AMERICAN
ENVIRONMENTAL MANAGEMENT CORP.

Please Refer To:
AEMC Job No. 83210

28 January 1992

Mr. Thomas Gandesbery
Environmental Specialist
California Regional Water Quality Control Board
2101 Webester, Suite 500
Oakland, California 94611

RE: GROUNDWATER MONITORING REPORT
ELECTRO-COATINGS, INC. - EMERYVILLE SITE
1401 PARK AVENUE, EMERYVILLE, CALIFORNIA

Dear Mr. Gandesbery:

American Environmental Management Corporation (AEMC) is pleased to submit a copy of our 27 January 1992 Groundwater Monitoring Report for the above-referenced site for your review. The monitoring was accomplished as explained in our 16 October 1991 workplan.

If we can answer any questions regarding this matter, please call.

Sincerely,

Neil H. Zickefoose, R.G., C.E.G. 398
Geological Science Section Manager
Engineering Division

NHZ/tch
l2eci-01(nz-1)

Enclosure

cc: Electro-Coatings, Inc. (Ms. Kathleen U. Poling)

9719 Lincoln Village Drive, Suite 501, Sacramento, CA 95827 / (916) 364-8823

TABLE OF CONTENTS

FIGURES

APPENDICES

TABLES

INTRODUCTION

American Environmental Management Corporation (AEMC) is pleased to present this groundwater monitoring report to Electro-Coatings, Inc. (ECI), to comply with the 10 July 1991 requirements of the California Regional Water Quality Control Board (CRWQCB) as authorized by ECI on 17 September 1991. This report discusses the refurbishment of the existing groundwater monitoring wells located at ECI's Emeryville site (Figure 1), the redevelopment and sampling of the wells, the well location survey, the results of past and present groundwater analyses, a summary of the findings and recommendations for future monitoring.

BACKGROUND

As explained in the Data Survey Report, Kleinfelder, Inc., 25 April 1991, the 1.0 acre Electro-Coatings, Inc. facility (Figure 2) consists of two parcels of property. Four buildings are located on the premises. The facility began operation in 1952 under the ownership of Industrial Hard Chrome Plating Corporation. In 1962, the business was purchased by ECI. One of the parcels is owned by ECI and one is leased.

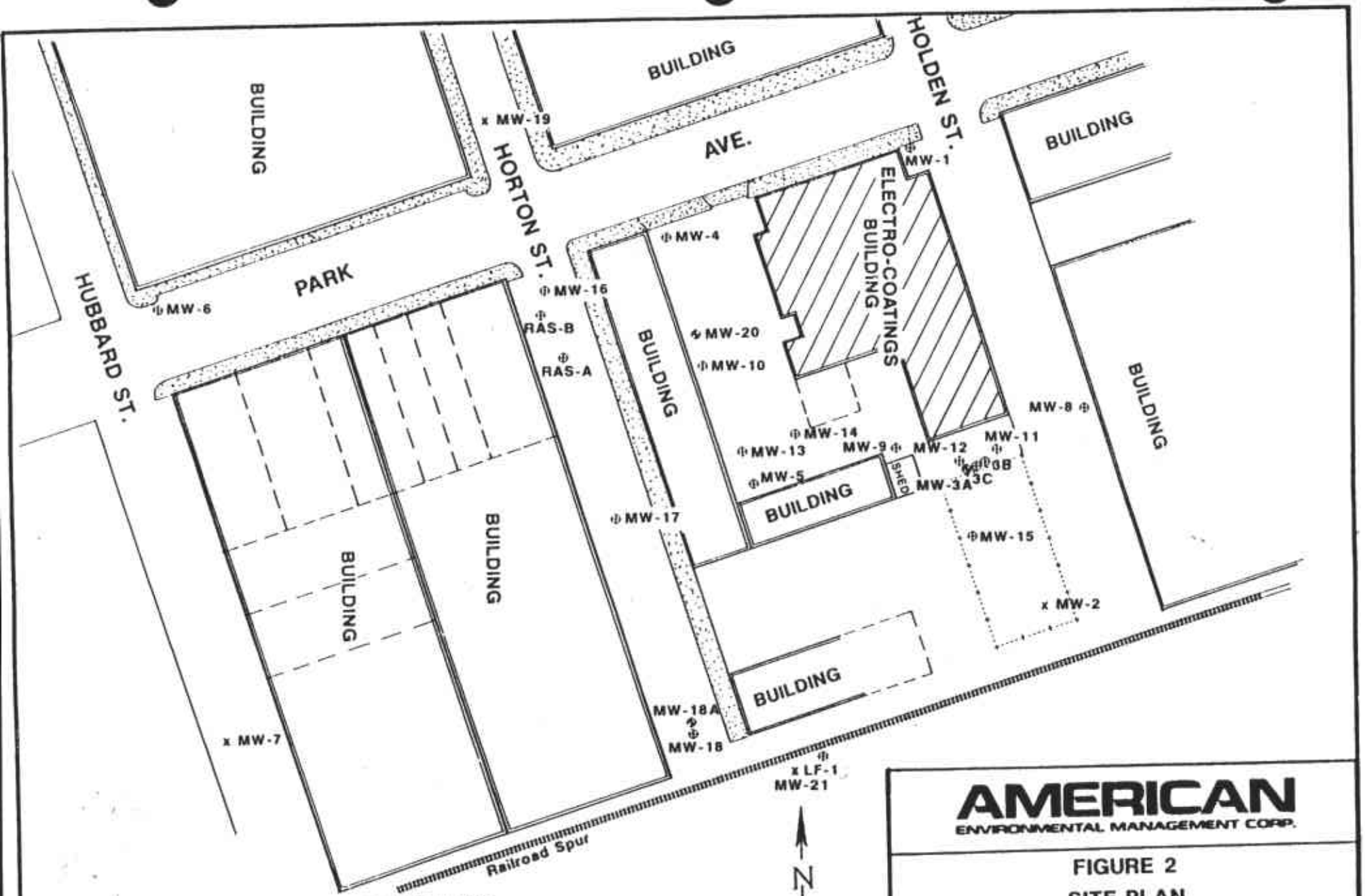
From 1952 to August 1990, a hard chrome plating operation was conducted at the site. The operation included inside diameter honing, metal stripping and inside diameter chrome plating. Chromic acid waste was held in a storage tank located behind the building in a concrete lined pit. In 1974, the bottom seal of a sump in the pit was found to be leaking. The sump was subsequently reinforced with a double concrete liner, and a steel tank was placed into the pit to hold chromic acid wastes. The chromium waste storage area is identified on Figure 2.

AMERICAN
ENVIRONMENTAL MANAGEMENT CORP.

FIGURE 1
SITE LOCATION MAP

ELECTRO-COATINGS - Emeryville, Ca.

DRAWN BY:	DATE:	PROJECT NO.
GPM	12/17/91	83210



AMERICAN
ENVIRONMENTAL MANAGEMENT CORP.

FIGURE 2
SITE PLAN

ELECTRO-COATING - Emeryville, CA.

DRAWN BY:	DATE:	PROJECT NO.
GPM	12/17/91	83210

Sometime in the late 1950s, an electroless nickel plating operation was installed and currently operates in the building located at 1421 Park Avenue. The operation consists of two electroless nickel baths, one in a 1,500-gallon tank and one in a 3,000-gallon tank, a nitric strip bath and a hydrochloric acid pickling bath. A vapor degreasing tank has been used as part of the nickel plating operation. At first, Trichloroethene (TCE) and later 1-1-1 Trichloroethane (TCA) were used to degrease metals prior to nickel plating. The use of the vapor degreaser has been discontinued. The current waste production of the nickel plating operation is nickel hydroxide which is hauled offsite to a recycler.

In 1977, the CRWQCB issued a Cleanup and Abatement Order (No. 77-011) which required ECI to cease onsite disposal of chromium-containing wastewater and to investigate groundwater pollution at and emanating from the site. ECI conducted a well canvass and retained Woodward-Clyde Consultants (WCC) in 1977, initially to observe and report on the installation and sampling of the first seven monitoring wells (wells MW-1, MW-2, MW-3A, MW-3B, MW-3C, MW-4, and MW-5) and later to install additional wells (wells MW-6 through MW-13) and to perform groundwater pump tests. In 1982, ECI retained Kleinfelder to continue the site investigation. Kleinfelder installed seven monitoring wells (wells MW-14 through MW-18) in 1982. In 1983, Kleinfelder installed four additional wells (wells MW-18A, MW-19, MW-20, and MW-21). In 1991, Kleinfelder took water level measurements in the accessible wells and prepared their data summary report dated 25 April 1991. In September 1991, AEMC was retained to conduct the work described hereafter in this report.

GROUNDWATER MONITORING WELL RESTORATION

WELL REPAIR SURVEY

On 7 October 1991, AEMC personnel conducted a well repair survey of each monitoring well. This survey identified the problems associated with each well. At the time of the survey, twenty wells were located and three wells were not found.

WELL REPAIR

The groundwater monitoring well repair began on 21 October 1991 with a general cleanup performed at each well location. This involved wire brushing the well covers, removal of accumulated soil, trash and water. All 4-inch diameter or larger wells required a new locking well cap; the smaller diameter wells have slip-on PVC caps. Three of the wells required repair to the casing. These wells had threaded ends which would not allow for locking caps to seal correctly; therefore, they were altered, and one casing had to be extended by 6 inches for ease of use. Ten monitoring wells required new watertight traffic rated well covers. In general, installation of these well covers involved jackhammering around the well and removal of the asphalt and soil, then installing the new well covers. These well covers were concreted into position and asphalt cold-patch was compacted at the surface flush to grade. A summary of the repairs and other well information is presented in Table 1 (page 7).

MONITORING WELL REDEVELOPMENT

Redevelopment of the monitoring wells started 28 October 1991. A surge block was used on all 4-inch or larger diameter wells to clean the well casing screens and to disturb the accumulated sediment in the well. A minimum of three volumes of water was then removed from each well. A 1-inch diameter by 4-foot long Voss Technologies polyethylene bailer was used on the 1.5-inch wells and the 4-inch or larger wells were redeveloped by

either a submersible pump or a 3-inch polyethylene bailer. The removed water was properly stored in labeled 55-gallon drums onsite until chemical analysis was completed and proper disposal could be evaluated. During this process, sampling tubing used by previous consultants was found in three wells.

WELL ELEVATION SURVEY

On 29 October 1991, Ron Archer Civil Engineer Inc., of Pleasanton, California, performed a monitoring well elevation and location survey. The survey was conducted to an accuracy of 0.01-feet (relative to Mean Sea Level). This firm is properly licensed to perform this type of work. Results of the survey are found in Appendix A.

TABLE 1

REPAIR STATUS OF MONITORING WELLS
AS OF 5 NOVEMBER 1991

Well No.	Inside Diameter	Original Depth (ft)	Current Depth (ft)	Depth to Water	REMARKS
1	4	29	29.85	6.40	New locking well cap, removed tubing from the well
2	NA	NA	NA	NA	Could not locate
3a	1.5	65	61	7.75	7" well cover installed
3b	1.5	18	17.37	7.10	7" well cover installed
3c	1.5	15	12.8	6.825	7" well cover installed
4	1.5	20.5	20.5	6.60	7" well cover installed
5	1.5	15	14.8	7.55	7" well cover installed
6	1.5	18	16.35	3.675	7" well cover installed, found tubing in well
7	NA	NA	NA	NA	Could not locate
8	1.5	22	20.90	6.575	7" well cover installed, extend casing, found tubing in the well
9	4	24.5	24.25	7.10	12" well cover installed, new locking well cap
10	4	24.5	23.8	7.15	12" well cover installed, new locking well cap
11	6	29	28	6.70	New locking well cap
12	4	28.5	26.3	6.85	New locking well cap
13	6	15.5	15	7.125	12" well cover installed, new locking well cap
14	4	25	23.6	7.075	New locking well cap
15	4	25	24.82	8.35	New locking well cap
16	4	22	25.1	4.80	New locking well cap
17	4	25	24.6	5.075	New locking well cap
18	4	25	25.6	5.375	New locking well cap, new well cover lid
18a	4	[illegible]	40.65	6.50	Repair casing, new locking well cap
19	NA	NA	NA	NA	Could not locate
20	4	[illegible]	46.6	3.55	Repair casing, new locking cap, grout inside casing
21	NA	NA	NA	NA	Could not locate

GROUNDWATER MONITORING WELL SAMPLING

Groundwater quality monitoring wells were sampled starting 29 October 1991 and ending 19 November 1991. Sampling consisted of determining the groundwater surface elevation, purging groundwater from the well and collecting a sample of groundwater after equilibration of the groundwater following purging.

WATER LEVEL MEASUREMENTS

Before sampling the groundwater, the depth to water in the well was measured to the nearest 0.01-foot and recorded. Depth-to-water measurements were obtained relative to a marked reference point on the top of the well casing using an electric Solinist water sounding device. The measuring equipment was thoroughly decontaminated before use in each well by washing it in a solution of Liqui-Nox or Alconox detergent and tap water, rinsing with tap water, and then rinsing with deionized water.

