LF-1

Sample Location: LF-1 ☐ FB:

Samplers Name: JCK DRJ ☐ DUP:

Sampling Plan Prepared By: JCK

Sampling Method:

- ☐ Centrifugal Pump
- ☐ Submersible Pump
- ☒ Hand Bail
- ☐ Extraction Well Port
- ☐ Disposable Bailer
- ☒ Teflon Bailer
- ☐ _____ (Other)

Analyses Requested	Number and Types of Bottle used
TPH-d+o	2 L. GL.
Title 22 METALS	1 L. PLASTIC
TPH-g	3 VOA

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

Well Number: LF-1 Well Diameter:

Depth to Water: 3.52 ☒ 2" (0.16 Gallon/Feet)

l Depth: 20.00 ☐ 4" (0.65 Gallon/Feet

eight of Water Column: 16.48 ☐ 5" (1.02 Gallon/Feet)

Volume in Well: 2.64 ☐ 6" (1.47 Gallon/Feet)

20.00
3.52
16.48
.16
9888
1648
2.6368

16.48
.8
13184

20.00
13.18
6.82

80% DTW 6.82

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
10:26								START
10:29		3		21.0	4.91	7120		SL. TURBID
10:32		6		21.4	4.90	7300		MOD TURBID
10:34		9		21.4	4.27	12180		TURBID
10:37		11		21.5	3.78	14040		TURBID / DEWATER
[illegible]								
11:40	6.75							SAMPLE

t Depth:

Comments: METAL SAMPLE FILTERED IN FIELD
(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.28NOV94.YL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo/GM

Sample Location: LF-2

Samplers Name: JCK

Sampling Plan Prepared By: JCK

Sampling Method:

- ☐ Centrifugal Pump
- ☐ Submersible Pump
- ☒ Hand Bail
- ☐ Extraction Well Port
- ☐ Disposable Bailer
- ☒ Teflon Bailer
- ☐ _____ (Other)

Date: 12/18/96

Sample No.: LF-2

- ☐ FB:
- ☐ DUP:

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

14.75
5.48
9.27
.16
5562
927
14832

14.75
9.27 7.42
.8 7.33
7416

80% DTW 7.33

Method of Shipment: AEN (Lab Name)

- ☒ Courier
- ☐ Hand Deliver:

Well Number: MW-2

Depth to Water: 5.48

Well Depth: 14.75

Height of Water Column: 9.27

Volume in Well: 1.48

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
1340								START
13:43		1.5		21.5	6.28	4050		TURBID
13:45		3.0		21.6	6.30	3950		TURBID
1348		4.5		21.9	6.31	3880		TURBID

t Depth:

Comments: SAMPLE FILTERED IN FIELD

(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.28N/OYSARYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo/GM

Sample Location: LF-3

Samplers Name: JCK DRJ

Sampling Plan Prepared By: JCK

Sampling Method:

- ☐ Centrifugal Pump
- ☐ Submersible Pump
- ☒ Hand Bail
- ☐ Extraction Well Port
- ☒ Disposable Bailer
- ☐ Teflon Bailer
- ☐ _____ (Other)

Date: 12/19/96

Sample No.: LF-3

~~☒ FB: LF-3-FB JGL~~

☒ DUP: LF-103

14.93
5.63
9.30
.16
5580
930
14880

Analyses Requested	Number and Types of Bottle used
TITLE 22 METALS	1 L. PLASTIC
TPH-g BTEX	2 x 3 VOA
TPH-d + mo	2 x 2 L.

Method of Shipment

AEN (Lab Name)

☒ Courier _____

☐ Hand Deliver:

Well Number: LF-3

Depth to Water: 5.63

Well Depth: 14.93

Height of Water Column: 9.30

Volume in Well: 1.49

Well Diameter:

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

80% DTW _____

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
13:18								START
13:21		1.5		21.9	6.38	3.81		turbid/mod
13:24		3.0		22.0	6.41	3.84		turbid/mod
1327		4.5		22.0	6.41	3.81		turbid/~~mod~~ slight
1335	6.17							SAMPLE
1435								DUPLICATE

Inlet Depth: _____

Comments: 0 ~~MW~~ SAMPLE FOR METALS FIELD FILTERED

(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.28NOV94RYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo / GM

Sample Location: LF-5

Samplers Name: JCK DRJ

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 12/19/96

Sample No.: LF-5

☐ FB:

☐ DUP:

- ☐ Centrifugal Pump
- ☐ Submersible Pump
- ☒ Hand Bail
- ☐ Extraction Well Port
- ☐ Disposable Bailer
- ☒ Teflon Bailer
- ☐ _____ (Other)

Analyses Requested	Number and Types of Bottle used
TPH-d+o	2 L. GL.
TITLE 22 METALS	1 L. PL.
TPH-g	3 VOA

