Electro-
Coatings
Inc.

893 Carleton Street
Berkeley, CA 94710
Tel: 510/284-8332
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January 31, 1996

Susan L. Hugo
Alameda County Dept. of Environmental Health
Environmental Protection Division
1131 Harbor Bay Parkway, #250
Alameda, CA 94502-6577

RE: Results of Quarterly Groundwater Sampling at 1401 and 1421 Park Avenue on December 14, 1995

Dear Susan:

Enclosed is one copy of the subject report which was prepared for Electro-Coatings by Geraghty & Miller Inc. The next sampling event is scheduled for March, 1996.

We look forward to meeting with you as soon as the results of the pilot test are complete.

Yours very truly,

Judy Garvens
Administrative Manager

cc: Mr. Sum Arigala, RWQCB

HUGO6.WPS

GERAGHTY
& MILLER, INC.
Environmental Services

January 15, 1996
Project No. RC0304.003

Ms. Judy Garvens
Administrative Manager
Electro-Coatings Inc.
893 Carleton Street
Berkeley, California 94710

SUBJECT: Quarterly Groundwater Sampling Results, Electro-Coatings Facility at 1401 and 1421 Park Avenue, Emeryville, California.

Dear Ms. Garvens:

This letter presents the results of the quarterly groundwater sampling activities performed on behalf of ECI at the Electro-Coatings Inc. (ECI) site referenced above. The scope of work for the quarterly sampling was presented in the Geraghty & Miller letter dated July 19, 1995. The Regional Water Quality Control Board (RWQCB) and the Alameda County Health Care Services Agency, Department of Environmental Health (ACDEH), reviewed and concurred with the scope of work (RWQCB letter to ECI dated July 28, 1995).

FIELD ACTIVITIES AND LABORATORY ANALYSIS

Monitoring Wells MW-3A, MW-6, MW-12, MW-16, MW-17 and, MW-18 were sampled on December 14, 1995. Monitoring Wells MW-4 MW-13, MW-18A, and MW-20, were sampled on December 15, 1995. Both sampling events occured as part of the quarterly groundwater monitoring program. Prior to purging, depth to water and total well depth measurements were obtained from each well. The wells were then purged of at least three casing volumes of water. The well purging was accomplished using an aboveground diaphragm pump. New polyethylene tubing was used for each well. The purged water was monitored for temperature, pH, and specific conductance. A summary of the field data is presented in Table 1. Depth-to-water and groundwater elevation data are presented in Table 2.

Following purging, groundwater samples were collected using a new polyethylene bailer for each well. The water samples were collected into the appropriate USEPA-approved containers, placed on ice, and transported to Sequoia Analytical Laboratory in Walnut Creek, California, along with chain-of-custody documentation.

RESULTS

DEPTH TO WATER AND GROUNDWATER ELEVATIONS

Depth to water ranged from 2.95 feet below ground surface (Well MW-20) to 5.60 feet below ground surface (Well MW-18A). A summary of depth to water and groundwater elevations is presented in Table 2. The groundwater elevations and a groundwater contour map are presented in Figure 1. Based on the depth to water data recorded on December 14, 1995, the direction of groundwater flow is toward the west, which is consistent with the previous sampling event (Geraghty & Miller, September 19, 1995).

LABORATORY ANALYTICAL RESULTS

Chromium Results

The historical and current analytical results for total and hexavalent chromium are summarized in Table 3 and the current results are presented in Figure 2. In general, the highest concentrations of both total and hexavalent chromium were detected in wells to the west of the ECI building and in the wells in Horton Street. The highest concentrations of both total and hexavalent chromium were detected in Well MW-13, on the ECI site. Decreasing concentrations were detected with increased distance downgradient of the ECI site in Wells MW-6 and MW-16. Of the 10 wells sampled as part of the quarterly sampling program, three (MW-3A, MW-18A, and MW-20) are deep wells. Hexavalent chromium was detected at 7.5 micrograms per liter (µg/L) in MW-3A but was not detected in the water samples collected from wells MW-18A and MW-20. Total chromium was detected in each of the three wells in concentrations of 110 µg/L, 17 µg/L, and 22 µg/L, respectively.

Purgeable Halocarbon Results

The historical and current analytical results for purgeable halocarbons are summarized in Table 4. Figure 3 presents the concentrations of trichloroethylene (TCE) and tetrachloroethylene (PCE) detected during the December 1995 sampling event. TCE, PCE, and cis- and trans-1,2-DCE were the most frequently detected halocarbons. TCE was the most frequently detected compound, and it was detected at the highest concentrations. The highest concentrations of TCE were detected in Wells MW-4 and MW-16, to the west of the ECI site. The concentration of TCE detected in the farthest downgradient well (Well MW-6) was approximately an order of magnitude less than the concentrations detected in Well MW-4. These results are similar to the results from the September 1995 sampling event.

Geraghty & Miller appreciates the opportunity to be of service. If you have any questions regarding this report, please do not hesitate to call.

Sincerely,
GERAGHTY & MILLER, INC.

Jeffrey W. Hawkins, R.G.
Senior Geologist

Gary W. Keyes, P.E.
Principal Engineer/Associate
Richmond, California Office Manager

Attachments:

	Table 1	Summary of Field Data
	Table 2	Summary of Groundwater Elevation Data
	Table 3	Summary of Groundwater Analytical Data – Total and Hexavalent Chromium
	Table 4	Summary of Groundwater Analytical Data – Purgeable Halocarbons
	Figure 1	Groundwater Contour Map
	Figure 2	Groundwater Analytical Results, December 1995 – Total Chromium and Hexavalent Chromium
	Figure 3	Groundwater Analytical Results, December 1995 – TCE and PCE
	Attachment 1	Copies of Laboratory Analytical Reports and Chain-of-Custody Documentation

Table 1: Summary of Field Sampling Data
Electro-Coatings, Inc.
1401 and 1421 Park Avenue, Emeryville, California

Well	Date	Calculated Purge Volume (a) (gallons)	Actual Purge Volume (gallons)	Field Measurements: pH	SC (μmhos/cm)	Temperature (°F)	Depth to Water (feet)	Measured Depth of Well (feet)	Casing Diameter (inches)
MW-3A	19-Sep-95	15	6 (c)	7.3	2,800	71.2	5.70	61.21	1.5
	14-Dec-95	3.41	4	7.0	2,000	65.6	5.00	16.1	
MW-4	19-Sep-95	4	4	7.1	1,970	70.9	6.50	19.9	1.5
	15-Dec-95	4.47	5	6.0	2,350	65.8	5.36	19.9	
MW-6	19-Sep-95	3	5	7.0	1,482	70.3	3.72	16.24	1.5
	14-Dec-95	2.27	3	6.5	3,650	67.6	3.01	11.69	
MW-12	19-Sep-95	39	40	6.2	2,320	71.1	6.61	26.56	4
	14-Dec-95	56.10	60	6.0	2,180	69.1	5.12	26.7	
MW-13	19-Sep-95	36	35	6.4	2,610	69.6	6.94	15	6
	15-Dec-95	55.88	25 (b)	6.0	2,990	68.6	5.45	15.02	
MW-16	19-Sep-95	40	40	6.7	1,710	32.0	4.64	25	4
	14-Dec-95	54	55	6.5	2,750	64.4	4.28	25.05	
MW-17	19-Sep-95	39	40	6.8	2,410	72.1	4.78	24.5	4
	14-Dec-95	55.25	20 (b)	6.0	3,140	65.3	3.31	24.56	
MW-18	19-Sep-95	40	20 (b)	4.1	1,920	73.6	5.00	25.34	4
	14-Dec-95	56.86	57	5.0	3,140	69.2	3.48	25.35	

Table 1: Summary of Field Sampling Data
Electro-Coatings, Inc.
1401 and 1421 Park Avenue, Emeryville, California

Well	Date	Calculated Purge Volume (a) (gallons)	Actual Purge Volume (gallons)	Field Measurements: pH	Field Measurements: SC (µmhos/cm)	Field Measurements: Temperature (°F)	Depth to Water (feet)	Measured Depth of Well (feet)	Casing Diameter (inches)
MW-18A	19-Sep-95	68	20 (c)	6.0	920	72.1	5.76	40.72	4
	15-Dec-95	91.31	40 (b)	6.5	1,960	64.9	5.66	40.72	
MW-20	19-Sep-95	89	90	6.9	2,530	68.4	2.47	47.97	4
	15-Dec-95	116.87	120	7.0	2,560	70.6	2.95	47.9	

(a) Based on three casing volumes.

(b) Purged dry.

(c) Represents approximately one casing volume. Equipment problems encountered during sampling.