WELL PURGING

After development of the wells, they were purged and sampled. The volume of water contained in each well was calculated using the depth to water and the known depth to the bottom of the well. The groundwater wells were purged of groundwater before sample collection using various methods: a 1-inch diameter by 4-foot long Voss Technologies polyethylene bailer was used on the 1.5-inch wells; and, the combined use of a 3-inch polyethylene bailer or a submersible pump was used on the 4-inch or larger diameter wells. The above-described decontamination procedure was followed. The equivalent of at least three volumes of standing water was removed from the well before sampling. During purging, color and clarity were observed and the conductivity, pH, and temperature of the groundwater in the well were monitored using a calibrated Hydac meter. Groundwater was purged from the wells until conductivity, pH and temperature readings of the

groundwater in the well stabilized. The purged water was properly stored in labeled 55-gallon drums onsite until chemical analysis was completed and proper disposal could be evaluated. Table 2 (page 10) lists the parameters measured during the field monitoring event.

TABLE 2

GROUNDWATER SAMPLING FIELD DATA

WELL NO.	DATE	TIME	PURGE VOLUME (GALLONS)	TEMP °C	COND UMHO/CM	pH	OBSERVED CONDITIONS
1	11/15/91	10:50 am	44.76	61.1	818	6.89	SLIGHT YELLOW
				62.2	815	7.31	CLEAR
				64.0	816	7.12	CLEAR
3a	10/29/91	1:30 pm	14.52	76.5	534	7.37	CLEAR
				68.5	489	7.40	CLEAR
				64.5	649	7.26	CLEAR
3b	10/29/91	2:35 pm	2.90	69.4	1392	6.66	YELLOW
				68.7	1432	6.52	YELLOW
				68.5	1469	6.92	YELLOW
3c	10/29/91	1:45 pm	1.59	69.9	2345	7.15	TURBID GRAY
				69.4	2250	7.19	TURBID GRAY
				68.1	2215	7.25	TURBID GRAY
4	11/4/91	10:35 am	3.63	68.0	1247	6.72	LIGHT YELLOW
				68.2	1292	6.82	LIGHT YELLOW
				67.4	1310	6.95	LIGHT YELLOW
5	11/4/91	10:45 am	1.92	67.7	1430	6.12	YELLOW
				66.9	1468	6.48	YELLOW
				66.8	1444	6.32	YELLOW
6	11/4/91	12:35 pm	3.5	77.7	2199	7.10	YELLOW
				78.4	2330	7.40	YELLOW
				77.2	2369	7.20	YELLOW
8	11/4/91	12:45 pm	3.95	79.1	892	7.20	SLIGHTLY TURBID GRAY
				80.9	864	7.18	SLIGHTLY TURBID GRAY
				81.1	874	7.19	SLIGHTLY TURBID GRAY
9	10/30/91	1:58 pm	38.0	67.2	1092	6.52	TURBID YELLOW GRAY
				67.0	1036	6.04	TURBID YELLOW GRAY
				66.4	1104	6.31	TURBID YELLOW GRAY
10	11/7/91	12:00 pm	32.5	79.5	1890	6.39	YELLOW
				72.7	1980	6.27	YELLOW
				80.0	1800	6.29	YELLOW
11	11/15/91	11:30 am	94	73.5	842	6.71	SLIGHT YELLOW
				70.5	837	6.69	SLIGHT YELLOW
				69.1	833	6.64	SLIGHT YELLOW
12	11/11/91	11:15 am	37.7	69.2	1336	5.82	YELLOW
				72.6	1254	5.61	TURBID YELLOW
				70.9	1223	5.79	TURBID YELLOW

TABLE 2

GROUNDWATER SAMPLING FIELD DATA

WELL NO.	DATE	TIME	PURGE VOLUME (GALLONS)	TEMP °C	COND UMHO/CM	pH	OBSERVED CONDITIONS
14	11/11/91	1:45 pm	25.6	66.2	1595	6.67	YELLOW
				68.4	1684	6.82	YELLOW
				70.2	1632	6.75	YELLOW
15	11/12/91	1:30 pm	31.2	73.2	1522	6.11	TURBID SLIGHTLY YELLOW
				72.0	1315	6.25	TURBID SLIGHTLY YELLOW
				72.0	1283	6.36	TURBID SLIGHTLY YELLOW
16	11/19/91	1:35 pm	39.5	64.1	1819	6.36	TURBID YELLOW
				62.0	1822	6.39	TURBID YELLOW
				62.3	1783	6.51	TURBID YELLOW
17	11/19/91	1:30 pm	37.2	62.1	1937	6.46	YELLOW
				61.0	1917	6.51	YELLOW
				61.4	1924	6.49	YELLOW
18	11/19/91	10:15 am	39.6	63.5	1692	3.49	YELLOW
				63.2	1638	3.47	YELLOW
				63.6	1689	3.48	YELLOW
18a	11/19/91	10:15 am	66.1	64.7	593	7.64	SLIGHTLY TURBID GRAY
				62.2	559	7.46	CLEAR
				65.2	587	7.43	CLEAR
20	11/15/91	1:30pm	84.6	68.6	653	7.25	TURBID BROWN
				71.0	634	7.31	TURBID BROWN
				66.6	603	7.06	TURBID BROWN

GROUNDWATER SAMPLING PROTOCOL

Following purging of the groundwater, the water was allowed to recover to at least 80 percent of the original volume. The samples were collected by means of a new disposable bailer and new bailer line. The collected samples were transferred from the bailer to a laboratory-supplied container via a polyethylene sample spout at the base of the bailer. Two volatile organic analysis (VOA) vials were completely filled to allow no headspace in at least one, 1,000-milliliter polyethylene bottle.

Following transference, the sample containers were labeled, logged on a chain-of-custody form and placed in an ice chest to keep the samples cooled to 4° Centigrade during transport to a State of California Certified Analytical Laboratory for analysis.

ANALYTICAL RESULTS

GROUNDWATER SAMPLE ANALYSIS

The collected samples were analyzed for Purgeable Halocarbons using EPA Method 601, Total Chromium by EPA Method 6010, and Hexavalent Chromium. Duplicate samples were collected at three wells at the request of the Regional Water Quality Control Board. These samples were not filtered by the laboratory as all others were prior to analysis. The analyses were conducted by American Environmental Laboratories Corporation (State Certification No. 1233). Tables 3, 4, 5, 6, and 7 summarize the analytical results. Table 8 presents an explanation of abbreviations used. The laboratory analytical reports are presented in Appendix B.

TABLE 3

SUMMARY OF ANALYTICAL RESULTS - METALS
SHALLOW WELLS

Well No.	Date	Total Chromium (ug/l)	Hexavalent Chromium (ug/l)	Analytical Lab (a*)
1	8/24/77	200	--	unknown
	9/15/81	<1	--	B&C
	10/11/81	1	--	B&C
	11/24/81	2.5	--	B&C
	12/21/81	32	--	B&C
	2/26/85	<20	<20	Anlab
	11/15/91	<50	50	AELC
2	8/24/77	60	--	unknown
	9/15/81	<1	--	B&C
	10/11/81	4	--	B&C
	11/24/81	1.1	--	B&C
	12/21/81	2	--	B&C
3B	8/24/77	60	--	unknown
	9/15/81	<1	--	B&C
	10/11/81	480	--	B&C
	11/24/81	2,000	--	B&C
	12/21/81	190	--	B&C
	10/29/91	110,000	100,000	AELC
3C	8/18/77	18,000	12,000	unknown
	8/24/77	7,100	6,700	unknown
	9/15/81	30,000	--	B&C
	10/11/81	28,000	--	B&C
	11/24/81	22,000	--	B&C
	12/21/81	17,000	--	B&C
	2/26/85	7,250	6,300	Anlab
	10/29/91	2,300	1,600	AELC
4	8/18/77	90,000	67,000	unknown
	9/15/81	57,000	--	B&C
	10/11/81	61,000	--	B&C
	11/24/81	56,000	--	B&C
	12/21/81	55,000	--	B&C
	2/26/85	59,000	59,000	Anlab
	11/4/91	22,000	22,000	AELC
5	8/24/77	360,000	295,000	unknown
	7/21/81	--	--	B&C
	10/11/81	880,000	2,240	B&C
	11/24/81	610,000	--	B&C
	12/21/81	280,000	--	B&C
	2/26/85	480,000	480,000	Anlab
	11/4/91	260,000	250,000	AELC

* See Table 8 for explanation

TABLE 3

SUMMARY OF ANALYTICAL RESULTS - METALS
SHALLOW WELLS

Well No.	Date	Total Chromium (ug/l)	Hexavalent Chromium (ug/l)	Analytical Lab (a*)
6	9/15/81	630	--	B&C
	10/11/81	80	--	B&C
	11/24/81	790	--	B&C
	12/21/81	630	--	B&C
	2/19/85	3,330	3,300	Anlab
	11/5/91	31,000	25,000	AELC
7	9/15/81	<1	--	B&C
	10/11/81	<1	--	B&C
	12/21/81	3	--	B&C
8	9/15/81	<1	--	B&C
	10/11/81	2	--	B&C
	11/24/81	2.5	--	B&C
	12/21/81	70	--	B&C
	2/19/85	<20	<20	Anlab
	11/5/91	<50	<10	AELC
9	1/15/81	258,000	185,000	Ultrachem
	2/26/85	892,000	877,000	Anlab
	10/30/91	140,000	130,000	AELC
10	1/15/81	17,000	14,000	Ultrachem
	2/14/85	746,000	740,000	Anlab
	11/7/91	490,000	450,000	AELC
11 (d)	1/14/81	98,000	90,000	Ultrachem
(d)	1/14/81	127,000	98,000	Ultrachem
(d)	1/14/81	137,000	120,000	Ultrachem
(d)	1/14/81	145,000	124,000	Ultrachem
(d)	1/14/81	116,000	101,000	Ultrachem
(d)	1/14/81	122,000	122,000	Ultrachem
(d)	1/14/81	154,000	135,000	Ultrachem
(d)	1/14/81	134,000	134,000	Ultrachem
	7/21/81	340	34	B&C
	2/26/85	2,440	2,410	Anlab
	11/15/91	470	410	AELC
12	1/15/81	32,000	12,000	Ultrachem
	2/26/85	240,000	240,000	Anlab
	11/11/91	44,000	39,000	AELC
13	1/15/81	381,000	325,000	Ultrachem
	2/14/85	676,000	676,000	Anlab
	11/8/91	510,000	430,000	AELC

* See Table 8 for explanation

TABLE 3

SUMMARY OF ANALYTICAL RESULTS - METALS
SHALLOW WELLS

Well No.	Date	Total Chromium (ug/l)	Hexavalent Chromium (ug/l)	Analytical Lab (a*)
14	2/26/85	654,000	632,000	Anlab
	11/11/91	320,000	310,000	AELC
15	2/19/85	<20	<20	Anlab
	11/12/91	<50	<10	AELC
16	2/14/85	460,000	460,000	Anlab
	11/19/91	240,000	290,000	AELC
17	2/14/85	90,000	38,200	Anlab
	11/19/91	250,000	300,000	AELC
18	2/19/85	60,500	55,000	Anlab
	11/19/91	31,000	24,000	AELC
19	6/22/83	<20	<20	Anlab
	2/19/85	20	20	Anlab
21	6/22/83	20	<20	Anlab
	2/19/85	40	<20	Anlab

* See Table 8 for explanation

TABLE 4

SUMMARY OF ANALYTICAL RESULTS - METALS
DEEP WELLS

Well No.	Date	Total Chromium (ug/l)	Hexavalent Chromium (ug/l)	Analytical Lab (a*)
3A	8/18/77	50	--	unknown
	9/15/81	<1	--	B&C
	10/11/81	<1	--	B&C
	11/24/81	230	--	B&C
	12/21/81	14	--	B&C
	2/14/85	770	80	Anlab
	10/29/91	130	<500	AELC
18A	6/22/83	20	<20	Anlab
	2/26/85	<20	<20	Anlab
	11/19/91	<50	<10	AELC
20	6/21/83	1,300	1,200	B&C
	6/22/83	1,300	530	Anlab
	8/11/83	90	40	Anlab
	2/26/85	<20	<20	Anlab
	11/15/91	<50	14	AELC

See Table 8 for explanation

TABLE 5

SUMMARY OF ANALYTICAL RESULTS - METALS
SHALLOW WELLS

SAMPLES NOT FILTERED

Well No.	Date	Total Chromium (ug/l)	Hexavalent Chromium (ug/l)	Analytical Lab (a*)
4	11/4/91	22,000	22,000	AELC
12	11/11/91	45,000	45,000	AELC
13	11/11/91	--	430,000	AELC

See Table 8 for explanation

TABLE 6

SUMMARY OF ANALYTICAL RESULTS - PURGEABLE HALOCARBONS
SHALLOW WELLS

Well No.	Date	Depth	1,1-DCE* (ug/l)	1,2-DCE (ug/l)	1,1-DCA (ug/l)	TCE (ug/l)	TCA (ug/l)	PCE (ug/l)	Methylene Chloride (ug/l)	Vinyl Chloride (ug/l)	Lab (a)
1	3/21/85	NA	<0.5	<0.5	<0.5	33	<0.5	21	<0.5	<0.5	B&C
	11/15/91	29.55	0.5	4.8	1.6	11	<0.5	0.6	<0.5	<1.0	AELC
3B	10/29/91	17.37	13	45	1.2	650	<0.5	6.8	<0.5	6.4	AELC
3C	6/11/85	NA	<0.5	23	<0.5	150	2.4	1.7	<0.5	<0.5	B&C
	10/29/91	12.8	61	46	5.4	180	34	1.7	<0.5	18	AELC
4	11/4/91	20.5	<5.0	260	<5.0	2,100	<5.0	31	<5.0	10	AELC
5	11/4/91	14.8	4.2	120	42	410	1.3	8.9	<0.5	54	AELC
6	6/11/85	NA	<5	54	<5	220	3.9	<5	<5	<5	B&C
	11/5/91	16.35	29	78	<0.5	420	6.4	5.9	<0.5	19	AELC
8	6/10/85	NA	<1	19	1	46	<1	18	<1	3	B&C
	6/11/85	NA	1	32	1	93	<0.5	35	<5	--	CT
	11/5/91	20.90	0.8	23	1.8	38	<0.5	35	<0.5	4.9	AELC
9	6/13/85	NA	<5	31	<5	700	<5	26	20	<5	B&C
	10/30/91	24.25	<0.5	13	1.3	200	<0.5	11	<0.5	<1.0	AELC
10	6/12/85	NA	<50	<50	<50	5,100	<50	81	<50	<50	B&C
(b)	6/12/85	NA	<50	600	<50	12,000	<50	<50	<500	--	CT
	11/7/91	23.8	3,800	640	<50	14,000	6,500	<50	<50	<100	AELC
11	6/12/85	NA	<0.5	3.4	<0.5	19	1.3	5.3	7.6	<0.5	B&C
	11/15/91	28.0	<0.5	3.1	<0.5	10	<0.5	1.5	<0.5	<1.0	AELC
12	11/11/91	26.3	3.3	9.0	1.3	130	4.6	10	<1.0	<2.0	AELC