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

Well Number: LF-5

Depth to Water: 5.63

Depth: 21.10

Height of Water Column: 15.47

Volume in Well: 2.48

Well Diameter:

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

21.10
5.63
15.47
.16
9282
1547
2.4752

15.47 × .8 = 12376

21.10 − 12.38 = 8.72

80% DTW 8.72

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
10:44								START
10:47		2.5		20.4	5.83	12040		TURBID
10:49		5		21.0	5.96	15050		TURBID
10:51		7.5		21.5	6.02	15940		TURBID
11:00	8.65							SAMPLE

Depth: _____

Comments: SAMPLE FOR METALS FILTERED IN FIELD

(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.28NOV94.RYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo / GM

Sample Location: LF-8

Samplers Name: JCK

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 12/18/95

Sample No.: LF-8

☐ FB:

☐ DUP:

- ☒ Centrifugal Pump
- ☐ Submersible Pump
- ☐ Hand Bail
- ☐ Extraction Well Port
- ☐ Disposable Bailer
- ☒ Teflon Bailer
- ☐ _____ (Other)

Analyses Requested	Number and Types of Bottle used
TPH-D+O	2 L. GL.
~~EPA~~ TITLE 22 METALS	1 L. PL.
TPH-G BTEX	3 VOA

Method of Shipment: AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number: LF-8

Depth to Water: 5.48

Depth: 14.65

Height of Water Column: 9.17

Volume in Well: 5.96

Well Diameter:

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

14.65
5.48
9.17
.65
4585
5502
5.9605

9.17 × .8 = 7336

14.65 − 7.34 = 7.31

80% DTW 7.31

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
16:08								START
16:10		6		18.6	6.96	2890		TURBID
16:12	DEWATER	12		18.9	7.07	2790		TURBID / OFF
16:15								ON
16:17		18		19.0	7.14	2680		SL. TURBID/OFF
16:25	5.98							SAMPLE

: Depth:

Comments: METALS SAMPLE FIELD FILTERED

(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.28NOV94RYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 7018.95.21 Date: 12/18/96

Project Name: VOLVO/GM Sample No.: LF-11

Sample Location: LF-11 ☐ FB: ____

Samplers Name: JCK DRJ ☐ DUP: ____

Sampling Plan Prepared By: JCK

Sampling Method: ____

- ☒ Centrifugal Pump
- ☐ Submersible Pump
- ☐ Hand Bail
- ☐ Extraction Well Port
- ☒ Disposable Bailer
- ☐ Teflon Bailer
- ☐ ____ (Other)

Analyses Requested	Number and Types of Bottle used
TITLE 22 METALS	1 L. PLASTIC

Method of Shipment: AEN (Lab Name) ☒ Courier ____ ☐ Hand Deliver:

Well Number: LF-11

Depth to Water: 3.85

Depth: 20.01

Height of Water Column: 16.16

Volume in Well: 10.50

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

80% DTW ____

20.01
3.85
16.16
.65
8080
9696
10.504

16.16 3.85
3.23
2
3232 7.08

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
10:04								START
10:05		11		21.5	4.38	14100		SC. TURBID
10:15								ON
10:17		22		23.0	3.58	19850		CLEAR
10:17		23						OFF
11:35	16.47							
12:20	15.96							SAMPLE
13:20								DUPLICATE

t Depth: ____

Comments: (Recommended Method For Purging Well) SAMPLE FILTERED IN FIELD

WTR.QLTY.SMPLNG.INFO.28NOV94.RYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Date: 12/18/96

Project Name: VOLVO/GM

Sample No.: LF-12

ample Location: LF-12

☐ FB: ____

Samplers Name: JCK

☐ DUP: ____

Sampling Plan Prepared By: JCK

Sampling Method: ____

- ☒ Centrifugal Pump
- ☐ Submersible Pump
- ☐ Hand Bail
- ☐ Extraction Well Port
- ☐ Disposable Bailer
- ☒ Teflon Bailer
- ☐ ____ (Other)

Analyses Requested	Number and Types of Bottle used
TITLE 22 METALS	1 L. PLASTIC

Method of Shipment

AEN (Lab Name)

☒ Courier ____

☐ Hand Deliver:

Well Number: LF-12

Depth to Water: 6.07

Depth: 14.70

Height of Water Column: 8.63

Volume in Well: 5.61

Well Diameter:

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

14.70
6.07
8.63
.65
4315
5178
5.6095

8.63 · .8 = 6904

14.70 − 6.90 = 780

80% DTW 7.80

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
14:00								START
14:02		6		20.0	4.33	7440		SL. TURBID
14:03		9						OFF / DEWATER
14:13	~11.30							ON
14:15	DEWATER	10		21.4	4.31	8930		MOD TURBID / OFF
15:20	7.80							SAMPLE

Depth: ____

Comments: SAMPLED FIELD FILTERED

*Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.28NOV94RYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21