SC = Specific Conductance

Table 2: Summary of Groundwater Elevation Data
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitoring Well	Date Sampled	DTW (feet)	TOC (feet - MSL)	Groundwater Elevation (feet - MSL)
MW-1	19-Apr-95	Not Located		--
	19-Sep-95	NM		--
	14-Dec-95	NM		--
MW-2	19-Apr-95	Not Located		--
	19-Sep-95	NM		--
	14-Dec-95	NM		--
MW-3A	19-Apr-95	4.87	16.1	11.23
	19-Sep-95	5.70		10.40
	14-Dec-95	5.00		11.10
MW-3B	19-Apr-95	6.76	16.3	9.54
	19-Sep-95	NM		--
	14-Dec-95	NM		--
MW-3C	19-Apr-95	6.19	16.21	10.02
	19-Sep-95	NM		--
	14-Dec-95	NM		--
MW-4	19-Apr-95	6.52	14.29	7.77
	19-Sep-95	6.50		7.79
	14-Dec-95	5.36		8.93
MW-5	19-Apr-95	6.95	15.87	8.92
	19-Sep-95	NM		--
	14-Dec-95	NM		--
MW-6	19-Apr-95	3.55	9.24	5.69
	19-Sep-95	3.72		5.52
	14-Dec-95	3.01		6.23
MW-7	19-Apr-95	Not Located		
	19-Sep-95	NM		--
	14-Dec-95	NM		--
MW-8	19-Apr-95	5.50	16.42	10.92
	19-Sep-95	NM		--
	14-Dec-95	NM		--
MW-9	19-Apr-95	6.67	16.03	9.36
	19-Sep-95	NM		--
	14-Dec-95	NM		--

Table 2: Summary of Groundwater Elevation Data
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitoring Well	Date Sampled	DTW (feet)	TOC (feet - MSL)	Groundwater Elevation (feet - MSL)
MW-10	19-Apr-95	6.94	15.1	8.16
	19-Sep-95	NM		--
	14-Dec-95	NM		--
MW-11	19-Apr-95	6.38	15.94	9.56
	19-Sep-95	NM		--
	14-Dec-95	NM		--
MW-12	19-Apr-95	6.52	16.04	9.52
	19-Sep-95	6.61		9.43
	14-Dec-95	5.12		10.92
MW-13	19-Apr-95	6.75	15.37	8.62
	19-Sep-95	6.94		8.43
	14-Dec-95	5.45		9.92
MW-14	19-Apr-95	6.71	15.49	8.78
	19-Sep-95	NM		--
	14-Dec-95	NM		--
MW-15	19-Apr-95	7.94	17.26	9.32
	19-Sep-95	NM		--
	14-Dec-95	NM		--
MW-16	19-Apr-95	4.57	12.08	7.51
	19-Sep-95	4.64		7.44
	14-Dec-95	4.28		7.80
MW-17	19-Apr-95	4.48	12.76	8.28
	19-Sep-95	4.78		7.98
	14-Dec-95	3.31		9.45
MW-18	19-Apr-95	4.79	13.57	8.78
	19-Sep-95	5.00		8.57
	14-Dec-95	3.48		10.09
MW-18A	19-Apr-95	4.67	13.36	8.69
	19-Sep-95	5.76		7.60
	14-Dec-95	5.60		7.76
MW-19	19-Apr-95	Not Located		--
	19-Sep-95	NM		--
	14-Dec-95	NM		--

Table 2: Summary of Groundwater Elevation Data
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitoring Well	Date Sampled	DTW (feet)	TOC (feet - MSL)	Groundwater Elevation (feet - MSL)
MW-20	19-Apr-95	2.78	14.93	12.15
	19-Sep-95	2.47		12.46
	14-Dec-95	2.95		11.98
MW-21	19-Apr-95	Not Located		--
	19-Sep-95	NM		--
	14-Dec-95	NM		--

Notes:

NM = Not Measured as part of the quarterly sampling program.

Table 3: Summary of Groundwater Analytical Data
Total and Hexavalent Chromium
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L) (b)
MW-1	Aug-77	200	NA
	Sep-81	ND(<1)	NA
	Oct-81	1	NA
	Nov-81	2.5	NA
	Dec-81	32	NA
	Feb-85	ND(<20)	ND(<20)
	Oct-91	ND(<50)	50
	20-Apr-95	Not Located	
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**
MW-2	Aug-77	60	NA
	Sep-81	ND(<1)	NA
	Oct-81	4	NA
	Nov-81	1.1	NA
	Dec-81	2	NA
	20-Apr-95	Not Located	
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**
MW-3A	Aug-77	50	NA
	Sep-81	ND (<1)	NA
	Oct-81	ND (<1)	NA
	Nov-81	230	NA
	Dec-81	14	NA
	Feb-85	770	80
	Oct-91	130	ND (<500)
	20-Apr-95	36	ND (<5.0)
	19-Sep-95	65	ND (<5.0)
	14-Dec-95	**110**	**7.5**
MW-3B	Aug-77	60	NA
	Sep-81	ND (<1)	NA
	Oct-81	480	NA
	Nov-81	2,000	NA
	Dec-81	190	NA
	Feb-85	NA	NA
	Oct-91	110,000	100,000
	20-Apr-95	8,000	7,600
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**

Table 3: Summary of Groundwater Analytical Data
Total and Hexavalent Chromium
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L) (b)
MW-3C	Aug-77	18,000	NA
	Sep-81	30,000	NA
	Oct-81	28,000	NA
	Nov-81	22,000	NA
	Dec-81	17,000	NA
	Feb-85	7,250	6,300
	Oct-91	2,300	1,600
	20-Apr-95	1,400	ND (<5.0)
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**
MW-4	Aug-77	90,000	67,000
	Sep-81	57,000	NA
	Oct-81	61,000	NA
	Nov-81	56,000	NA
	Dec-81	55,000	NA
	Feb-85	59,000	59,000
	Jun-91	17,000	17,800
	Oct-91	22,000	22,000
	Jul-94	NA	6,300
	21-Apr-95	16,000	17,000
	19-Sep-95	14,000	15,000
	15-Dec-95	**16,000**	**16,000**
MW-5	Aug-77	360,000	295,000
	Sep-81	NA	NA
	Oct-81	880,000	2,240
	Nov-81	610,000	NA
	Dec-81	280,000	NA
	Feb-85	480,000	480,000
	Jun-91	390,000	NA
	Oct-91	260,000	250,000
	Jul-94	NA	454,000
	21-Apr-95	140,000	160,000
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**

Table 3: Summary of Groundwater Analytical Data
Total and Hexavalent Chromium
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L) (b)
MW-6	Sep-81	630	NA
	Oct-81	80	NA
	Nov-81	790	NA
	Dec-81	630	NA
	Feb-85	3,330	3,300
	Jun-91	NA	NA
	Oct-91	31,000	25,000
	Jul-94	NA	4,800
	20-Apr-95	39,000	40,000
	19-Sep-95	45,000	43,000
	14-Dec-95	**35,000**	**50,000**
MW-7	20-Apr-95	Not Located	
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**
MW-8	Sep-81	ND (<1)	NA
	Oct-81	2	NA
	Nov-81	3	NA
	Dec-81	70	NA
	Feb-85	ND (<20)	ND (<20)
	Jun-91	NA	NA
	Oct-91	ND (<50)	ND (<10)
	21-Apr-95	33	ND (<5.0)
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**
MW-9	Jan-81	258,000	185,000
	Sep-81	NA	NA
	Oct-81	NA	NA
	Nov-81	NA	NA
	Dec-81	NA	NA
	Feb-85	892,000	877,000
	Jun-91	NA	NA
	Oct-91	140,000	130,000
	21-Apr-95	66,000	70,000
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**

Table 3: Summary of Groundwater Analytical Data
Total and Hexavalent Chromium
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L) (b)
MW-10	Jan-81	17,000	14,000
	Sep-81	NA	NA
	Oct-81	NA	NA
	Nov-81	NA	NA
	Dec-81	NA	NA
	Feb-85	746,000	740,000
	Jun-91	NA	NA
	Oct-91	490,000	450,000
	21-Apr-95	160,000	170,000
	19-Sep-95	NS	NS
	15-Dec-09	**NS**	**NS**
MW-11	Jan-81	129,000	115,000
	Jul-81	340	34
	Sep-81	NA	NA
	Oct-81	NA	NA
	Nov-81	NA	NA
	Dec-81	NA	NA
	Feb-85	2,440	2,410
	Jun-91	NA	NA
	Oct-91	470	410
	20-Apr-95	420	950
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**
MW-12	Jan-81	32,000	12,000
	Jul-81	NA	NA
	Sep-81	NA	NA
	Oct-81	NA	NA
	Nov-81	NA	NA
	Dec-81	NA	NA
	Feb-85	240,000	240,000
	Jun-91	38,000	29,700
	Oct-91	44,000	39,000
	20-Apr-95	10,000	10,000
	19-Sep-95	18,000	19,000
	14-Dec-95	**17,000**	**20,000**