* See Table 8 for explanation

TABLE 6

SUMMARY OF ANALYTICAL RESULTS - PURGEABLE HALOCARBONS
SHALLOW WELLS

Well No.	Date	Depth	1,1-DCE* (ug/l)	1,2-DCE (ug/l)	1,1-DCA (ug/l)	TCE (ug/l)	TCA (ug/l)	PCE (ug/l)	Methylene Chloride (ug/l)	Vinyl Chloride (ug/l)	Lab (a)
13	11/8/91	15.0	6.8	89	15	630	<5.0	8.9	<5.0	20	AELC
14	3/21/85	NA	<0.5	<0.5	<0.5	580	<0.5	26	<0.5	<0.5	B&C
	11/11/91	23.6	13	150	19	4,300	17	13	<5.0	30	AELC
15	6/13/85	NA	<50	410	<50	1,200	<50	<50	<50	<50	B&C
	11/12/91	24.82	<5.0	220	<5.0	650	<5.0	<5.0	<5.0	<10	AELC
16	3/21/85	NA	<0.5	<0.5	<0.5	360	<0.5	42	<0.5	<0.5	B&C
	11/19/91	25.10	1,200	2,200	<5.0	19,000	1,300	<5.0	<5.0	420	AELC
17	6/13/85	NA	46	23	<5	200	22	18	<5	<5	B&C
	11/19/91	24.6	54	54	7.8	460	30	8.9	<5.0	420	AELC
18	6/12/85	NA	<0.5	140	<0.5	430	52	32	<0.5	<0.5	B&C
(c)	6/12/85	NA	<50	<50	<50	340	66	<50	<500	--	CT
	11/19/91	25.6	<5.0	160	<5.0	560	23	11	<5.0	30	AELC
19	3/21/85	NA	<0.5	<0.5	<0.5	91	<0.5	23	<0.5	<0.5	B&C
21	6/13/85	NA	<50	800	<50	2,200	110	<50	380	<50	B&C

* See Table 8 for explanation

TABLE 7

SUMMARY OF ANALYTICAL RESULTS - PURGEABLE HALOCARBONS
DEEP WELLS

Well No.	Date	Depth	1,1-DCE* (ug/l)	1,2-DCE (ug/l)	1,1-DCA (ug/l)	TCE (ug/l)	TCA (ug/l)	PCE (ug/l)	Methylene Chloride (ug/l)	Vinyl Chloride (ug/l)	Lab (a)
3A	10/29/91	61.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	AELC
18A	6/13/85	NA	<0.5	<0.5	<0.5	10	<0.5	<0.5	2.4	<0.5	B&C
	11/19/91	40.65	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	AELC
20	11/15/91	46.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	AELC

* See Table 8 for explanation

TABLE 8

EXPLANATION OF TERMS

NOTES
Chemical abbreviations:

DCE	Dichloroethene
DCA	Dichloroethane
TCE	Trichloroethene
TCA	Trichloroethane (1,1,1 isomer)
PCE	Tetrachloroethene
--	No data, Not analyzed
NA	Not available
ug/l	microgams per liter (equal to parts per billion)
< 10	Not detected at or above the indicated laboratory detection limit

a Analytical laboratories:

Anlab	Anlab; Data from Kleinfelder files B-1132-3, B-1132-4, and B-1132-5.
AELC	American Environmental Laboratories Corporation (State Certification No. 1233)
B&C	Brown and Caldwell. Data from Kleinfelder files B-1132-3, B-1132-4 and B-1132-5.
CT	Curtis and Tompkins. Data from Kleinfelder files B-1132-3, B-1132-4 and B-1132-5.
Ultrachem	Ultrachem Laboratories; Data reported by Woodward Clyde Consultants. Reported in their Report on Phase I Groundwater Investigation, E-C Industries, Emeryville, California 30 March 1981.

b Chloroform reported at a concentration of 88 ug/l

c Chloroform reported at a concentration of 84 ug/l

d Data from sequential samples collected during a pumping test conducted by Woodward Clyde Consultants. Samples collected hourly from 10:30 am to 4:30 pm and at 5:00 pm. Reported in Woodward Clyde Consultants, Report of Findings, Monitoring Well Installations, Electro-Coatings, Inc., Emeryville, California, 20 September 1977.

CONCLUSIONS AND RECOMMENDATIONS

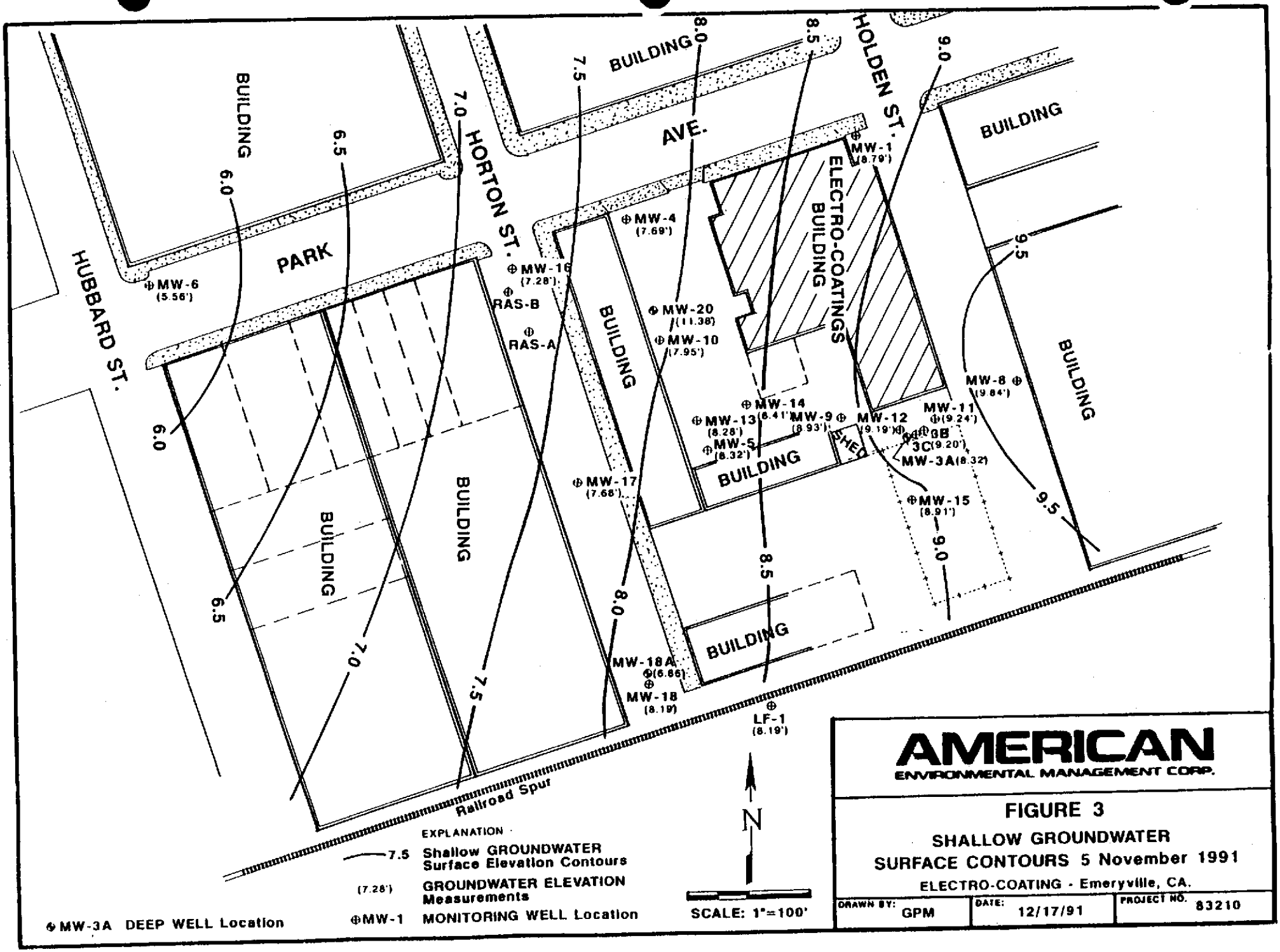
DISCUSSION

Four of the twenty-four existing groundwater monitoring wells could not be located. As listed in Table 1 and shown in Figure 2, they are the offsite wells, numbers MW-2, MW-7, MW-19 and MW-21. In general, the found monitoring wells were in good condition. The major repair consisted of installing watertight well covers and locking well caps. A few feet of silt had accumulated in the wells which was removed to the extent possible. Table 1 lists the original and current well depths. The deep wells (MW-3A, MW-18A and MW-20) have from 4 to 11 feet of silt remaining which will require jetting techniques to remove. The amount of silt remaining, however, appears to have little effect on the magnitude of the laboratory analytical results.

Shallow groundwater surface contours determined from measurements taken on 5 November 1991 are shown on Figure 3. The groundwater surface slopes downward to the west-northwest at a gradient of approximately 0.58 percent. This also indicates the groundwater flow direction. These contours are similar to the previous contours shown on Plates 6, 7 and 8, Appendix C, prepared by Kleinfelder, Inc., for the years 1981, 1983, 1985 and 1991, respectively.

Figure 3 also shows the location of the deep wells (MW-3A, 18A and MW-20) and the corresponding groundwater elevation. The elevation difference between the deeper MW-3A and the nearby shallower MW-3B, the deeper MW-18A and the shallower MW-18, suggests a downward gradient at these locations. The elevation difference between the deeper MW-20 and the shallower MW-10 suggest an upward gradient.

Total Chromium isocons in shallow groundwater are shown in Figure 4 for the current sampling. When compared with the isocons from previous years, Plates 10, 11 and 12, for



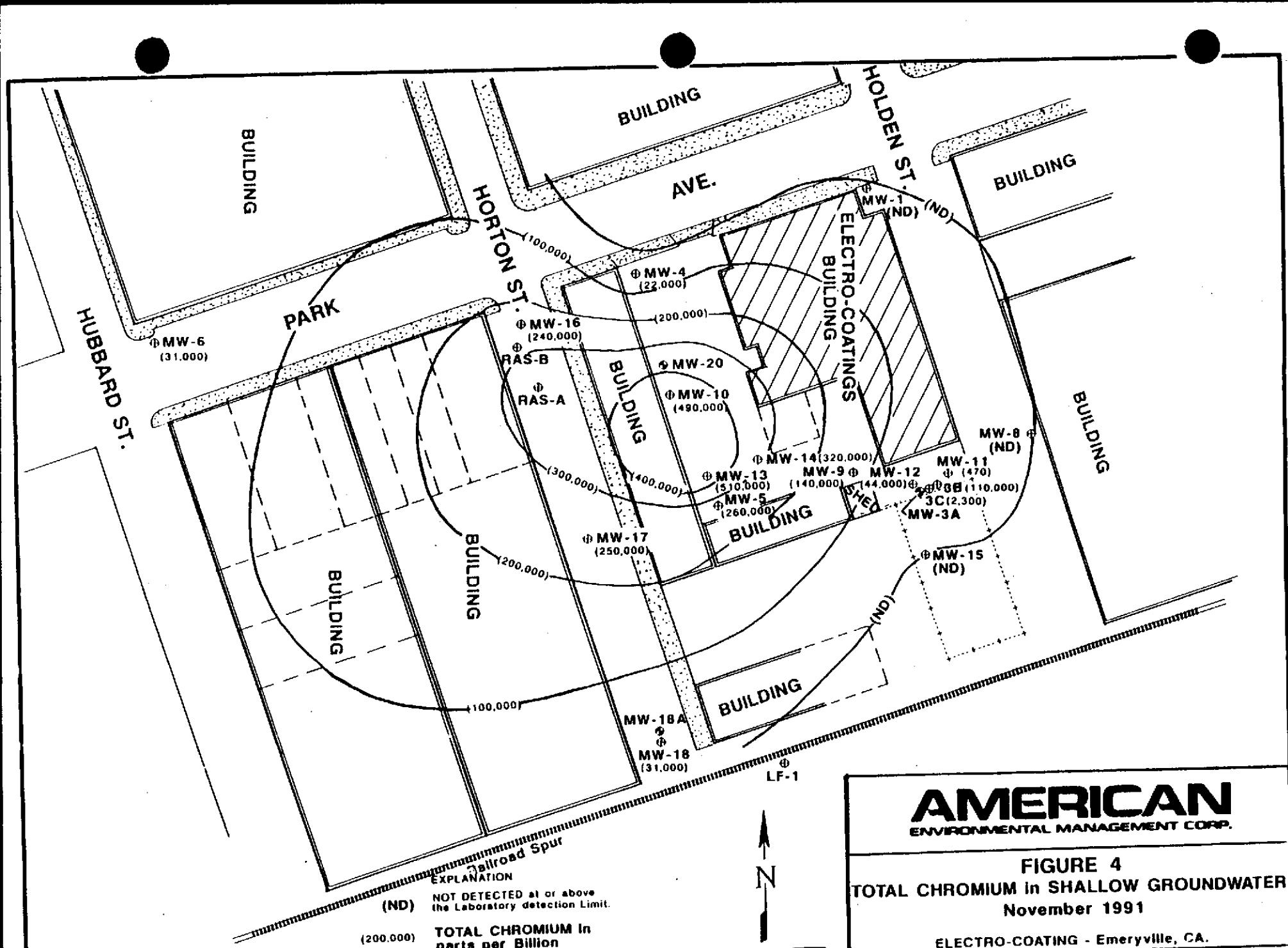
AMERICAN
ENVIRONMENTAL MANAGEMENT CORP.