Project Name: Volvo/GM

Sample Location: LF-14

Samplers Name: JCK DRJ

Sampling Plan Prepared By: JCK

Sampling Method:

Date: 12/19/96

Sample No.: LF-14

☐ FB:

☐ DUP:

- ☐ Centrifugal Pump
- ☐ Submersible Pump
- ☒ Hand Bail
- ☐ Extraction Well Port
- ☐ Disposable Bailer
- ☒ Teflon Bailer
- ☐ _____ (Other)

Analyses Requested

TPH-D +O

TITLE 22 METALS

TPH-g BTEX

Number and Types of Bottle used

2 L. GL.

1 L. PLASTIC

3 VOA

Method of Shipment

AEN (Lab Name)

☒ Courier

☐ Hand Deliver:

Well Number:

Depth to Water: 0.92

Depth: 25.00

Height of Water Column: 18.08

Volume in Well: 2.89

Well Diameter:

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

25.00
6.92
18.08
.16
10848
1808
28928

18.08
2
3.616

18.08
.8
14464

25.00
14.46
1059

~~6.92~~
~~3.62~~

80% DTW 10.54

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
13:04								START
13:07		3		18.9	4.55	6170		TURBID
13:11		6		18.9	4.83	6710		TURBID
13:16		9		19.2	4.85	5890		TURBID/DEWATER
13:45	8.10							SAMPLE

t Depth:

Comments: SAMPLE FOR METALS FIELD FILTERED

(Recommended Method For Purging Well)

WTRQLTY.SMPLNG.INFO.28NOV94RYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: *30189521

Date: 12/18/96

Project Name: Volvo/GM

Sample No.: LF-16

Sample Location: LF-16

☐ FB: ____

Samplers Name: JCK DRJ

☐ DUP: ____

Sampling Plan Prepared By: JCK

Sampling Method: ____

- ☐ Centrifugal Pump
- ☐ Submersible Pump
- ☒ Hand Bail
- ☐ Extraction Well Port
- ☐ Disposable Bailer
- ☐ Teflon Bailer
- ☐ ____ (Other)

Analyses Requested	Number and Types of Bottle used
TPH-D +O	2L GL.
TITLE 22 METALS	1 L. PL.
TPH-G BTEX	3 VOA

Method of Shipment: AEN (Lab Name)

☒ Courier ____

☐ Hand Deliver:

24.50
7.08
17.42
.16
10452
1742
2.7872

17.42
.8
1393 6

24.50
13.94
1056

Well Number: LF-16

Depth to Water: 7.08

Depth: 24.50

Height of Water Column: 17.42

Volume in Well: 2.79

Well Diameter:

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

80% DTW 10.56

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
11:21								START
11:24		3		19.9	4.36	10340		TURBID
11:27		6		19.7	4.27	12460		TURBID; SPLOTCHES OF SHEEN
11:30	DEWATER	9		19.7	4.24	12590		TURBID; SPLOTCHES OF SHE
215	10.50							SAMPLE

t Depth: ____

Comments: METAL SAMPLE FILTERED IN FIELD

(Recommended Method For Purging Well)

WTR.QLTY.SMPLNG.INFO.28NOV94RYL

WATER-QUALITY SAMPLING INFORMATION

Project No.: 3018.95.21 Date: 12/18/96

Project Name: VOLVO/GM Sample No.: MW-3

Sample Location: MW-3 ☐ FB: ____

Samplers Name: JCK ☐ DUP: ____

Sampling Plan Prepared By: JCK

Sampling Method: ____

- ☐ Centrifugal Pump
- ☐ Submersible Pump
- ☒ Hand Bail
- ☐ Extraction Well Port
- ☐ Disposable Bailer
- ☒ Teflon Bailer
- ☐ ____ (Other)

Analyses Requested	Number and Types of Bottle used
~~EPA~~ TITLE 22 METALS	1 L. PL.

Method of Shipment

AEN (Lab Name)

☒ Courier ____

☐ Hand Deliver:

Well Number: MW-3

Depth to Water: 5.31

Depth: 27.00

Height of Water Column: 21.69

Volume in Well: 3.47

Well Diameter:

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

27.00
5.31
21.69
.16
13014
2169
34704

21.69
.8
17352

27.00
17.35
965

80% DTW 9.65

TIME	Depth to Water	Volume Purged (Gallons)	Totalizer Reading	Temperature °C	pH (SU)	Cond (mohs)	Turbidity (NTU)	Remarks
14:25								START
14 28		4		20.4	4.52	6860		TURBID
14:30		8		19.9	4.54	4390		TURBID
14:33		12		20.0	4.58	5750		TURBID
14:40	9.60							SAMPLE

t Depth: ____

Comments: SAMPLE FILTERED IN FIELD

(Recommended Method For Purging Well)