Table 3: Summary of Groundwater Analytical Data
Total and Hexavalent Chromium
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	Total Chromium (μg/L) (a)	Hexavalent Chromium (μg/L) (b)
MW-13	Jan-81	381,000	325,000
	Jul-81	NA	NA
	Sep-81	NA	NA
	Oct-81	NA	NA
	Nov-81	NA	NA
	Dec-81	NA	NA
	Feb-85	676,000	676,000
	Jun-91	NA	NA
	Oct-91	510,000	430,000
	Jul-94	230,000	130,000
	20-Apr-95	210,000	220,000
	19-Sep-95	200,000	210,000
	15-Dec-95	**170,000**	**210,000**
MW-14	Feb-85	654,000	632,000
	Jun-91	NA	
	Oct-91	320,000	310,000
	Jul-94	NA	
	21-Apr-95	130,000	140,000
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**
MW-15	Feb-85	ND (<20)	ND (<20)
	Jun-91	30	NA
	Oct-91	ND (<50)	ND (<10)
	Jul-94	NA	ND (<10)
	21-Apr-95	ND (<10)	ND (<5.0)
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**
MW-16	Feb-85	460,000	460,000
	Jun-91	NA	NA
	Oct-91	240,000	290,000
	Jul-94	120,000	320,000
	20-Apr-95	100,000	100,000
	19-Sep-95	83,000	87,000
	14-Dec-95	**57,000**	**74,000**

Table 3: Summary of Groundwater Analytical Data
Total and Hexavalent Chromium
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L) (b)
MW-17	Feb-85	90,000	38,200
	Jun-91	NA	NA
	Oct-91	250,000	300,000
	Jul-94	190,000	200,000
	20-Apr-95	150,000	160,000
	19-Sep-95	170,000	180,000
	14-Dec-95	**160,000**	**200,000**
MW-18	Feb-85	60,500	55,000
	Jun-91	NA	NA
	Oct-91	31,000	24,000
	Jul-94	NA	NA
	22-Apr-95	24,000	23,000
	19-Sep-95	25,000	27,000
	14-Dec-95	**20,000**	**22,000**
MW-18A	Jun-83	20	ND (<20)
	Feb-85	ND (<20)	ND (<20)
	Oct-91	ND (<50)	ND (<10)
	20-Apr-95	ND (<10)	ND (<5.0)
	19-Sep-95	ND (<10)	ND (<5.0)
	15-Dec-95	**17**	**ND (<5.0)**
MW-19	Jun-83	NA (<20)	NA (<20)
	Feb-85	20	20
	Oct-91	NA	NA
	20-Apr-95	Not Located	
	19-Sep-95	NS	NS
	15-Dec-95	**NS**	**NS**
MW-20	Jun-83	1,300	1,200
	Aug-83	90	40
	Feb-85	ND (<20)	ND (<20)
	Oct-91	ND (<50)	14
	21-Apr-95	ND (<10)	ND (<5.0)
	19-Sep-95	ND (<10)	ND (<5.0)
	15-Dec-95	**22**	**ND (<5.0)**
MW-21	Jun-83	20	ND (<20)
	Feb-85	40	ND (<20)
	20-Apr-95	Not Located	
	19-Sep-95	**NS**	**NS**
	15-Dec-95	**NS**	**NS**

Table 3: Summary of Groundwater Analytical Data
Total and Hexavalent Chromium
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L) (b)

Notes:

(a) Analysis by USEPA Method 200.7.
(b) Analysis by USEPA Method 7196.

NA Not Analyzed
NS Not Sampled as part of the quarterly monitoring program.
ND( ) Not detected; laboratory method detection limit in parentheses.
µg/L Micrograms per liter.

Table 4: Summary of Groundwater Analytical Data - Purgeable Halocarbons
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	TCE (µg/L) (a)	PCE (µg/L) (a)	TCA (µg/L) (a)	1,1-DCE (µg/L) (a)	trans 1,2-DCE (µg/L) (a)	cis 1,2-DCE (µg/L) (a)	1,1-DCA (µg/L) (a)	1,2-DCA (µg/L) (a)	Chloro-benzene (µg/L) (a)	1,2-Dichloro-benzene (µg/L) (a)	Vinyl Chloride (µg/L) (a)
MW-1	21-Mar-85	33	21	ND (<0.5)	ND (<0.5)	ND (<0.5)	NR	ND (<0.5)	NR	NR	NR	ND (<0.5)
	15-Nov-91	11	0.6	ND (<0.5)	0.5	4.8	NR	1.6	NR	NR	NR	ND (<1)
	20-Apr-95	Not Located		---	---	---	---	---	---	---	---	---
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										
MW-2	15-Nov-91	**Not Sampled**		---	---	---	---	---	---	---	---	---
	20-Apr-95	Not Located		---	---	---	---	---	---	---	---	---
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										
MW-3A	29-Oct-91	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NR	ND (<0.5)	NR	NR	NR	ND (<1)
	20-Apr-95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND(<1.0)
	19-Sep-95	0.56	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND(<1.0)
	14-Dec-95	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND(<1.0)**
MW-3B	29-Oct-91	650	6.8	ND (<0.5)	13	45	NR	1.2	NR	NR	NR	6.4
	20-Apr-95	260	ND (<10)	ND (<10)	ND (<10)	23	17	ND (<10)	ND (<10)	ND (<10)	ND (<10)	ND (<20)
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										
MW-3C	11-Jun-85	150	1.7	2.4	ND (<0.5)	23	NR	ND (<0.5)	NR	NR	NR	ND (<0.5)
	21-Oct-91	180	1.7	34	61	26	NR	5.4	NR	NR	NR	18
	20-Apr-95	30	ND(<0.5)	0.66	1.6	ND(<0.5)	11	2.0	ND(<0.5)	ND(<0.5)	ND(<0.5)	2.2
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										

Table 4: Summary of Groundwater Analytical Data - Purgeable Halocarbons
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	TCE (µg/L) (a)	PCE (µg/L) (a)	TCA (µg/L) (a)	1,1-DCE (µg/L) (a)	trans 1,2-DCE (µg/L) (a)	cis 1,2-DCE (µg/L) (a)	1,1-DCA (µg/L) (a)	1,2-DCA (µg/L) (a)	Chloro-benzene (µg/L) (a)	1,2-Dichloro-benzene (µg/L) (a)	Vinyl Chloride (µg/L) (a)
MW-4	4-Nov-91	2,100	31	ND(<5)	ND(<5)	269	NR	ND(<5)	NR	NR	NR	10
	28-Jul-94	6,500	NA	NA	NA	NA	NR	NA	NR	NR	NR	NA
	21-Apr-95	4,400	ND (<50)	ND (<50)	ND (<50)	ND (<50)	430	ND (<50)	ND (<50)	ND (<50)	ND (<50)	ND (<100)
	19-Sep-95	3,500	65	ND (<50)	ND (<50)	92	590	ND (<50)	ND (<50)	ND (<50)	ND (<50)	ND (<100)
	15-Dec-95	**2,900**	**27**	**ND (<10)**	**ND (<10)**	**44**	**330**	**ND (<10)**	**ND (<10)**	**ND (<10)**	**ND (<10)**	**ND (<20)**
MW-5	4-Nov-91	410	8.9	1.3	4.2	120	NR	42				54
	21-Apr-95	210	10	ND (<5)	ND (<5)	13	31	13	ND (<5)	ND (<5)	ND (<5)	ND (<10)
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										
MW-6	11-Jun-85	220	ND (<0.5)	3.9	ND(<5)	54	NR	ND(<5)	NR	NR	NR	ND(<5)
	5-Nov-91	420	5.9	6.4	29	78	NR	ND (<0.5)	NR	NR	NR	19
	28-Jul-94	790	NA	NA	NA	NA	NR	NA	NR	NR	NR	NA
	20-Apr-95	320	ND (<10)	ND (<10)	34	ND (<10)	55	ND (<10)	ND (<10)	ND (<10)	ND (<10)	ND (<20)
	19-Sep-95	210	6.4	ND (<5)	46	12	48	ND (<5)	ND (<5)	5.1	ND (<5)	13
	14-Dec-95	**400**	**ND (<10)**	**ND (<10)**	**74**	**ND (<10)**	**53**	**ND (<10)**	**ND (<10)**	**ND (<10)**	**ND (<10)**	**ND (<20)**
MW-7	20-Apr-95	Not Located		---	---	---	---	---	---	---	---	---
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										
MW-8	10-Jun-85	46	18	ND (<1)	ND (<1)	19	NR	1	NR	NR	NR	3
	11-Jun-85	93	35	ND (<0.5)	1	32	NR	1	NR	NR	NR	NA
	5-Nov-91	38	35	ND (<0.5)	0.8	23	NR	1.8	NR	NR	NR	4.9
	21-Apr-95	40	18	ND(<1.0)	ND(<1.0)	6.7	46	1.2	5.6	ND(<1.0)	ND(<1.0)	16
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										