FIGURE 3

SHALLOW GROUNDWATER SURFACE CONTOURS 5 November 1991

ELECTRO-COATING - Emeryville, CA.

DRAWN BY:	DATE:	PROJECT NO.
GPM	12/17/91	83210



AMERICAN ENVIRONMENTAL MANAGEMENT CORP.

FIGURE 4
TOTAL CHROMIUM in SHALLOW GROUNDWATER
November 1991

ELECTRO-COATING - Emeryville, CA.

DRAWN BY:	DATE:	PROJECT NO.
GPM	12/17/91	83210

the years 1977, 1981 and 1985, the general trend for concentrations onsite in the later years is declining while in the offsite wells they are increasing, suggesting a widening of the plume. Isocons for Chromium-6 are shown in Figure 5.

Isocons for Trichloroethene (TCE) are shown in Figure 6 for the current sampling, and Plate 13 for the year 1985. The comparison of the concentrations for these years show a decrease in the up-gradient wells (MW-1, MW-11, MW-9, MW-8 and MW-15). The down-gradient wells, both onsite and offsite, show elevated concentrations which suggest an expansion of the TCE plume.

In the deep wells, Table 4 shows that Total Chromium in MW-3A has decreased, and was not detected in MW-18A and MW-20. Table 7 shows that TCE was also not detected in any of the three deep wells.

A historical summary of the well by well analytical results is presented in Tables 3 through 7. The following table compares the results from the selected filtered and non-filtered samples. This comparison demonstrates that there are negligible effects from filtering the samples and that there is only a minor difference between the Chromium and Hexavalent Chromium results.

Sample No.	Chromium (f)* (ug/l)	Chromium (nf) (ug/l)	Chromium-6 (f) (ug/l)	Chromium-6 (nf) (ug/l)
MW-3	1,700	1,600	--	--
MW-4	44,000	45,000	39,000	45,000
MW-12	22,000	--	22,000	22,000
MW-13	510,000	--	430,000	430,000

* (f) Filtered sample
(nf) Non-filtered sample

RECOMMENDATIONS

- AEMC recommends that monitoring wells MW-7, MW-19 and MW-21 (Figure 2) be located and included in the next sampling period. Special locating devices such as a magnetometer or ground-penetrating radar will be needed. The found wells will have to be repaired, redeveloped and surveyed for location and elevation. If MW-21 cannot be found, permission to sample LF-1 can be obtained. Preliminary discussion with the Levine-Frickie project geologist indicates that permission can be obtained.

- AEMC recommends that selected wells be sampled on a semi-annual basis with monthly water level measurements. The selected wells are:

SHALLOW	DEEP
MW-1	MW-3A
MW-8	MW-18A
MW-21/LF-1	MW-20
MW-18	
MW-12	
MW-14	
MW-10	
MW-4	
MW-19	
MW-16	
MW17	
MW-6	
MW-7	

The remaining wells should be maintained for future use as applicable. Monitoring of the selected wells will provide groundwater quality information for both the shallow and deep aquifers; and, the distribution of the wells will provide for aerial coverage of the groundwater plume.

the years 1977, 1981 and 1985, the general trend for concentrations onsite in the later years is declining while in the offsite wells they are increasing, suggesting a widening of the plume. Isocons for Chromium-6 are shown in Figure 5.

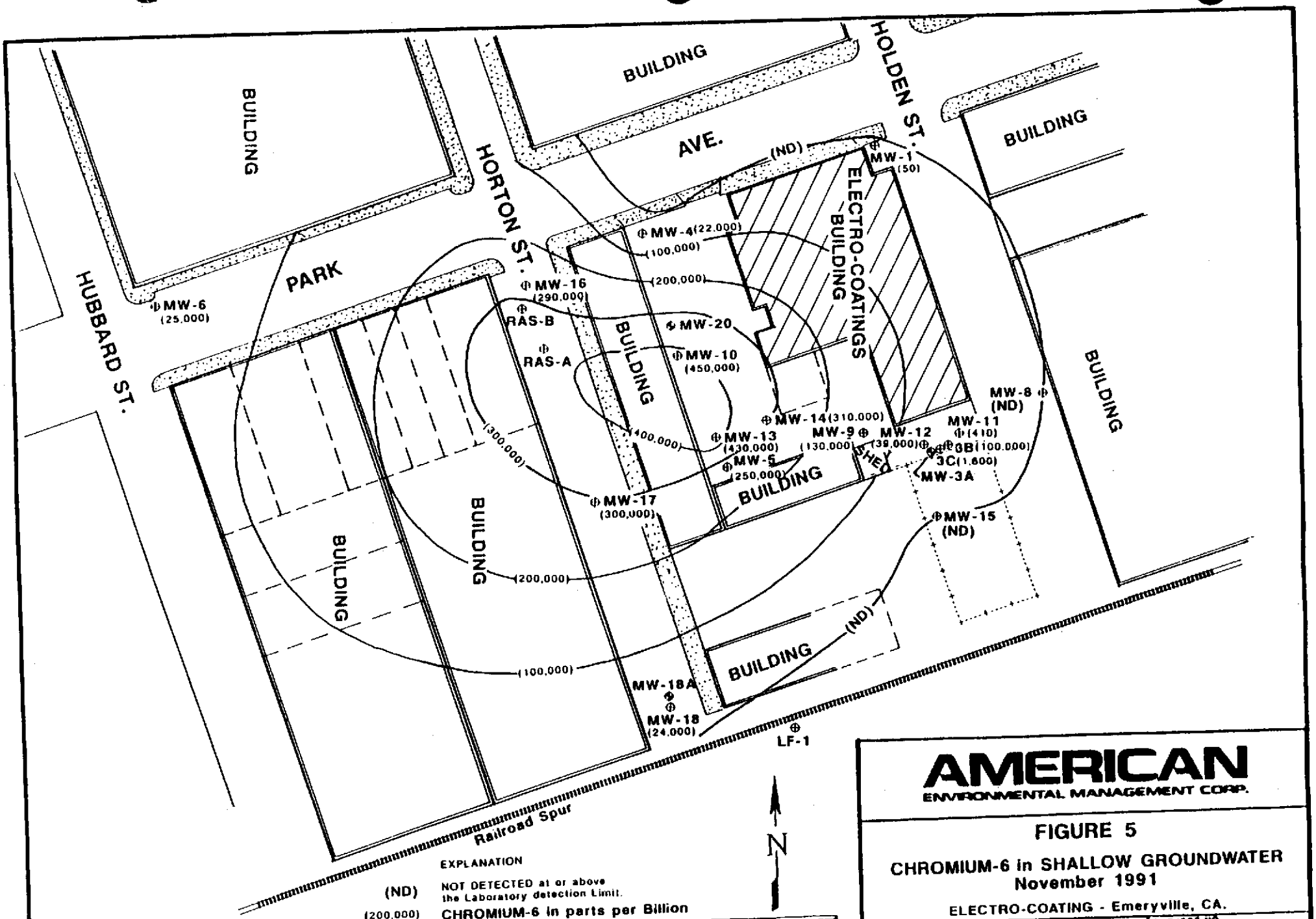
Isocons for Trichloroethene (TCE) are shown in Figure 6 for the current sampling, and Plate 13 for the year 1985. The comparison of the concentrations for these years show a decrease in the up-gradient wells (MW-1, MW-11, MW-9, MW-8 and MW-15). The down-gradient wells, both onsite and offsite, show elevated concentrations which suggest an expansion of the TCE plume.

In the deep wells, Table 4 shows that Total Chromium in MW-3A has decreased, and was not detected in MW-18A and MW-20. Table 7 shows that TCE was also not detected in any of the three deep wells.

A historical summary of the well by well analytical results is presented in Tables 3 through 7. The following table compares the results from the selected filtered and non-filtered samples. This comparison demonstrates that there are negligible effects from filtering the samples and that there is only a minor difference between the Chromium and Hexavalent Chromium results.

Sample No.	Chromium (f)* (ug/l)	Chromium (nf) (ug/l)	Chromium-6 (f) (ug/l)	Chromium-6 (nf) (ug/l)
MW-3	1,700	1,600	--	--
MW-4	44,000	45,000	39,000	45,000
MW-12	22,000	--	22,000	22,000
MW-13	510,000	--	430,000	430,000

* (f) Filtered sample
(nf) Non-filtered sample



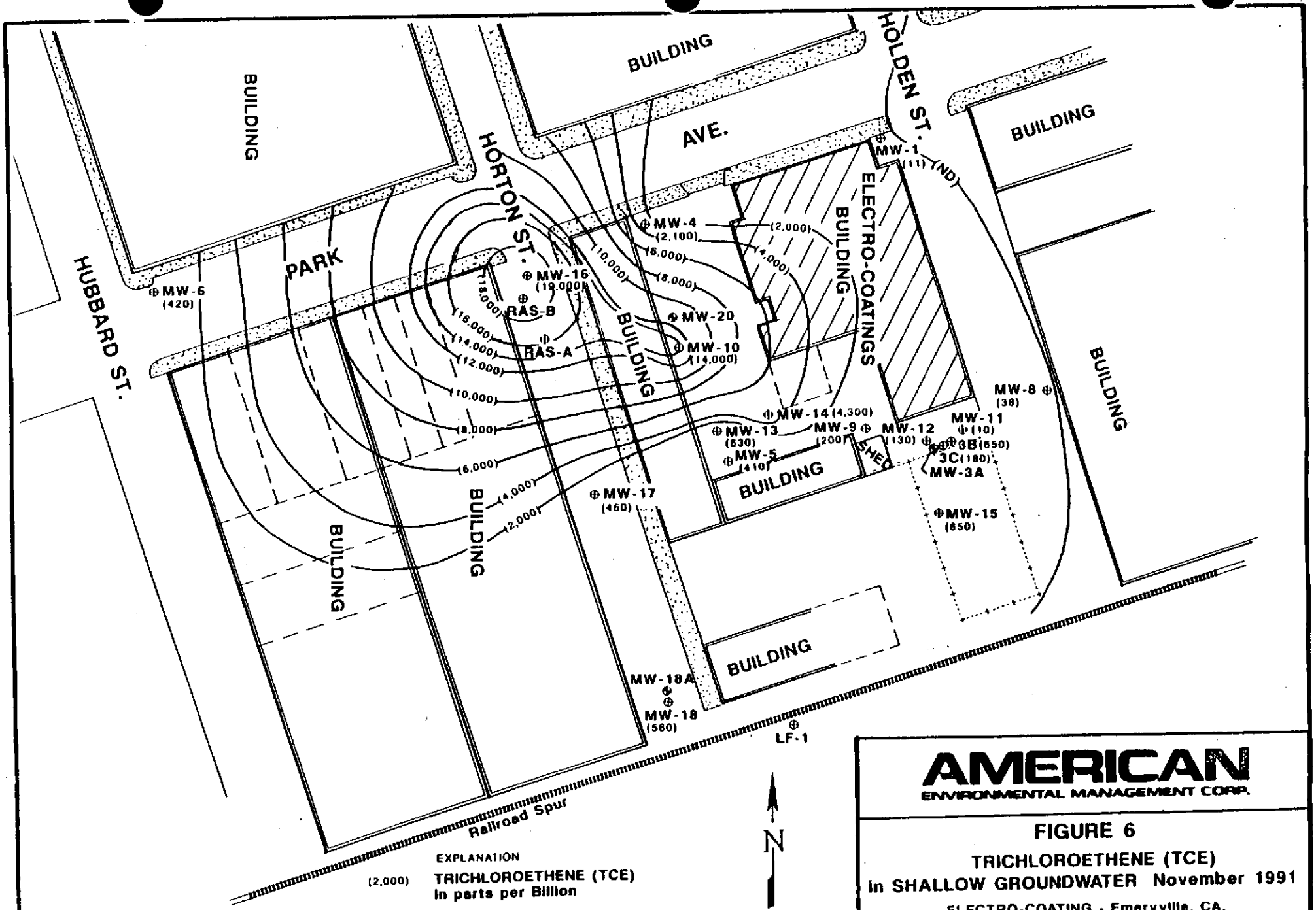
AMERICAN ENVIRONMENTAL MANAGEMENT CORP.

FIGURE 5

CHROMIUM-6 in SHALLOW GROUNDWATER November 1991

ELECTRO-COATING - Emeryville, CA.