Table 4: Summary of Groundwater Analytical Data - Purgeable Halocarbons
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	TCE (µg/L) (a)	PCE (µg/L) (a)	TCA (µg/L) (a)	1,1-DCE (µg/L) (a)	trans 1,2-DCE (µg/L) (a)	cis 1,2-DCE (µg/L) (a)	1,1-DCA (µg/L) (a)	1,2-DCA (µg/L) (a)	Chloro-benzene (µg/L) (a)	1,2-Dichloro-benzene (µg/L) (a)	Vinyl Chloride (µg/L) (a)
MW-9	13-Jun-85	700	26	ND (<5)	ND (<5)	31	NR	ND (<5)	NR	NR	NR	ND (<5)
	30-Oct-91	200	11	ND (<0.5)	ND (<0.5)	13	NR	1.3	NR	NR	NR	ND (<1)
	21-Apr-95	73	13	ND (<2)	ND (<2)	ND (<2)	6.4	ND (<2)	ND (<2)	ND (<2)	ND (<2)	ND (<4)
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										
MW-10	12-Jun-85	5,100	81	ND(<50)	ND(<50)	ND(<50)	NR	ND(<50)	NR	NR	NR	ND(<50)
	12-Jun-85	12,000	ND(<50)	ND(<50)	ND(<50)	600	NR	ND(<50)	NR	NR	NR	NA
	7-Nov-91	14,000	ND(<50)	6,500	3,800	640	NR	ND(<50)	NR	NR	NR	ND(<100)
	21-Apr-95	10,000	ND (<100)	1,000	1,200	ND (<100)	900	ND (<100)	ND (<100)	ND (<100)	ND (<100)	ND(<200)
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										
MW-11	12-Jun-85	19	5.3	1.3	ND (<0.5)	3.4	NR	ND (<0.5)	NR	NR	NR	ND (<0.5)
	15-Nov-91	10	1.5	ND (<0.5)	ND (<0.5)	3.1	NR	ND (<0.5)	NR	NR	NR	ND (<1)
	20-Apr-95	67	7.4	ND (<5)	ND (<5)	ND (<5)	6.2	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<10)
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										
MW-12	11-Nov-91	130	10	4.6	3.3	9	NR	1.3	NR	NR	NR	ND (<2)
	20-Apr-95	52	9.4	3.9	9.0	ND (<2.5)	5.0	ND (<2.5)	ND (<2.5)	ND (<2.5)	ND (<2.5)	ND (<5)
	19-Sep-95	67	14	7.2	15	3.8	9.1	1.6	2.9	ND (<1.3)	ND (<1.3)	ND (<2.5)
	15-Dec-95	**79**	**ND(<10)**	**ND(<10)**	**ND(<10)**	**ND(<10)**	**ND(<10)**	**ND(<10)**	**ND(<10)**	**ND(<10)**	**ND(<10)**	**ND(<20)**
MW-13	8-Nov-91	630	8.9	ND (<5)	6.8	89	NR	15	NR	NR	NR	20
	28-Jul-94	770	NA	NA	NA	NA	NR	NA	NR	NR	NR	NA
	20-Apr-95	360	8.9	ND (<5)	ND (<5)	16	70	14	ND (<5)	ND (<5)	ND (<5)	20
	19-Sep-95	240	12.0	ND (<5)	ND (<5)	25	72	18	ND (<5)	ND (<5)	ND (<5)	42
	15-Dec-95	**380**	**ND(<10)**	**ND(<10)**	**ND(<10)**	**17**	**68**	**ND(<10)**	**ND(<10)**	**ND(<10)**	**ND(<10)**	**ND(<20)**

Table 4: Summary of Groundwater Analytical Data - Purgeable Halocarbons
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	TCE (µg/L) (a)	PCE (µg/L) (a)	TCA (µg/L) (a)	1,1-DCE (µg/L) (a)	trans 1,2-DCE (µg/L) (a)	cis 1,2-DCE (µg/L) (a)	1,1-DCA (µg/L) (a)	1,2-DCA (µg/L) (a)	Chloro-benzene (µg/L) (a)	1,2-Dichloro-benzene (µg/L) (a)	Vinyl Chloride (µg/L) (a)
MW-14	21-Mar-85	580	26	ND (<0.5)	ND (<0.5)	ND (<0.5)	NR	ND (<0.5)	NR	NR	NR	ND (<0.5)
	11-Nov-91	4,300	13	17	13	150	NR	19	NR	NR	NR	30
	21-Apr-95	8,100	ND (<10)	ND (<10)	ND (<10)	ND (<10)	36	ND (<10)	ND (<10)	ND (<10)	ND (<10)	ND (<20)
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										
MW-15	13-Jun-85	1,200	ND(<50)	ND(<50)	ND(<50)	410	NR	ND(<50)	NR	NR	NR	ND(<50)
	21-Nov-91	650	ND(<5)	ND (<5)	ND (<5)	220	NR	ND (<5)	NR	NR	NR	ND (<10)
	21-Apr-95	300	ND (<10)	ND (<10)	ND (<10)	130	88	ND (<10)	ND (<10)	ND (<10)	ND (<10)	ND (<20)
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										
MW-16	21-Mar-85	360	42	ND (<0.5)	ND (<0.5)	ND (<0.5)	NR	ND (<0.5)	NR	NR	NR	ND (<0.5)
	19-Nov-91	19,000	ND(<5)	1,300	1,200	2299	NR	ND (<5)	NR	NR	NR	420
	28-Jul-94	22,000	NA	NA	NA	NA	NR	NA	NR	NR	NR	NA
	20-Apr-95	10,000	13	180	390	67	2,400	28	ND (<10)	12	ND (<10)	300
	19-Sep-95	7,800	ND (<125)	190	590	190	2,500	ND (<125)	ND (<125)	ND (<125)	ND (<125)	730
	14-Dec-95	**11,000**	**ND (<0.50)**	**140**	**620**	**100**	**2,300**	**26**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**460**
MW-17	13-Jun-85	200	18	22	46	23	NR	ND (<5)	NR	NR	NR	ND (<5)
	19-Nov-91	460	8.9	30	54	54	NR	7.8	NR	NR	NR	420
	28-Jul-95	780	NA	NA	NA	NA	NR	NA	NR	NR	NR	NA
	20-Apr-95	410	ND (<10)	ND (<10)	37	11	42	ND (<10)	ND (<10)	31	17	ND (<20)
	19-Sep-95	260	9.8	11	42	23	50	ND (<5)	ND (<5)	52	28	ND (<10)
	14-Dec-95	**360**	**13**	**ND (<10)**	**38**	**ND (<10)**	**24**	**ND (<10)**	**ND (<10)**	**27**	**15**	**ND (<20)**

Table 4: Summary of Groundwater Analytical Data - Purgeable Halocarbons
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	TCE (µg/L) (a)	PCE (µg/L) (a)	TCA (µg/L) (a)	1,1-DCE (µg/L) (a)	trans 1,2-DCE (µg/L) (a)	cis 1,2-DCE (µg/L) (a)	1,1-DCA (µg/L) (a)	1,2-DCA (µg/L) (a)	Chloro-benzene (µg/L) (a)	1,2-Dichloro-benzene (µg/L) (a)	Vinyl Chloride (µg/L) (a)
MW-18	12-Jun-85	430	32	52	ND (<0.5)	140	NR	ND (<0.5)	NR	NR	NR	ND (<0.5)
	12-Jun-85	340	ND(<50)	66	ND (<50)	ND (<50)	NR	ND (<50)	NR	NR	NR	NA
	19-Nov-91	560	11	23	ND (<5)	160	NR	ND (<5)	NR	NR	NR	30
	22-Apr-95	330	ND (<10)	16	ND (<10)	13	35	ND (<10)	ND (<10)	ND (<10)	ND (<10)	ND (<20)
	19-Sep-95	200	14	16	ND (<5)	20	34	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<10)
	14-Dec-95	**280**	**ND (<10)**	**ND (<10)**	**ND (<10)**	**ND (<10)**	**18**	**ND (<10)**	**ND (<10)**	**ND (<10)**	**ND (<10)**	**ND (<20)**
MW-18A	13-Jun-85	10	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NR	ND (<0.5)	NR	NR	NR	ND (<0.5)
	19-Nov-91	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NR	ND (<0.5)	NR	NR	NR	ND (<1)
	20-Apr-95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND(<1.0)
	19-Sep-95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND(<1.0)
	15-Dec-95	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND(<1.0)**
MW-19	21-Mar-85	91	23	ND (<0.5)	ND (<0.5)	ND (<0.5)	NR	ND (<0.5)	NR	NR	NR	ND (<0.5)
	20-Apr-95	Not Located		---	---	---	---	---	---	---	---	---
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										
MW-20	15-Nov-91	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NR	ND (<0.5)	NR	NR	NR	ND (<1)
	21-Apr-95	3.5	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND(<1.0)
	19-Sep-95	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND(<1.0)
	15-Dec-95	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND (<0.50)**	**ND(<1.0)**

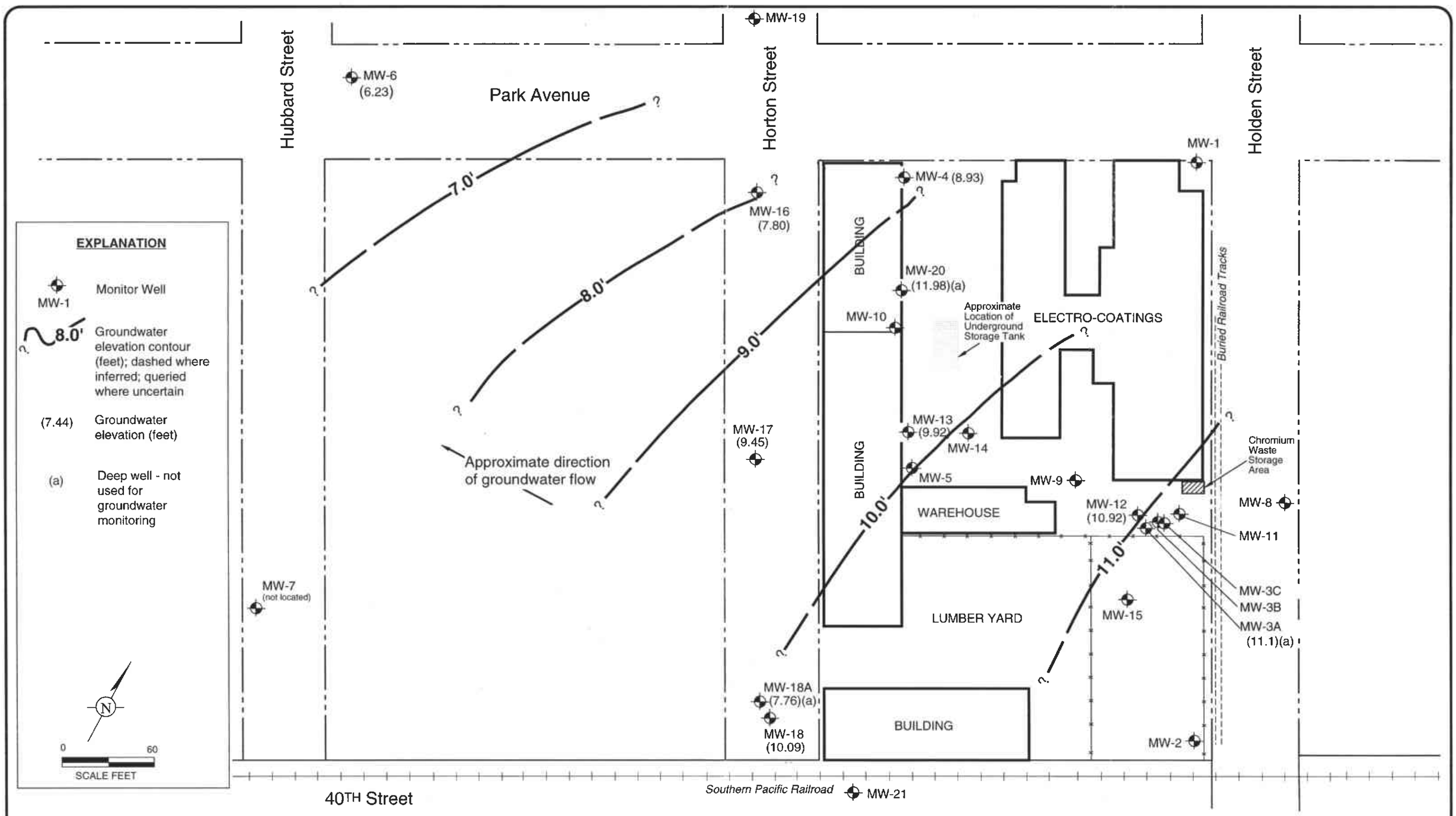
Table 4: Summary of Groundwater Analytical Data - Purgeable Halocarbons
Electro-Coatings Inc.
1401 and 1421 Park Avenue, Emeryville, California

Monitor Well	Date Sampled	TCE (µg/L) (a)	PCE (µg/L) (a)	TCA (µg/L) (a)	1,1-DCE (µg/L) (a)	trans 1,2-DCE (µg/L) (a)	cis 1,2-DCE (µg/L) (a)	1,1-DCA (µg/L) (a)	1,2-DCA (µg/L) (a)	Chloro-benzene (µg/L) (a)	1,2-Dichloro-benzene (µg/L) (a)	Vinyl Chloride (µg/L) (a)
MW-21	13-Jun-85	2,200	ND(<50)	110	NA (<50)	800	NR	NA (<50)	NR	NR	NR	NA (<50)
	21-Apr-95	Not Located		---	---	---	---	---	---	---	---	---
	19-Sep-95	Not Sampled as Part of Quarterly Monitoring Program										
	15-Dec-95	**Not Sampled as Part of Quarterly Monitoring Program**										

NR - Not Reported
NA - Not Analyzed

(a) Analysis by USEPA Method 601

ND( ) Not detected; laboratory method detection limit in parentheses.
TB-LB Trip blank-laboratory blank.
µg/L Micrograms per liter.

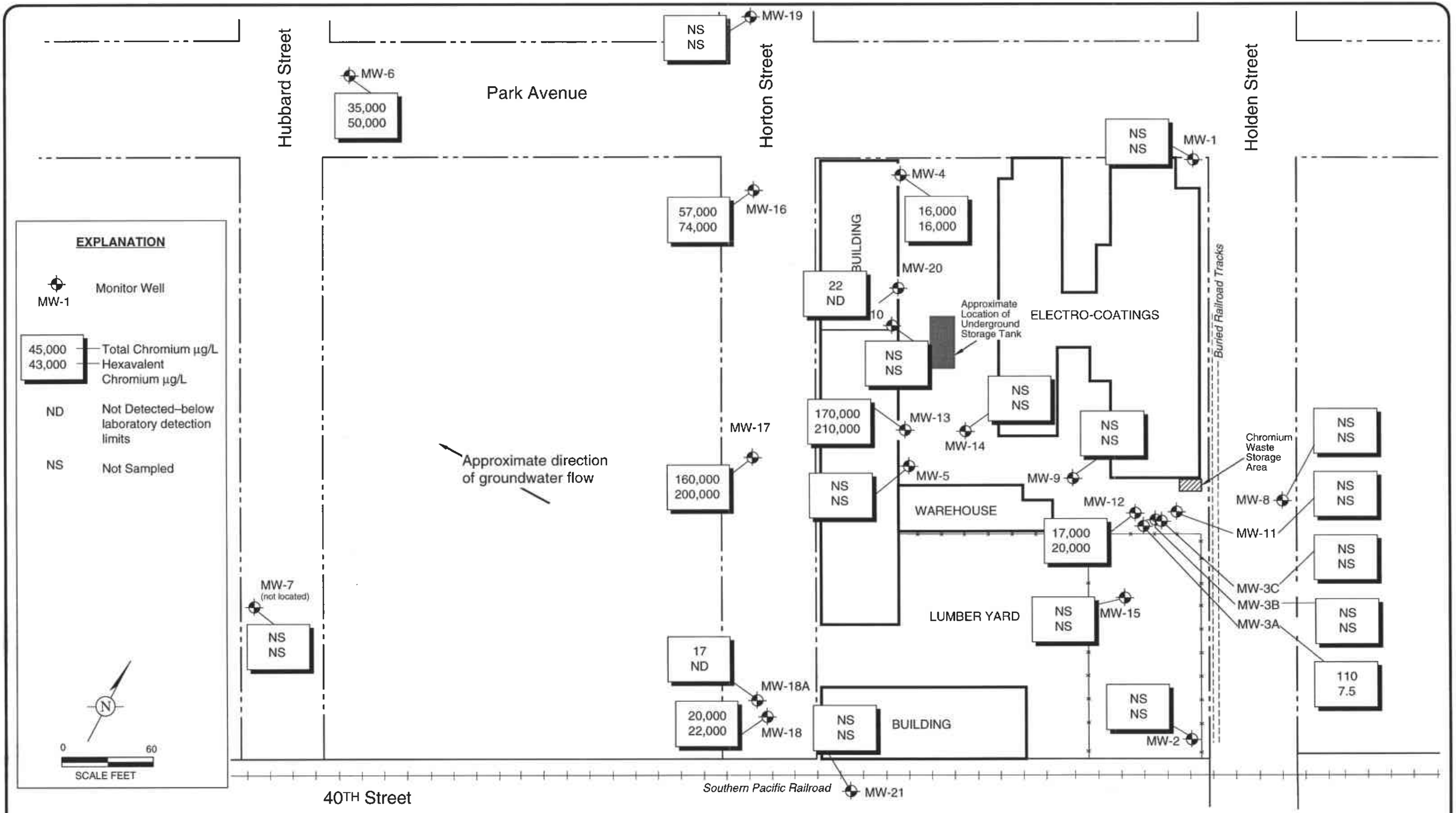


GERAGHTY & MILLER, INC.
Environmental Services
A **Heidemij** Company

Project No. RC0304.000

GROUNDWATER CONTOUR MAP - DECEMBER 1995
Electro-Coatings, Inc.
1401 and 1421 Park Avenue
Emeryville, California