DRAWN BY:	DATE:	PROJECT NO.
GPM	12/17/91	83210



EXPLANATION

(2,000) TRICHLOROETHENE (TCE) in parts per Billion

⊕MW-3A DEEP MONITORING WELL Location

⊕MW-1 MONITORING WELL Location

SCALE: 1"=100'

AMERICAN ENVIRONMENTAL MANAGEMENT CORP.

FIGURE 6

TRICHLOROETHENE (TCE) in SHALLOW GROUNDWATER November 1991

ELECTRO-COATING - Emeryville, CA.

DRAWN BY:	DATE:	PROJECT NO.
GPM	12/17/91	83210

RECOMMENDATIONS

- AEMC recommends that monitoring wells MW-7, MW-19 and MW-21 (Figure 2) be located and included in the next sampling period. Special locating devices such as a magnetometer or ground-penetrating radar will be needed. The wells, if found, will have to be repaired, redeveloped and surveyed for location and elevation. If MW-21 cannot be found, well LF-1 should be used. Preliminary discussion with the Levine-Frickie project geologist for the owner of the well indicates that permission can be obtained for AEMC to sample well LF-1.

- AEMC recommends that selected wells be sampled on a semi-annual basis. The selected wells are:

SHALLOW	DEEP
MW-1	MW-3A
MW-8	MW-18A
MW-21/LF-1	MW-20
MW-18	
MW-12	
MW-14	
MW-10	
MW-4	
MW-19	
MW-16	
MW17	
MW-6	
MW-7	

The remaining wells should be maintained for future use as applicable. Monitoring of the selected wells will provide groundwater quality information for both the shallow and deep aquifers; and, the distribution of the wells will provide for aerial coverage of the groundwater plume.

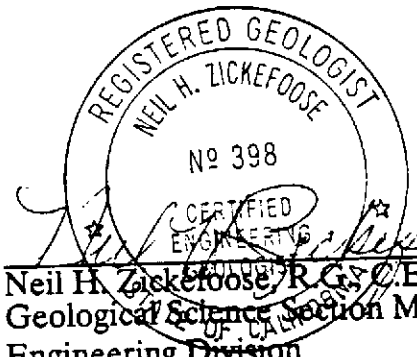
- The groundwater analyses should include Total Chromium (EPA Method 6010) and Purgeable Halocarbons (EPA Method 601).

- An annual groundwater monitoring report summarizing the past and current results should be prepared including drawings showing the groundwater elevation contours, isocons for Total Chromium and Trichloroethene (TCE) and further recommendations relating to the plume definition as applicable.

STANDARD OF CARE

This report has been prepared for Electro-Coatings Inc., Emeryville, California to summarize the Groundwater Monitoring Program at Emeryville, California. The work performed by American Environmental Management Corporation was based on currently available information and was developed in accordance with currently acceptable engineering practices at that time and location. Other than this, no warranty is implied or extended. This report was prepared under the direction of a California Registered Geologist.

AMERICAN ENVIRONMENTAL MANAGEMENT CORPORATION



Neil H. Zickefoose, R.G., C.E.G. 398
Geological Science Section Manager
Engineering Division

APPENDIX A

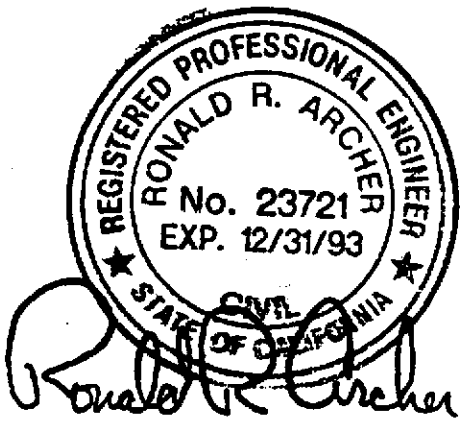
WELL SURVEY REPORT

by

RON ARCHER, P.E.

RON ARCHER
CIVIL ENGINEER, INC.
CONSULTING • PLANNING • DESIGN • SURVEYING

4133 Mohr Ave., Suite E • Pleasanton, CA 94566
(415) 462-9372



OCTOBER 29, 1991 JOB NO. 1856

ELEVATIONS OF EXISTING MONITOR WELLS AT AND IN THE VICINITY OF THE ELECTRO-COATINGS FACILTY, PLANT NO.22, LOCATED AT 1421 PARK AVENUE, AT HOLDEN STREET, CITY OF EMERYVILE, ALAMEDA COUNTY, CALIFORNIA.

FOR: AMERICAN ENVIRONMENTAL MANAGEMENT CORP.
PROJECT NO. 10-2200-01

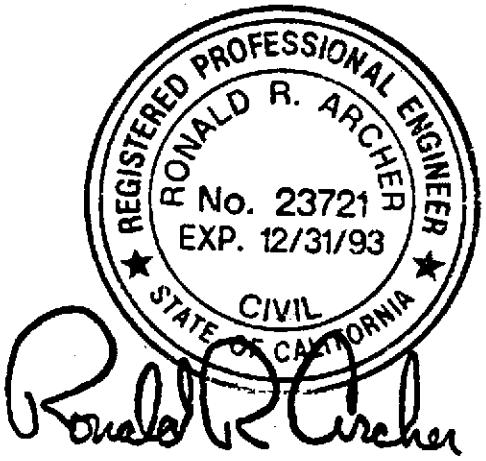
BENCHMARK: #H-130 (1932)
A FOUND U.S.G.S. DISC STAMPED H-130 SET APPROXIMATELY 3 FT. ABOVE GROUND ON THE NORTH FACE OF THE TOWN HALL BUILDING LOCATED AT 1333 PARK AVENUE AT HOLLIS STREET AT THE NORTHEAST CORNER OF BUILDING. ELEVATION TAKEN AS 24.514 M.S.L. 1974 ADJUSTMENT.

MONITOR WELL DATA TABLE

WELL NO.	ELEVATION	DESCRIPTION
MW1	15.19	TOP OF PVC CASING
	15.16	TOP OF CONCRETE
MW-3A	16.10	TOP OF PVC CASING
	16.50	TOP OF PK NAIL
MW-3B	16.30	TOP OF PVC CASING
	16.54	TOP OF PK NAIL
MW-3C	16.21	TOP OF PVC CASING
	16.55	TOP OF PK NAIL
MW4	14.29	TOP OF PVC CASING
	15.50	TOP OF PK NAIL
MW5	15.87	TOP OF PVC CASING
	15.95	TOP OF PK NAIL

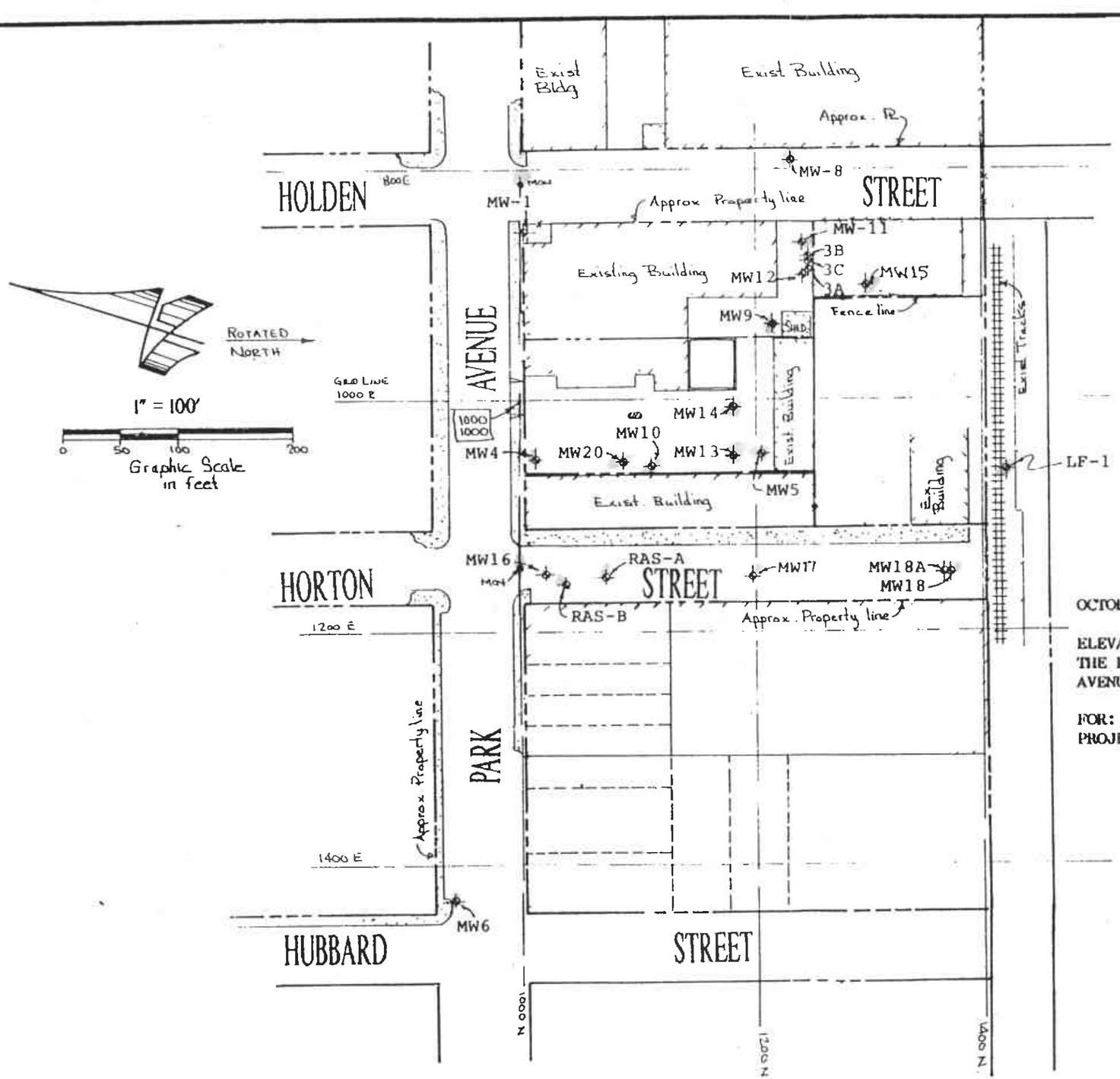
MONITOR WELL DATA TABLE

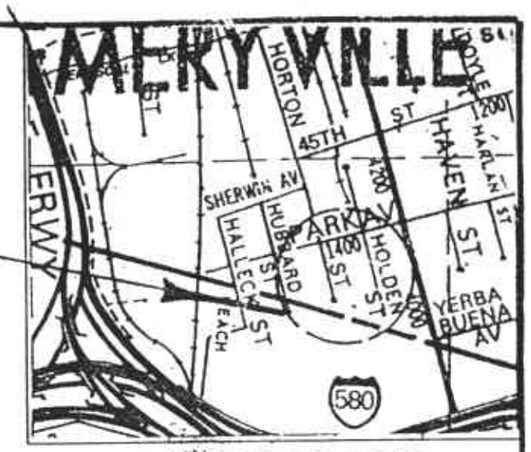
WELL NO.	ELEVATION	DESCRIPTION
MW6	9.24	TOP OF PVC CASING
	9.53	TOP OF PK NAIL
MW8	16.42	TOP OF PVC CASING
	16.63	TOP OF PK NAIL
MW9	16.03	TOP OF PVC CASING
	16.43	TOP OF PK NAIL
MW10	15.10	TOP OF PVC CASING
	15.33	TOP OF PK NAIL
MW11	15.94	TOP OF PVC CASING
	16.38	TOP OF PK NAIL
MW12	16.04	TOP OF PVC CASING
	16.47	TOP OF PK NAIL
MW13	15.37	TOP OF PVC CASING
	15.79	TOP OF PK NAIL
MW14	15.49	TOP OF PVC CASING
	15.76	TOP OF PK NAIL



MONITOR WELL DATA TABLE

WELL NO.	ELEVATION	DESCRIPTION
MW15	17.26	TOP OF PVC CASING
	17.69	TOP OF PK NAIL
MW16	12.08	TOP OF PVC CASING
	12.28	TOP OF PK NAIL
MW17	12.76	TOP OF PVC CASING
	12.92	TOP OF PK NAIL
MW18	13.57	TOP OF PVC CASING
	13.71	TOP OF PK NAIL
MW-18A	13.36	TOP OF PVC CASING
	13.70	TOP OF PK NAIL
MW20	14.93	TOP OF PVC CASING
	15.17	TOP OF PK NAIL
RAS-A	12.13	TOP OF PVC CASING
	12.43	TOP OF BOX
LF-1	14.30	TOP OF IRON CASING
	13.26	"NORTH" GROUND





SITE

VICINITY MAP
N.T.S.

OCTOBER 29, 1991 JOB NO. 1856

ELEVATIONS OF EXISTING MONITOR WELLS AT AND IN THE VICINITY OF THE ELECTRO-COATINGS FACILTY, PLANT NO.22, LOCATED AT 1421 PARK AVENUE, CITY OF EMERYVILE, ALAMEDA COUNTY, CALIFORNIA.