FIGURE
1



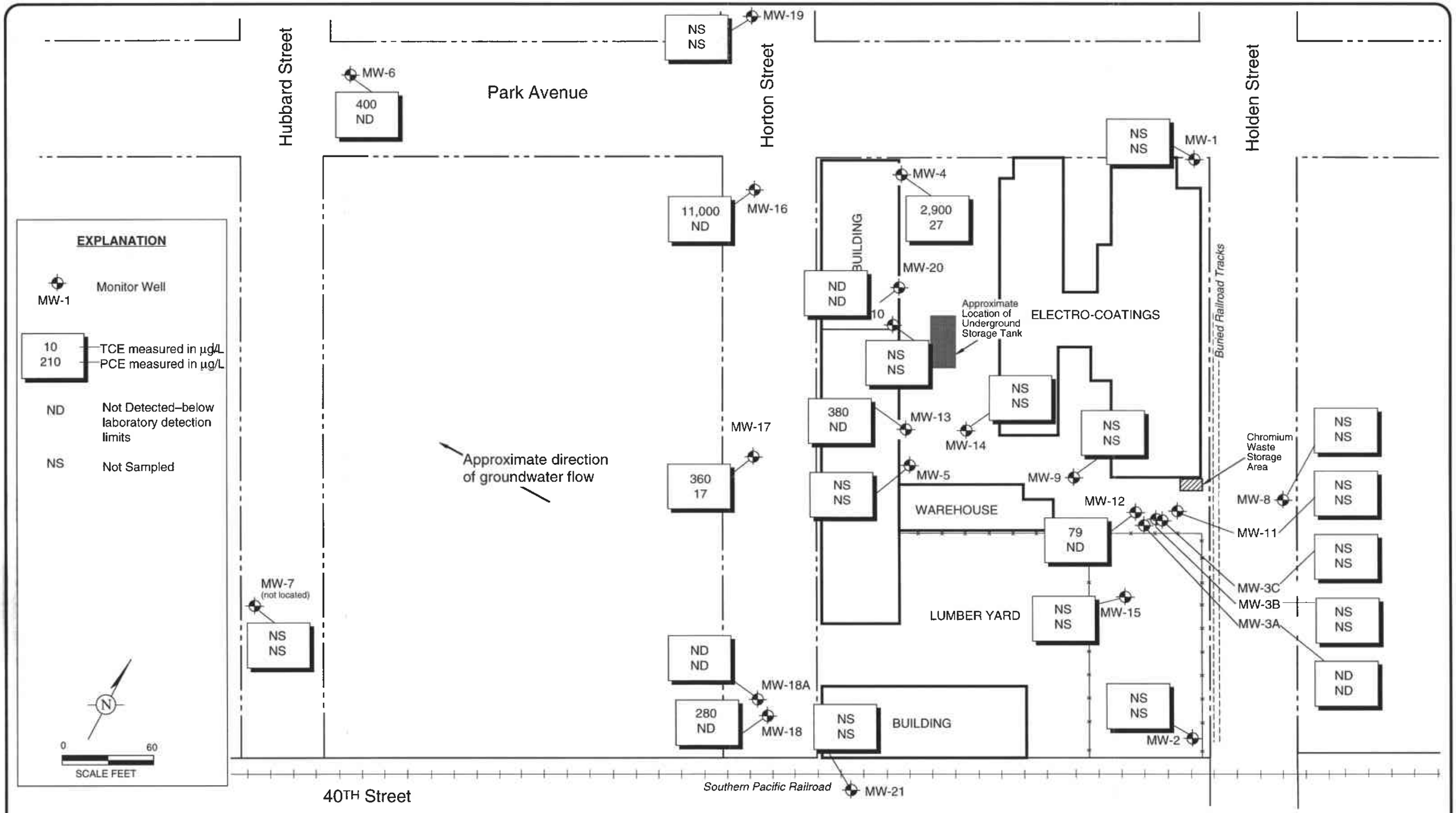
GERAGHTY & MILLER, INC.
Environmental Services
A **Heidemij** Company

Project No. RC0304.000

GROUNDWATER ANALYTICAL RESULTS—TOTAL CHROMIUM AND HEXAVALENT CHROMIUM—DECEMBER 1995

Electro-Coatings, Inc.
1401 and 1421 Park Avenue
Emeryville, California

FIGURE
2



GERAGHTY & MILLER, INC.
Environmental Services
A Heidemij Company

Project No. RC0304.000

GROUNDWATER ANALYTICAL RESULTS—TCE and PCE—DECEMBER 1995
Electro-Coatings, Inc.
1401 and 1421 Park Avenue
Emeryville, California

FIGURE
3

ATTACHMENT 1

COPIES OF LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

INVOICE FOR ANALYTICAL SERVICES

ACCOUNTS PAYABLE
GERAGHTY & MILLER
1050 MARINA WAY SOUTH
RICHMOND CA 94804

Invoice Number: 38703C
Invoice Date: Jan 22, 1996
P.O. Number: ---
Client Code: GEM
Report Number: 5121257
Project Manager: KV

Qty	Description of Service	Unit Price	Amount
	PROJECT ID: RC0304.003		
	SAMPLES RECEIVED 12/14/95		
7	Halog Vol Organics (EPA 8010), 10 day	58.50	409.50
7	Chromium (Total), 10 day	9.90	69.30
7	Hexavalent Chromium, 10 day	27.00	189.00

Invoice Total: $ 667.80

Please remit to: Sequoia Analytical, 680 Chesapeake Drive, Redwood City CA 94063. Payment is due 30 days from invoice date; overdue balances are subject to 1.5% interest per month. Questions regarding this invoice should be directed to Evelyn DeBlock in Accounts Receivable, (415) 364-9600. Federal Tax ID #93-074-7241.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled: Dec 14, 1995
1050 Marina Way South	Sample Descript:	Water, MW-3A	Received: Dec 14, 1995
Richmond, CA 94804	Analysis Method:	EPA 5030/8010	Analyzed: Dec 26-27,1995
Attention: Paul Hehn	Lab Number:	512-1257	Reported: Jan 5, 1996

QC Batch Number: GC122695801007A

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	83
4-Bromofluorobenzene	50	150	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled:	Dec 14, 1995
1050 Marina Way South	Sample Descript:	Water, MW-12	Received:	Dec 14, 1995
Richmond, CA 94804	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 26, 1995
Attention: Paul Hehn	Lab Number:	512-1258	Reported:	Jan 5, 1996

QC Batch Number: GC122695801007A

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	10	N.D.
Bromoform	10	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	10	N.D.
Chlorobenzene	10	N.D.
Chloroethane	20	N.D.
2-Chloroethylvinyl ether	20	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,2-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	10	N.D.
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	10	N.D.
cis-1,2-Dichloroethene	10	N.D.
trans-1,2-Dichloroethene	10	N.D.
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	10	N.D.
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	**10**	**79**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	20	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	95
4-Bromofluorobenzene	50	150	84

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled: Dec 14, 1995
1050 Marina Way South	Sample Descript:	Water, MW-16	Received: Dec 14, 1995
Richmond, CA 94804	Analysis Method:	EPA 5030/8010	Analyzed: Dec 26-27,1995
Attention: Paul Hehn	Lab Number:	512-1259	Reported: Jan 5, 1996

QC Batch Number: GC122695801007A

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	**10**	**25**
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	**200**	**620**
cis-1,2-Dichloroethene	**200**	**2,300**
trans-1,2-Dichloroethene	**10**	**100**
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	**10**	**140**
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**200**	**11,000**
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	**200**	**460**

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	101
4-Bromofluorobenzene	50	150	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled: Dec 14, 1995
1050 Marina Way South	Sample Descript:	Water, MW-18	Received: Dec 14, 1995
Richmond, CA 94804	Analysis Method:	EPA 5030/8010	Analyzed: Dec 26, 1995
Attention: Paul Hehn	Lab Number:	512-1260	Reported: Jan 5, 1996

QC Batch Number: GC122695801007A

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	10	N.D.
Bromoform	10	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	10	N.D.
Chlorobenzene	10	N.D.
Chloroethane	20	N.D.
2-Chloroethylvinyl ether	20	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,2-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	10	N.D.
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	10	N.D.
cis-1,2-Dichloroethene	**10**	**18**
trans-1,2-Dichloroethene	10	N.D.
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	10	N.D.
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	**10**	**280**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	20	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	94
4-Bromofluorobenzene	50	150	96

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

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Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled: Dec 14, 1995
1050 Marina Way South	Sample Descript:	Water, MW-17	Received: Dec 14, 1995
Richmond, CA 94804	Analysis Method:	EPA 5030/8010	Analyzed: Dec 26, 1995
Attention: Paul Hehn	Lab Number:	512-1261	Reported: Jan 5, 1996

QC Batch Number: GC122695801007A

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	10	N.D.
Bromoform	10	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	10	N.D.
Chlorobenzene	**10**	**27**
Chloroethane	20	N.D.
2-Chloroethylvinyl ether	20	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,2-Dichlorobenzene	**10**	**15**
1,1-Dichloroethane	10	N.D.
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	**10**	**38**
cis-1,2-Dichloroethene	**10**	**24**
trans-1,2-Dichloroethene	10	N.D.
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	**10**	**13**
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	**10**	**360**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	20	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	88
4-Bromofluorobenzene	50	150	90

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

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Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled: Dec 14, 1995
1050 Marina Way South	Sample Descript:	Water, MW-6	Received: Dec 14, 1995
Richmond, CA 94804	Analysis Method:	EPA 5030/8010	Analyzed: Dec 26, 1995
Attention: Paul Hehn	Lab Number:	512-1263	Reported: Jan 5, 1996

QC Batch Number: GC122695801007A

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	10	N.D.
Bromoform	10	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	10	N.D.
Chlorobenzene	10	N.D.
Chloroethane	20	N.D.
2-Chloroethylvinyl ether	20	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,2-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	10	N.D.
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	**10**	**74**
cis-1,2-Dichloroethene	**10**	**53**
trans-1,2-Dichloroethene	10	N.D.
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	10	N.D.
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	**10**	**400**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	20	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	95
4-Bromofluorobenzene	50	150	91

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

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Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled: Dec 14, 1995
1050 Marina Way South	Sample Descript:	Water	Received: Dec 14, 1995
Richmond, CA 94804	Analysis for:	Chromium	Digested: Dec 18, 1995
Attention: Paul Hehn	First Sample #:	512-1257	Analyzed: Dec 20, 1995
			Reported: Jan 5, 1996

LABORATORY ANALYSIS FOR: Chromium

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	QC Batch Number	Instrument ID
512-1257	MW-3A	0.050	0.11	ME1218952007MDB	MV-1
512-1258	MW-12	0.050	17	ME1218952007MDB	MV-1
512-1259	MW-16	0.050	57	ME1218952007MDB	MV-1
512-1260	MW-18	0.050	20	ME1218952007MDB	MV-1
512-1261	MW-17	0.050	160	ME1218952007MDB	MV-1
512-1262	Special -16	0.050	6.3	ME1218952007MDB	MV-1
512-1263	MW-6	0.050	35	ME1218952007MDB	MV-1

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

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Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled:	Dec 14, 1995
1050 Marina Way South	Sample Descript:	Water	Received:	Dec 14, 1995
Richmond, CA 94804	Analysis for:	Hexavalent Chromium		
Attention: Paul Hehn	First Sample #:	512-1257	Analyzed:	Dec 14, 1995
			Reported:	Jan 5, 1996

LABORATORY ANALYSIS FOR: Hexavalent Chromium

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	QC Batch Number	Instrument ID
512-1257	MW-3A	0.0050	0.0075	IN1214957196I3A	INSPC-1
512-1258	MW-12	0.0050	20	IN1214957196I3A	INSPC-1
512-1259	MW-16	0.0050	74	IN1214957196I3A	INSPC-1
512-1260	MW-18	0.0050	22	IN1214957196I3A	INSPC-1
512-1261	MW-17	0.0050	200	IN1214957196I3A	INSPC-1
512-1262	Special -16	0.0050	2.4	IN1214957196I3A	INSPC-1
512-1263	MW-6	0.0050	50	IN1214957196I3A	INSPC-1

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Geraghty & Miller, Inc.
1050 Marina Way South
Richmond, CA 94804
Attention: Paul Hehn

Client Project ID: RC0304.003
Matrix: Liquid

QC Sample Group: 5121257-263

Reported: Jan 5, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC122695 801007A	GC122695 801007A	GC122695 801007A	GC122795 801007A	GC122795 801007A	GC122795 801007A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	I.Z.	I.Z.	I.Z.	I.Z.	I.Z.	I.Z.
MS/MSD #:	5121244	5121244	5121244	5121521	5121521	5121521
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Analyzed Date:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Instrument I.D.#:	HP-7	HP-7	HP-7	HP-7	HP-7	HP-7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	10 µg/L	10 µg/L	10 µg/L
Result:	12	10	9.7	14	11	9.3
MS % Recovery:	119	104	97	136	109	93
Dup. Result:	12	9.5	9.2	14	10	9.4
MSD % Recov.:	122	95	92	135	102	94
RPD:	2.5	9.0	5.3	0.74	6.6	1.1
RPD Limit:	0-30	0-30	0-30	0-30	0-30	0-30

LCS #:	LCS122695	LCS122695	LCS122695	LCS122795	LCS122795	LCS122795
Prepared Date:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Analyzed Date:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Instrument I.D.#:	HP-7	HP-7	HP-7	HP-7	HP-7	HP-7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	10 µg/L	10 µg/L	10 µg/L
LCS Result:	12	9.0	9.1	10	8.6	8.5
LCS % Recov.:	117	90	91	103	86	85

MS/MSD LCS Control Limits	28-167	35-146	38-150	28-167	35-146	38-150

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Geraghty & Miller, Inc.
1050 Marina Way South
Richmond, CA 94804
Attention: Paul Hehn

Client Project ID: RC0304.003
Matrix: Liquid

QC Sample Group: 5121257-263

Reported: Jan 5, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Chromium	Hexavalent Chromium
QC Batch#:	ME121895	IN121495
	2007MDB	7196I3A
Analy. Method:	EPA 218.1	EPA 7196
Prep. Method:	EPA 200.7	EPA 7196
Analyst:	T. Le	R. Salinas
MS/MSD #:	5121257	5121257
Sample Conc.:	0.11 mg/L	0.0075 mg/L
Prepared Date:	12/18/95	12/14/95
Analyzed Date:	12/20/95	12/14/95
Instrument I.D.#:	MV-1	INSPC-1
Conc. Spiked:	1.0 mg/L	0.050 mg/L
Result:	1.2	0.053
MS % Recovery:	110	91
Dup. Result:	1.2	0.052
MSD % Recov.:	110	89
RPD:	0.0	1.9
RPD Limit:	0-20	0-20

LCS #:	BLK121895	7196RS12H
Prepared Date:	12/18/95	12/14/95
Analyzed Date:	12/20/95	12/14/95
Instrument I.D.#:	MV-1	INSPC-1
Conc. Spiked:	1.0 mg/L	0.050 mg/L
LCS Result:	1.0	0.050
LCS % Recov.:	100	100

MS/MSD LCS Control Limits	75-125	70-130

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

GERAGHTY & MILLER, INC.
Environmental Services

Laboratory Task Order No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number FC0304003

Project Location ECI Emeryville

Laboratory Sequoia

Sampler(s)/Affiliation Geraghty & Miller G. Crowley

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	SAMPLE BOTTLE / CONTAINER DESCRIPTION: Total Chromium USEPA Method 200.7	Hexavalent Chromium USEPA Method 7196	Halogenated Volatile Organics USEPA Method 8010	9512314					TOTAL
MW-3A	L	12/14 10:30		X	X	X	5121257	A-E				5
MW-12	L	10:00		X	X	X	5121258					5
MW-16	L	12:25		X	X	X	5121259					5
MW-18	L	12:45		X	X	X	5121260					5
MW-17	L	12:35		X	X	X	5121261					5
~~Special #6~~	~~L~~	~~8:20~~		~~X~~	~~X~~	~~X~~	~~5121262~~					~~5~~
MW-6	L	12/14 1:00		X	X	X	5121263					5

Sample Code: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 35

				Seal Intact?
Relinquished by: Paul Bonilli	Organization:	Date / /	Time	
Received by:	Organization: Sequoia	Date 12/14/95	Time 3:00	(Yes) No N/A
Relinquished by: Paul Bonilli	Organization: Seq	Date 12/14/95	Time 4:15	Seal Intact?
Received by:	Organization: Seq	Date 12/14/95	Time 1615	Yes No N/A

Special Instructions/Remarks: _____

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

G&M Form 09.9.91

Sequoia Analytical

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INVOICE FOR ANALYTICAL SERVICES

ACCOUNTS PAYABLE
GERAGHTY & MILLER
1050 MARINA WAY SOUTH
RICHMOND CA 94804

Invoice Number: 38702C
Invoice Date: Jan 22, 1996
P.O. Number: ---
Client Code: GEM
Report Number: 5121370
Project Manager: KV

Qty	Description of Service	Unit Price	Amount
	PROJECT ID: RC0304.003		
	SAMPLES RECEIVED 12/15/95		
4	Halog Vol Organics (EPA 8010), 10 day	58.50	234.00
4	Chromium (Total), 10 day	9.90	39.60
4	Hexavalent Chromium, 10 day	27.00	108.00