FOR: AMERICAN ENVIRONMENTAL MANAGEMENT CORP.
PROJECT NO. 10-2200-01

REGISTERED PROFESSIONAL ENGINEER
RONALD R. ARCHER
No. 23721
EXP. 12/31/93
CIVIL
STATE OF CALIFORNIA

RON ARCHER
CIVIL ENGINEER, INC.
CONSULTING • PLANNING • DESIGN • SURVEYING
4133 Mohr Ave., Suite E • Pleasanton, CA 94566
(415) 462-9378

APPENDIX B

AMERICAN ENVIRONMENTAL LABORATORIES

ANALYTICAL REPORTS

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

11/25/91

Attn : MARK REISIG

Re: *Project :* ELECTRO COATINGS - EMERYVILLE
Project No. : 83210
*Chain of Custody number :*30363
Date Samples Received : 11/11/91 *Job No.:* 83210
No. Samples Received : 3 *AELC Lab No. :* L7703

These samples were received by American Environmental Laboratories in a chilled, intact state, and accompanied by valid chain of custody documentation.

The following analyses were performed on the above referenced project:

No. of Samples	*Analysis*
3	Chromium by EPA Method 6010
3	TTLC Acid Digestion
3	Chrome VI Analysis
2	Halogenated Volatiles by EPA Method 601

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

George Hampton

Laboratory Director

3249 Fitzgerald Road • Rancho Cordova, CA 95742 • Fax (916) 638-4510 • (916) 638-7301

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Sampled: 11/11/91
Date Received: 11/11/91
Date Digested: 11/12/91
Date Analyzed: 11/12/91
Date Reported: 11/25/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703
Batch No.: 53186
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Cr (Chromium) CAS No. 7440-47-3 (mg/L)
MW-12	1C	45
MW-12 filtered	2B	44
MW-14	3C	320
Rep. Limit		0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Analyzed: 11/12/91
Date Reported: 11/25/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703
Batch No.: 53186
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Cr (Chromium)	7440-47-3	ND	0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Digested: 11/12/91
Date Analyzed: 11/12/91
Date Reported: 11/25/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703
Batch No.: 53186
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	109

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	107

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cr (Chromium)	7440-47-3	2

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Reported: 11/25/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703
Batch No.: 53186
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	102

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Sampled: 11/11/91
Date Received: 11/11/91
Date Prepared: N/A
Date Analyzed: 11/11/91
Date Reported: 11/25/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703
Batch No.: 53183
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Hexavalent Chromium (mg/L)
MW-12	1B	45
MW-12 filtered	2A	39
MW-14	3B	310
Rep. Limit		0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Analyzed: 11/11/91
Date Reported: 11/25/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703
Batch No.: 53183
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Hexavalent Chromium	N/A	ND	0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Prepared: N/A
Date Analyzed: 11/11/91
Date Reported: 11/25/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703
Batch No.: 53183
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Hexavalent Chromium	N/A	0.20	100

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Hexavalent Chromium	N/A	0.20	100

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Hexavalent Chromium	N/A	0

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Reported: 11/25/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703
Batch No.: 53183
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc (mg/L)	LCS Recovery (percent)
Hexavalent Chromium	N/A	0.20	99

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

Project: ELECTRO COATINGS - EMERYVILLE

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703-1A
Batch No.: 8338
Matrix: WATER

Date Sampled: 11/11/91
Date Received: 11/11/91
Date Extracted: 11/19/91
Date Analyzed: 11/19/91
Date Reported: 11/22/91
Client ID No.: MW-12

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	110

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	1.0
Bromoform	75-25-2	ND	2.0
Bromomethane	74-83-9	ND	2.0
Carbon tetrachloride	56-23-5	ND	1.0
Chlorobenzene	108-90-7	ND	1.0
Chloroethane	75-00-3	ND	2.0
2-Chloroethyl vinyl ether	110-75-8	ND	2.0
Chloroform	67-66-3	ND	1.0
Chloromethane	74-87-3	ND	5.0
Dibromochloromethane	124-48-1	ND	1.0
Dibromomethane	74-95-3	ND	1.0
1,2-Dichlorobenzene	95-50-1	ND	1.0
1,3-Dichlorobenzene	541-73-1	ND	1.0
1,4-Dichlorobenzene	106-46-7	ND	1.0
Dichlorodifluoromethane	75-71-8	ND	2.0
1,1-Dichloroethane	75-34-3	1.3	1.0
1,2-Dichloroethane	107-06-2	2.6	1.0
1,1-Dichloroethene	75-35-4	3.3	1.0
1,2-Dichloroethene, total	540-59-0	9.0	1.0
1,2-Dichloropropane	78-87-5	ND	1.0
cis-1,3-Dichloropropene	10061-01-5	ND	1.0
trans-1,3-Dichloropropene	10061-02-6	ND	1.0
Methylene chloride	75-09-2	ND	1.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.0
Tetrachloroethene	127-18-4	10	1.0
1,1,1-Trichloroethane	71-55-6	4.6	1.0
1,1,2-Trichloroethane	79-00-5	ND	1.0
Trichloroethene	79-01-6	130	1.0
Trichlorofluoromethane	75-69-4	ND	1.0
1,1,2-Trichlorotrifluorethane	76-13-1	ND	1.0
Vinyl chloride	75-01-4	ND	2.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Sampled: 11/11/91
Date Received: 11/11/91
Date Extracted: 11/19/91
Date Analyzed: 11/19/91
Date Reported: 11/22/91
Client ID No.: MW-14

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703-3A
Batch No.: 8338
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	99

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	5.0
Bromoform	75-25-2	ND	10
Bromomethane	74-83-9	ND	10
Carbon tetrachloride	56-23-5	ND	5.0
Chlorobenzene	108-90-7	ND	5.0
Chloroethane	75-00-3	ND	10
2-Chloroethyl vinyl ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5.0
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5.0
Dibromomethane	74-95-3	ND	5.0
1,2-Dichlorobenzene	95-50-1	ND	5.0
1,3-Dichlorobenzene	541-73-1	ND	5.0
1,4-Dichlorobenzene	106-46-7	ND	5.0
Dichlorodifluoromethane	75-71-8	ND	10
1,1-Dichloroethane	75-34-3	19	5.0
1,2-Dichloroethane	107-06-2	ND	5.0
1,1-Dichloroethene	75-35-4	13	5.0
1,2-Dichloroethene, total	540-59-0	150	5.0
1,2-Dichloropropane	78-87-5	ND	5.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0
Methylene chloride	75-09-2	ND	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0
Tetrachloroethene	127-18-4	13	5.0
1,1,1-Trichloroethane	71-55-6	17	5.0
1,1,2-Trichloroethane	79-00-5	ND	5.0
Trichloroethene	79-01-6	4300	5.0
Trichlorofluoromethane	75-69-4	ND	5.0
1,1,2-Trichlorotrifluorethane	76-13-1	ND	5.0
Vinyl chloride	75-01-4	30	10

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Analyzed: 11/19/91
Date Reported: 11/22/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703
Batch No.: 8338
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	96

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Analyzed: 11/19/91
Date Reported: 11/22/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703
Batch No.: 8338
Matrix: WATER

MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/L)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	105

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/L)	MS Recovery (percent)
Chlorobenzene	108-90-7	20	87
1,1-Dichloroethene	75-35-4	20	79
Trichloroethene	79-01-6	20	92

MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/L)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	103

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/L)	MSD Recovery (percent)
Chlorobenzene	108-90-7	20	91
1,1-Dichloroethene	75-35-4	20	78
Trichloroethene	79-01-6	20	97

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Chlorobenzene	108-90-7	4
1,1-Dichloroethene	75-35-4	1
Trichloroethene	79-01-6	5

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ELECTRO COATINGS - EMERYVILLE

Date Reported: 11/22/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 364-8872

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 30363
AELC ID No.: L7703
Batch No.: 8338
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	96
Trichloroethene	79-01-6	20	98

3249 Fitzgerald Road • Rancho Cordova, CA 95742 • (916) 638-4510 • (916) 638-7301

AMERICAN ENVIRONMENTAL LABORATORIES CORP.

CHAIN OF CUSTODY

LOG NO. 30363

CLIENT NAME: Electro Coating
ADDRESS: Emeryville (EC-E)
PROJECT NAME: Electro Coatings - Emeryville
PROJECT MANAGER: Mark Reisig PHONE #:
SAMPLED BY: Mark Reisig
JOB DESCRIPTION: Water Sampling
SITE LOCATION: Emeryville

CLIENT JOB NUMBER: 6321C

DESTINATION LABORATORY:
- ☐ AELC 3249 FITZGERALD RD. RANCHO CORDOVA, CA. 95742
- ☐ OTHER

DATE	TIME	SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE METHOD	SAMPLE TYPE	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Total Chrome	Hex Chrome	EPA Method 601
11/1/91	-	MW-12	-	-	water	3	2 VOA 1 poly	3	✓	✓	✓
11/1/91	-	MW-12	-	-	water	1	1 poly	3	✓	✓	✓
11/1/91	-	MW-14	-	-	water	3	2 VOA 1 poly	3	✓	✓	✓

FIELD CONDITIONS:

COMPOSITE:

SPECIAL INSTRUCTIONS:

TURN AROUND TIME: 24 HOURS | 48 HOURS | 1 WEEK | 2 WEEKS

NOTE / FIELD READINGS:
- ✓ 2 WEEKS: Filter and preserve
- ✓ 2 WEEKS: Preserve
- ✓ 2 WEEKS: Preserve

SUSPECTED CONSTITUENTS:

SAMPLE RETENTION TIME:

PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4)

RELINQUISHED BY (SIGN)	PRINT NAME/COMPANY	DATE/TIME	REC'D BY (SIGN)	PRINT NAME/COMPANY
Mark R. Reisig	AELC	11/1/91 5:30pm		NATHAN PHILLIPS / AELC

REC'D AT LAB BY: DATE/TIME: CONDITIONS/COMMENTS:

SHIPPED: ☐ FED X ☐ UPS ☒ OTHER: AGENT AIRBILL #

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

11/22/91

Attn : Mark Reisig

Re: *Project* : ECI-Emeryville
Project No. : 83210
Chain of Custody number :20668
Date Samples Received : 11/08/91 *Job No.*: 83210
No. Samples Received : 2 *AELC Lab No.* : L7696

These samples were received by American Environmental Laboratories in a chilled, intact state, and accompanied by valid chain of custody documentation.

The following analyses were performed on the above referenced project:

No. of Samples	*Analysis*
1	Chromium by EPA Method 6010
2	Chrome VI Analysis
1	Halogenated Volatiles by EPA Method 601

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

George Hampton

Laboratory Director

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Sampled: 11/08/91
Date Received: 11/08/91
Date Digested: 11/13/91
Date Analyzed: 11/13/91
Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696
Batch No.: 53191
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Cr (Chromium) CAS No. 7440-47-3 (mg/L)
MW-13	1C	510
Rep. Limit		0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Analyzed: 11/13/91
Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696
Batch No.: 53191
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Cr (Chromium)	7440-47-3	ND	0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Digested: 11/13/91
Date Analyzed: 11/13/91
Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696
Batch No.: 53191
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	108

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	99

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cr (Chromium)	7440-47-3	9

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696
Batch No.: 53191
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	105

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Sampled: 11/08/91
Date Received: 11/08/91
Date Prepared: N/A
Date Analyzed: 11/08/91
Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696
Batch No.: 53171
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Hexavalent Chromium (mg/L)
MW-13	1B	430
MW-13 filtered	2A	430
Rep. Limit		0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Analyzed: 11/08/91
Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696
Batch No.: 53171
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Hexavalent Chromium	N/A	ND	0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Prepared: N/A
Date Analyzed: 11/08/91
Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696
Batch No.: 53171
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Hexavalent Chromium	N/A	0.20	100

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Hexavalent Chromium	N/A	0.20	100

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Hexavalent Chromium	N/A	0

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696
Batch No.: 53171
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Hexavalent Chromium	N/A	0.20	100

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Sampled: 11/08/91
Date Received: 11/08/91
Date Extracted: 11/14/91
Date Analyzed: 11/14/91
Date Reported: 11/20/91
Client ID No.: MW-13

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696-1A
Batch No.: 8313
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	97

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	5.0
Bromoform	75-25-2	ND	10
Bromomethane	74-83-9	ND	10
Carbon tetrachloride	56-23-5	ND	5.0
Chlorobenzene	108-90-7	ND	5.0
Chloroethane	75-00-3	ND	10
2-Chloroethyl vinyl ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5.0
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5.0
Dibromomethane	74-95-3	ND	5.0
1,2-Dichlorobenzene	95-50-1	ND	5.0
1,3-Dichlorobenzene	541-73-1	ND	5.0
1,4-Dichlorobenzene	106-46-7	ND	5.0
Dichlorodifluoromethane	75-71-8	ND	10
1,1-Dichloroethane	75-34-3	15	5.0
1,2-Dichloroethane	107-06-2	ND	5.0
1,1-Dichloroethene	75-35-4	6.8	5.0
1,2-Dichloroethene, total	540-59-0	89	5.0
1,2-Dichloropropane	78-87-5	ND	5.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0
Methylene chloride	75-09-2	ND	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0
Tetrachloroethene	127-18-4	8.9	5.0
1,1,1-Trichloroethane	71-55-6	ND	5.0
1,1,2-Trichloroethane	79-00-5	ND	5.0
Trichloroethene	79-01-6	630	5.0
Trichlorofluoromethane	75-69-4	ND	5.0
1,1,2-Trichlorotrifluorethane	76-13-1	ND	5.0
Vinyl chloride	75-01-4	20	10

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Analyzed: 11/14/91
Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696
Batch No.: 8313
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	106

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Analyzed: 11/14/91
Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696
Batch No.: 8313
Matrix: WATER

MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/L)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	106

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/L)	MS Recovery (percent)
Chlorobenzene	108-90-7	20	98
1,1-Dichloroethene	75-35-4	20	91
Trichloroethene	79-01-6	20	97

MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/L)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	106

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/L)	MSD Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	89
Trichloroethene	79-01-6	20	97

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Chlorobenzene	108-90-7	4
1,1-Dichloroethene	75-35-4	2
Trichloroethene	79-01-6	0

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: ECI-Emeryville

Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20668
AELC ID No.: L7696
Batch No.: 8313
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	96
Trichloroethene	79-01-6	20	98

AMERICAN ENVIRONMENTAL MANAGEMENT CORP.