Invoice Total: $ 381.60

Please remit to: Sequoia Analytical, 680 Chesapeake Drive, Redwood City CA 94063. Payment is due 30 days from invoice date; overdue balances are subject to 1.5% interest per month. Questions regarding this invoice should be directed to Evelyn DeBlock in Accounts Receivable, (415) 364-9600. Federal Tax ID #93-074-7241.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled: Dec 15, 1995
1050 Marina Way South	Sample Descript:	Water, MW-20	Received: Dec 15, 1995
Richmond, CA 94804	Analysis Method:	EPA 5030/8010	Analyzed: Dec 26-27,1995
Attention: Paul Hehn	Lab Number:	512-1370	Reported: Jan 5, 1996

QC Batch Number: GC122695801007A

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	107
4-Bromofluorobenzene	50	150	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled: Dec 15, 1995
1050 Marina Way South	Sample Descript:	Water, MW-18A	Received: Dec 15, 1995
Richmond, CA 94804	Analysis Method:	EPA 5030/8010	Analyzed: Dec 26-27,1995
Attention: Paul Hehn	Lab Number:	512-1371	Reported: Jan 5, 1996

QC Batch Number: GC122695801007A

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	105
4-Bromofluorobenzene	50	150	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled:	Dec 15, 1995
1050 Marina Way South	Sample Descript:	Water, MW-13	Received:	Dec 15, 1995
Richmond, CA 94804	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 26, 1996
Attention: Paul Hehn	Lab Number:	512-1372	Reported:	Jan 5, 1996

QC Batch Number: GC122695801007A

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	10	N.D.
Bromoform	10	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	10	N.D.
Chlorobenzene	10	N.D.
Chloroethane	20	N.D.
2-Chloroethylvinyl ether	20	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,2-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	10	N.D.
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	10	N.D.
cis-1,2-Dichloroethene	**10**	**68**
trans-1,2-Dichloroethene	**10**	**17**
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	10	N.D.
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	**10**	**380**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	20	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	95
4-Bromofluorobenzene	50	150	98

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled: Dec 15, 1995
1050 Marina Way South	Sample Descript:	Water, MW-4	Received: Dec 15, 1995
Richmond, CA 94804	Analysis Method:	EPA 5030/8010	Analyzed: Dec 26, 1995
Attention: Paul Hehn	Lab Number:	512-1373	Reported: Jan 5, 1996

QC Batch Number: GC122695801007A

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	10	N.D.
Bromoform	10	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	10	N.D.
Chlorobenzene	10	N.D.
Chloroethane	20	N.D.
2-Chloroethylvinyl ether	20	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,2-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	10	N.D.
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	10	N.D.
cis-1,2-Dichloroethene	**10**	**330**
trans-1,2-Dichloroethene	**10**	**44**
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	**10**	**27**
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	**100**	**2,900**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	20	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	98
4-Bromofluorobenzene	50	150	95

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled: Dec 15, 1995
1050 Marina Way South	Sample Descript:	Water	Received: Dec 15, 1995
Richmond, CA 94804	Analysis for:	Chromium	Digested: Dec 18, 1995
Attention: Paul Hehn	First Sample #:	512-1370	Analyzed: Jan 4, 1996
			Reported: Jan 5, 1996

LABORATORY ANALYSIS FOR: Chromium

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	QC Batch Number	Instrument ID
512-1370	MW-20	0.010	0.022	ME1218952007MDB	MV-3
512-1371	MW-18A	0.010	0.017	ME1218952007MDB	MV-3
512-1372	MW-13	0.010	170	ME1218952007MDB	MV-3
512-1373	MW-4	0.010	16	ME1218952007MDB	MV-3

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Geraghty & Miller, Inc.	Client Project ID:	RC0304.003	Sampled:	Dec 15, 1995
1050 Marina Way South	Sample Descript:	Water	Received:	Dec 15, 1995
Richmond, CA 94804	Analysis for:	Hexavalent Chromium	Analyzed:	Dec 29, 1995
Attention: Paul Hehn	First Sample #:	512-1370	Reported:	Jan 5, 1996

LABORATORY ANALYSIS FOR: Hexavalent Chromium

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	QC Batch Number	Instrument ID
512-1370	MW-20	0.0050	N.D.	IN12159571961 3A	INSPC-1
512-1371	MW-18A	0.0050	N.D.	IN12159571961 3A	INSPC-1
512-1372	MW-13	0.0050	210	IN12159571961 3A	INSPC-1
512-1373	MW-4	0.0050	16	IN12159571961 3A	INSPC-1

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Geraghty & Miller, Inc.
1050 Marina Way South
Richmond, CA 94804
Attention: Paul Hehn

Client Project ID: RC0304.003
Matrix: Liquid

QC Sample Group: 5121370-373

Reported: Jan 5, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC122695 801007A	GC122695 801007A	GC122695 801007A	GC122795 801007A	GC122795 801007A	GC122795 801007A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	I.Z.	I.Z.	I.Z.	I.Z.	I.Z.	I.Z.
MS/MSD #:	5121244	5121244	5121244	5121521	5121521	5121521
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Analyzed Date:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Instrument I.D.#:	HP-7	HP-7	HP-7	HP-7	HP-7	HP-7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	10 µg/L	10 µg/L	10 µg/L
Result:	12	10	9.7	14	11	9.3
MS % Recovery:	119	104	97	136	109	93
Dup. Result:	12	9.5	9.2	14	10	9.4
MSD % Recov.:	122	95	92	135	102	94
RPD:	2.5	9.0	5.3	0.74	6.6	1.1
RPD Limit:	0-30	0-30	0-30	0-30	0-30	0-30

LCS #:	LCS122695	LCS122695	LCS122695	LCS122795	LCS122795	LCS122795
Prepared Date:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Analyzed Date:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Instrument I.D.#:	HP-7	HP-7	HP-7	HP-7	HP-7	HP-7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	10 µg/L	10 µg/L	10 µg/L
LCS Result:	12	9.0	9.1	10	8.6	8.5
LCS % Recov.:	117	90	91	103	86	85

MS/MSD LCS Control Limits	28-167	35-146	38-150	28-167	35-146	38-150

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Geraghty & Miller, Inc.
1050 Marina Way South
Richmond, CA 94804
Attention: Paul Hehn

Client Project ID: RC0304.003
Matrix: Liquid
QC Sample Group: 5121370-373
Reported: Jan 5, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Chromium	Hexavalent Chromium
QC Batch#:	ME121895	IN121595
	2007MDB	7196I3A
Analy. Method:	EPA 200.7	EPA 7196
Prep. Method:	EPA 200.7	EPA 7196
Analyst:	K. Anderson	R. Salinas
MS/MSD #:	5121257	5121371
Sample Conc.:	0.066 mg/L	N.D.
Prepared Date:	12/18/95	12/15/95
Analyzed Date:	1/4/96	12/15/95
Instrument I.D.#:	MV-3	INSPC-1
Conc. Spiked:	1.0 mg/L	0.050 mg/L
Result:	1.1	0.051
MS % Recovery:	103	102
Dup. Result:	1.1	0.052
MSD % Recov.:	103	104
RPD:	0.0	1.9
RPD Limit:	0-20	0-20

LCS #:	BLK121895	7196RS12H-1
Prepared Date:	12/18/95	12/15/95
Analyzed Date:	1/4/96	12/15/95
Instrument I.D.#:	MV-3	INSPC-1
Conc. Spiked:	1.0 mg/L	0.050 mg/L
LCS Result:	1.1	0.052
LCS % Recov.:	110	104

MS/MSD LCS Control Limits	75-125	70-130

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

GERAGHTY & MILLER, INC.
Environmental Services

Laboratory Task Order No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number RC0304.003

Project Location ECI Emeryville

Laboratory Seqouia

Sampler(s)/Affiliation Geraghty & Miller
G. Crowley

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	SAMPLE BOTTLE / CONTAINER DESCRIPTION: Total Chromium USEPA 218.7	Hexavalent Chromium USEPA 7196	Halogenated Volatile Organics USEPA 8010							TOTAL
MW-20	L	12/15 9:55		X	X	X	5121370	A-E					5
MW-18A	L	12/15 9:45		X	X	X	5121371	↓					5
MW-13	L	12/15 10:00		X	X	X	5121372	↓					5
MW-4	L	12/15 10:10		X	X	X	5121373	↓					5

Sample Code: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 20

				Seal Intact?
Relinquished by: [signature]	Organization:	Date 12/15/95	Time 4:30 PM	
Received by: [signature]	Organization: Sequoia	Date 12/15/95	Time 4:30 pm	(Yes) No N/A
Relinquished by: [signature]	Organization: Seq	Date 12/15/95	Time 4:45 pm	
Received by: [signature]	Organization: Sequoia	Date 12/15/95	Time 18:00	Yes No N/A

Special Instructions/Remarks: _____

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

G&M Form 09-9-91

Southprint 91-1768