CHAIN OF CUSTODY

LOG NO. 20668

CLIENT NAME: ECI Emeryville
ADDRESS:

CLIENT JOB NUMBER: 83210

DESTINATION LABORATORY:
☒ AETC
3249 FITZGERALD RD.
RANCHO CORDOVA, CA.
95670

☐ OTHER

PROJECT NAME: ECI - Emeryville
PROJECT MANAGER: Mark Riesig PHONE #:
SAMPLED BY: SDT & MR
JOB DESCRIPTION:
SITE LOCATION:

FIELD CONDITIONS:

COMPOSITE: 1

SPECIAL INSTRUCTIONS: Filter & preserve 2 VOAs & 1 Poly
Preserve 1 Poly (Do NOT Filter)

	DATE	TIME	SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE METHOD	SAMPLE TYPE	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Cr	Hex Cr	601
1	11/8/91	—	MW-13	—	—	H_2O	2	VOAs	3	/	/	/
							1	Poly				
2	11/8/91	—	MW-13	—	—	H_2O	1	Poly	3	/	/	

TURN AROUND TIME: 24 HOURS | 48 HOURS | 1 WEEK | 2 WEEKS

NOTE / FIELD READINGS:

SUSPECTED CONSTITUENTS: Cr

SAMPLE RETENTION TIME:

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME	REMARKS
[signature]	11/8/91-1657	Joan Chavez / Joan Chavez	11/8/91 1657	

PRESERVATIVES:
(1) HCL
(2) HNO_3
(3) COLD
(4)

LAB TO SEND RESULTS TO:
Mark Riesig ORIGINAL
COPY

SHIPPED VIA: ☐ FED X ☐ UPS ☐ OTHER
AIRBILL #:

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

11/22/91

Attn : Mark Reisig

Re: *Project :* Electro Coatings Inc, Emeryville
Project No. : 83210
*Chain of Custody number :*20667
Date Samples Received : 11/08/91 *Job No.:* 83210
No. Samples Received : 1 *AELC Lab No. :* L7689

These samples were received by American Environmental Laboratories in a chilled, intact state, and accompanied by valid chain of custody documentation.

The following analyses were performed on the above referenced project:

No. of Samples	*Analysis*
1	Chromium by EPA Method 6010
1	Chrome VI Analysis
1	Halogenated Volatiles by EPA Method 601

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

George Hampton

Laboratory Director

3249 Fitzgerald Road • Rancho Cordova, CA 95742 • Fax (916) 638-4510 • (916) 638-7301

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Sampled: 11/07/91
Date Received: 11/08/91
Date Digested: 11/08/91
Date Analyzed: 11/11/91
Date Reported: 11/22/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No : 20667
AELC ID No.: L7689
Batch No.: 53168
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Cr (Chromium) CAS No. 7440-47-3 (mg/L)
MW-10 filtered	2B	490
Rep. Limit		0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Analyzed: 11/11/91
Date Reported: 11/22/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20667
AELC ID No.: L7689
Batch No.: 53168
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Cr (Chromium)	7440-47-3	ND	0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Digested: 11/08/91
Date Analyzed: 11/11/91
Date Reported: 11/22/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20667
AELC ID No.: L7689
Batch No.: 53168
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	107

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	110

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cr (Chromium)	7440-47-3	3

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Reported: 11/22/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20667
AELC ID No.: L7689
Batch No.: 53168
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	110

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Sampled: 11/07/91
Date Received: 11/08/91
Date Prepared: N/A
Date Analyzed: 11/13/91
Date Reported: 11/22/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20667
AELC ID No.: L7689
Batch No.: 53194
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Hexavalent Chromium (mg/L)
MW-10 filtered	2A	450
Rep. Limit		0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Analyzed: 11/13/91
Date Reported: 11/22/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20667
AELC ID No.: L7689
Batch No.: 53194
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Hexavalent Chromium	N/A	ND	0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Prepared: N/A
Date Analyzed: 11/13/91
Date Reported: 11/22/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20667
AELC ID No.: L7689
Batch No.: 53194
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Hexavalent Chromium	N/A	0.20	101

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Hexavalent Chromium	N/A	0.20	101

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Hexavalent Chromium	N/A	0

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Reported: 11/22/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20667
AELC ID No.: L7689
Batch No.: 53194
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Hexavalent Chromium	N/A	0.20	102

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Sampled: 11/07/91
Date Received: 11/08/91
Date Extracted: 11/14/91
Date Analyzed: 11/14/91
Date Reported: 11/20/91
Client ID No.: MW-10

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20667
AELC ID No.: L7689-1A
Batch No.: 8313
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	1000	102

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	50
Bromoform	75-25-2	ND	100
Bromomethane	74-83-9	ND	100
Carbon tetrachloride	56-23-5	ND	50
Chlorobenzene	108-90-7	ND	50
Chloroethane	75-00-3	ND	100
2-Chloroethyl vinyl ether	110-75-8	ND	100
Chloroform	67-66-3	ND	50
Chloromethane	74-87-3	ND	100
Dibromochloromethane	124-48-1	ND	50
Dibromomethane	74-95-3	ND	50
1,2-Dichlorobenzene	95-50-1	ND	50
1,3-Dichlorobenzene	541-73-1	ND	50
1,4-Dichlorobenzene	106-46-7	ND	50
Dichlorodifluoromethane	75-71-8	ND	100
1,1-Dichloroethane	75-34-3	ND	50
1,2-Dichloroethane	107-06-2	ND	50
1,1-Dichloroethene	75-35-4	3800	50
1,2-Dichloroethene, total	540-59-0	640	50
1,2-Dichloropropane	78-87-5	ND	50
cis-1,3-Dichloropropene	10061-01-5	ND	50
trans-1,3-Dichloropropene	10061-02-6	ND	50
Methylene chloride	75-09-2	ND	50
1,1,2,2-Tetrachloroethane	79-34-5	ND	50
Tetrachloroethene	127-18-4	ND	50
1,1,1-Trichloroethane	71-55-6	6500	50
1,1,2-Trichloroethane	79-00-5	ND	50
Trichloroethene	79-01-6	14000	50
Trichlorofluoromethane	75-69-4	ND	50
1,1,2-Trichlorotrifluorethane	76-13-1	ND	50
Vinyl chloride	75-01-4	ND	100

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Analyzed: 11/14/91
Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20667
AELC ID No.: L7689
Batch No.: 8313
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	106

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Extracted: 11/14/91
Date Analyzed: 11/14/91
Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20667
AELC ID No.: L7689
Batch No.: 8313
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/L)	MS Recovery (percent)
Chlorobenzene	108-90-7	20	98
1,1-Dichloroethene	75-35-4	20	91
Trichloroethene	79-01-6	20	97

MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/L)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	106

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/L)	MSD Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	89
Trichloroethene	79-01-6	20	97

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Chlorobenzene	108-90-7	4
1,1-Dichloroethene	75-35-4	2
Trichloroethene	79-01-6	0

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc,
Emeryville

Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 20667
AELC ID No.: L7689
Batch No.: 8313
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	96
Trichloroethene	79-01-6	20	98

AMERICAN ENVIRONMENTAL MANAGEMENT CORP.

CHAIN OF CUSTODY

LOG NO. 20667

CLIENT NAME: Electro Coatings Inc. - Emeryville
ADDRESS:

PROJECT NAME: ECI
PROJECT MANAGER: Riesig PHONE #: 4056
SAMPLED BY: Riesig / Traylor
JOB DESCRIPTION: MW sampling
SITE LOCATION:

CLIENT JOB NUMBER: 83210

DESTINATION LABORATORY:
☒ AETC
3249 FITZGERALD RD.
RANCHO CORDOVA, CA.
95670
☐ OTHER

FIELD CONDITIONS:
COMPOSITE:
SPECIAL INSTRUCTIONS: Filter & Preserve Samples Immed.

DATE	TIME	SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE METHOD	SAMPLE TYPE	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	ANALYSIS REQUESTED: Total Cr	Hex Cr	EPA method 6010
11/7/91	—	MW-10	—	—	H_2O	2	VOA's	3	/	/	/
						1	Poly				

TURN AROUND TIME: 24 HOURS | 48 HOURS | 1 WEEK | 2 WEEKS — / (2 WEEKS)

NOTE / FIELD READINGS:

SUSPECTED CONSTITUENTS: Chrome

SAMPLE RETENTION TIME:

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME	REMARKS
John D. [illegible]	11/8/91 - 0800	Oscar Chavez (OSCAR CHAVEZ)	11-8-91 0900	

PRESERVATIVES:
(1) HCL
(2) HNO_3
(3) = COLD
(4)

LAB TO SEND RESULTS TO:
Riesig ORIGINAL
Riesig COPY

SHIPPED VIA: ☐ FED X ☐ UPS ☐ OTHER
AIRBILL #

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

11/22/91

Attn : Mark Reisig

Re: *Project :* Electro Coatings-Emeryville
Project No. : 83210
*Chain of Custody number :*50016
Date Samples Received : 11/04/91 *Job No.:* 83210
No. Samples Received : 2 *AELC Lab No. :* L7663

These samples were received by American Environmental Laboratories in a chilled, intact state, and accompanied by valid chain of custody documentation.

The following analyses were performed on the above referenced project:

No. of Samples	*Analysis*
2	Chromium by EPA Method 6010
2	TTLC Acid Digestion
3	Chrome VI Analysis
2	Halogenated Volatiles by EPA Method 601

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

George Hampton

Laboratory Director

3249 Fitzgerald Road • Rancho Cordova, CA 95742 • Fax (916) 638-4510 • (916) 638-7301

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Sampled: 11/04/91
Date Received: 11/04/91
Date Digested: 11/05/91
Date Analyzed: 11/06/91
Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663
Batch No.: 53150
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Cr (Chromium) CAS No. 7440-47-3 (mg/L)
MW-4 filtered	2B	22
MW-5	3C	260
Rep. Limit		0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Analyzed: 11/06/91
Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663
Batch No.: 53150
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Cr (Chromium)	7440-47-3	ND	0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Digested: 11/05/91
Date Analyzed: 11/06/91
Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663
Batch No.: 53150
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	97

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	93

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cr (Chromium)	7440-47-3	4

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Reported: 11/21/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663
Batch No.: 53150
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	102

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Sampled: 11/04/91
Date Received: 11/04/91
Date Prepared: N/A
Date Analyzed: 11/04/91
Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663
Batch No.: 53149
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Hexavalent Chromium (mg/L)
MW-4	1B	22
MW-4 filtered	2A	22
MW-5	3B	250
Rep. Limit		0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Analyzed: 11/04/91
Date Reported: 11/19/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663
Batch No.: 53149
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Hexavalent Chromium	N/A	ND	0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Prepared: N/A
Date Analyzed: 11/04/91
Date Reported: 11/19/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663
Batch No.: 53149
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Hexavalent Chromium	N/A	0.20	102

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Hexavalent Chromium	N/A	0.20	102

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Hexavalent Chromium	N/A	0

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: **Hexavalent Chromium Analysis, EPA Method 7196**

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Reported: 11/19/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663
Batch No.: 53149
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Hexavalent Chromium	N/A	0.20	102

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Sampled: 11/04/91
Date Received: 11/05/91
Date Extracted: 11/05/91
Date Analyzed: 11/05/91
Date Reported: 11/15/91
Client ID No.: MW-4

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663-1A
Batch No.: 8274
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	93

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	5
Bromoform	75-25-2	ND	10
Bromomethane	74-83-9	ND	10
Carbon tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl vinyl ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
Dibromomethane	74-95-3	ND	5
1,2-Dichlorobenzene	95-50-1	5	5
1,3-Dichlorobenzene	541-73-1	ND	5
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	10
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
1,2-Dichloroethene, total	540-59-0	260	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Methylene chloride	75-09-2	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	31	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	2100	5
Trichlorofluoromethane	75-69-4	ND	5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	5
Vinyl chloride	75-01-4	10	10

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Sampled: 11/04/91
Date Received: 11/05/91
Date Extracted: 11/05/91
Date Analyzed: 11/05/91
Date Reported: 11/15/91
Client ID No.: MW-5

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663-3A
Batch No.: 8274
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	94

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	42	0.5
1,2-Dichloroethane	107-06-2	3.4	0.5
1,1-Dichloroethene	75-35-4	4.2	0.5
1,2-Dichloroethene, total	540-59-0	120	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	8.9	0.5
1,1,1-Trichloroethane	71-55-6	1.3	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	410	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	54	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Analyzed: 11/05/91
Date Reported: 11/15/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663
Batch No.: 8274
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	93

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Analyzed: 11/05/91
Date Reported: 11/15/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663
Batch No.: 8274
Matrix: WATER

MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/L)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	95

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/L)	MS Recovery (percent)
Chlorobenzene	108-90-7	10	85
1,1-Dichloroethene	75-35-4	10	78
Trichloroethene	79-01-6	10	85

MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/L)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	90

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/L)	MSD Recovery (percent)
Chlorobenzene	108-90-7	10	89
1,1-Dichloroethene	75-35-4	10	84
Trichloroethene	79-01-6	10	91

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Chlorobenzene	108-90-7	5
1,1-Dichloroethene	75-35-4	7
Trichloroethene	79-01-6	7

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings-Emeryville

Date Reported: 11/15/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50016
AELC ID No.: L7663
Batch No.: 8274
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	96
Trichloroethene	79-01-6	20	98

AMERICAN ENVIRONMENTAL MANAGEMENT CORP.

CHAIN OF CUSTODY

LOG NO. 50016

CLIENT NAME: Electro Coatings - Emeryville
ADDRESS: (EC-E)

PROJECT NAME: Electro Coating Emeryville
PROJECT MANAGER: Reisig PHONE #: 4056
SAMPLED BY: Reisig / Traylor
JOB DESCRIPTION: Water Sampling

SITE LOCATION: Emeryville

CLIENT JOB NUMBER: 5210

DESTINATION LABORATORY:
- [x] AETC 3249 FITZGERALD RD. RANCHO CORDOVA, CA 95670
- [ ] OTHER

PRESERVATIVES

ANALYSIS REQUESTED: Total Chrome; Hex Chrome; EPA Method 601

FIELD CONDITIONS:

COMPOSITE:

SPECIAL INSTRUCTIONS: MW-4 Filter only 1 (one) of the 1000 ml jars

TURN AROUND TIME: 24 HOURS; 48 HOURS; 1 WEEK; 2 WEEKS

NOTE / FIELD READINGS

DATE	TIME	IDENTIFICATION	SAMPLE DEPTH	SAMPLE METHOD	SAMPLE TYPE	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Total Chrome	Hex Chrome	EPA Method 601	24 HOURS	48 HOURS	1 WEEK	2 WEEKS	NOTE / FIELD READINGS
11/4/91	-	MW-4	-	-	water	4	2 VOA 2 poly	3	✓	✓	✓				✓	
11/4/91	-	MW-5	-	-	water	3	2 VOA 1 poly	3	✓	✓	✓				✓	

SUSPECTED CONSTITUENTS:

SAMPLE RETENTION TIME:

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	REMARKS
John D. [illegible]	11/4/91-1234	[illegible]	11/4/91 17:35	rec'd cold, intact

PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4)

LAB TO SEND RESULTS TO: Reisig ORIGINAL COPY

SHIPP[illegible] [ ] FED X [ ] UPS [ ] OTH[illegible] AIRBILL#

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

11/20/91

Attn : Mark Reisig

Re: *Project :* Electro Coatings Inc., Emeryville
Project No. : 83210
*Chain of Custody number :*30354
Date Samples Received : 11/05/91 *Job No.:* 83210
No. Samples Received : 2 *AELC Lab No. :* L7669

These samples were received by American Environmental Laboratories in a chilled, intact state, and accompanied by valid chain of custody documentation.

The following analyses were performed on the above referenced project:

No. of Samples	*Analysis*
2	Chromium by EPA Method 6010
2	TTLC Acid Digestion
2	Chrome VI Analysis
2	Halogenated Volatiles by EPA Method 601

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

George Hampton

Laboratory Director

3249 Fitzgerald Road • Rancho Cordova, CA 95742 • Fax (916) 638-4510 • (916) 638-7301

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Sampled: 11/05/91
Date Received: 11/05/91
Date Digested: 11/08/91
Date Analyzed: 11/11/91
Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669
Batch No.: 53168
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Cr (Chromium) CAS No. 7440-47-3 (mg/L)
MW-6 filtered	2B	31
MW-8 filtered	4B	ND
Rep. Limit		0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Analyzed: 11/11/91
Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669
Batch No.: 53168
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Cr (Chromium)	7440-47-3	ND	0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Digested: 11/08/91
Date Analyzed: 11/11/91
Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669
Batch No.: 53168
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	107

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	110

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cr (Chromium)	7440-47-3	3

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669
Batch No.: 53168
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	110

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Sampled: 11/05/91
Date Received: 11/05/91
Date Prepared: N/A
Date Analyzed: 11/05/91
Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669
Batch No.: 53152
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Hexavalent Chromium (mg/L)
MW-6 filtered	2A	25
MW-8 filtered	4A	ND
Rep. Limit		0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Analyzed: 11/05/91
Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669
Batch No.: 53152
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Hexavalent Chromium	N/A	ND	0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Prepared: N/A
Date Analyzed: 11/05/91
Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669
Batch No.: 53152
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Hexavalent Chromium	N/A	0.20	99

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Hexavalent Chromium	N/A	0.20	97

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Hexavalent Chromium	N/A	2

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Reported: 11/20/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669
Batch No.: 53152
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Hexavalent Chromium	N/A	0.20	96

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Sampled: 11/05/91
Date Received: 11/05/91
Date Extracted: 11/14/91
Date Analyzed: 11/14/91
Date Reported: 11/19/91
Client ID No.: MW-6

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669-1A
Batch No.: 8313
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	104

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	5.0	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	2.7	0.5
1,1-Dichloroethene	75-35-4	29	0.5
1,2-Dichloroethene, total	540-59-0	78	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	5.9	0.5
1,1,1-Trichloroethane	71-55-6	6.4	0.5
1,1,2-Trichloroethane	79-00-5	0.8	0.5
Trichloroethene	79-01-6	420	0.5
Trichlorofluoromethane	75-69-4	2.0	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	19	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Sampled: 11/05/91
Date Received: 11/05/91
Date Extracted: 11/14/91
Date Analyzed: 11/14/91
Date Reported: 11/19/91
Client ID No.: MW-8

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669-3A
Batch No.: 8313
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	106

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	1.8	0.5
1,2-Dichloroethane	107-06-2	5.9	0.5
1,1-Dichloroethene	75-35-4	0.8	0.5
1,2-Dichloroethene, total	540-59-0	23	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	35	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	38	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	4.9	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Analyzed: 11/14/91
Date Reported: 11/19/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669
Batch No.: 8313
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	113

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Analyzed: 11/14/91
Date Reported: 11/19/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669
Batch No.: 8313
Matrix: WATER

MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/L)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	106

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/L)	MS Recovery (percent)
Chlorobenzene	108-90-7	20	98
1,1-Dichloroethene	75-35-4	20	91
Trichloroethene	79-01-6	20	97

MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/L)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	106

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/L)	MSD Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	89
Trichloroethene	79-01-6	20	97

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Chlorobenzene	108-90-7	4
1,1-Dichloroethene	75-35-4	2
Trichloroethene	79-01-6	0

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings Inc.,
Emeryville

Date Reported: 11/19/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 30354
AELC ID No.: L7669
Batch No.: 8313
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	96
Trichloroethene	79-01-6	20	98

AMERICAN ENVIRONMENTAL LABORATORIES CORP.

CHAIN OF CUSTODY

LOG NO. 30354

CLIENT NAME: Electro Coatings Inc. Emeryville
ADDRESS:

PROJECT NAME: ECI
PROJECT MANAGER: Reisig — PHONE #: 4056
SAMPLED BY: Reisig / Traylor
JOB DESCRIPTION:

SITE LOCATION:

CLIENT JOB NUMBER: 83210

DESTINATION LABORATORY:
- [X] AELC, 3249 FITZGERALD RD., RANCHO CORDOVA, CA. 95742
- [ ] OTHER

FIELD CONDITIONS:

COMPOSITE:

SPECIAL INSTRUCTIONS: Filter & Preserve all samples

DATE	TIME	SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE METHOD	SAMPLE TYPE	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	ANALYSIS REQUESTED: Total Cr	ANALYSIS REQUESTED: Hex Cr	ANALYSIS REQUESTED: EPA Method 601	TURN AROUND TIME: 24 HOURS	TURN AROUND TIME: 48 HOURS	TURN AROUND TIME: 1 WEEK	TURN AROUND TIME: 2 WEEKS	NOTE / FIELD READINGS
11/5/91	—	MW-6	—	—	H_2O	3	2 VOAs 1 Poly	3	/	/	/				/	
11/5/91	—	MW-8	—	—	H_2O	3	Same	3	/	/	/				/	

SUSPECTED CONSTITUENTS: Cr

SAMPLE RETENTION TIME:

PRESERVATIVES: (1) HCL (2) HNO_3 (3) COLD (4)

RELINQUISHED BY (SIGN)	PRINT NAME/COMPANY	DATE/TIME	REC'D BY (SIGN)	PRINT NAME/COMPANY
John D. [illegible]	John Traylor AEMC	11/5/91 - 1835	Amy E Bowser	Amy E Bowser / AELC

REC'D AT LAB BY: | DATE/TIME: | CONDITIONS/COMMENTS:

SHIPPED: [ ] FED X [ ] UPS [ ] OTHER — AIRBILL #

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

12/06/91

Attn : Mark Reisig

Re: *Project :* Electro-Coating -- Emeryville
Project No. : 83210
*Chain of Custody number :*30395
Date Samples Received : 11/19/91 *Job No.:* 83210
No. Samples Received : 4 *AELC Lab No. :* L7748

These samples were received by American Environmental Laboratories in a chilled, intact state, and accompanied by valid chain of custody documentation.

The following analyses were performed on the above referenced project:

No. of Samples	*Analysis*
4	Chromium by EPA Method 6010
4	Chrome VI Analysis
4	Halogenated Volatiles by EPA Method 601

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

George Hampton

Laboratory Director

3249 Fitzgerald Road • Rancho Cordova, CA 95742 • Fax (916) 638-4510 • (916) 638-7301

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Sampled: 11/19/91
Date Received: 11/19/91
Date Digested: 11/20/91
Date Analyzed: 11/20/91
Date Reported: 11/27/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748
Batch No.: 53223
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Cr (Chromium) CAS No. 7440-47-3 (mg/L)
MW-16 filtered	2B	240
MW-17 filtered	4B	250
MW-18 filtered	6B	31
MW-18A filtered	8B	ND
Rep. Limit		0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Analyzed: 11/20/91
Date Reported: 11/27/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748
Batch No.: 53223
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Cr (Chromium)	7440-47-3	ND	0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Digested: 11/20/91
Date Analyzed: 11/20/91
Date Reported: 11/27/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748
Batch No.: 53223
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	93

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	88

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cr (Chromium)	7440-47-3	6

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Reported: 11/27/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748
Batch No.: 53223
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	99

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Sampled: 11/19/91
Date Received: 11/19/91
Date Prepared: N/A
Date Analyzed: 12/03/91
Date Reported: 12/05/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748
Batch No.: 53268
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Hexavalent Chromium (mg/L)
MW-16 filtered	2A	290
MW-17 filtered	4A	300
MW-18 filtered	6A	24
MW-18A filtered	8A	ND
Rep. Limit		0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Analyzed: 12/03/91
Date Reported: 12/05/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748
Batch No.: 53268
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Hexavalent Chromium	N/A	ND	0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Prepared: N/A
Date Analyzed: 12/03/91
Date Reported: 12/05/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748
Batch No.: 53268
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Hexavalent Chromium	N/A	0.20	109

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Hexavalent Chromium	N/A	0.20	104

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Hexavalent Chromium	N/A	5

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium Analysis, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Reported: 12/05/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748
Batch No.: 53268
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Hexavalent Chromium	N/A	0.20	106

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Sampled: 11/19/91
Date Received: 11/19/91
Date Extracted: 12/02/91
Date Analyzed: 12/02/91
Date Reported: 12/04/91
Client ID No.: MW-16

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748-1A
Batch No.: 8375
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	98

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	5.0
Bromoform	75-25-2	ND	10
Bromomethane	74-83-9	ND	10
Carbon tetrachloride	56-23-5	ND	5.0
Chlorobenzene	108-90-7	ND	5.0
Chloroethane	75-00-3	ND	10
2-Chloroethyl vinyl ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5.0
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5.0
Dibromomethane	74-95-3	ND	5.0
1,2-Dichlorobenzene	95-50-1	ND	5.0
1,3-Dichlorobenzene	541-73-1	ND	5.0
1,4-Dichlorobenzene	106-46-7	ND	5.0
Dichlorodifluoromethane	75-71-8	ND	10
1,1-Dichloroethane	75-34-3	ND	5.0
1,2-Dichloroethane	107-06-2	ND	5.0
1,1-Dichloroethene	75-35-4	1200	5.0
1,2-Dichloroethene, total	540-59-0	2200	5.0
1,2-Dichloropropane	78-87-5	ND	5.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0
Methylene chloride	75-09-2	ND	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0
Tetrachloroethene	127-18-4	ND	5.0
1,1,1-Trichloroethane	71-55-6	1300	5.0
1,1,2-Trichloroethane	79-00-5	ND	5.0
Trichloroethene	79-01-6	19000	5.0
Trichlorofluoromethane	75-69-4	ND	5.0
1,1,2-Trichlorotrifluorethane	76-13-1	ND	5.0
Vinyl chloride	75-01-4	420	10

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

Project: Electro-Coating -- Emeryville

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748-3A
Batch No.: 8375
Matrix: WATER

Date Sampled: 11/19/91
Date Received: 11/19/91
Date Extracted: 12/02/91
Date Analyzed: 12/02/91
Date Reported: 12/05/91
Client ID No.: MW-17

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	104

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	5.0
Bromoform	75-25-2	ND	10
Bromomethane	74-83-9	ND	10
Carbon tetrachloride	56-23-5	ND	5.0
Chlorobenzene	108-90-7	34	5.0
Chloroethane	75-00-3	ND	10
2-Chloroethyl vinyl ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5.0
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5.0
Dibromomethane	74-95-3	ND	5.0
1,2-Dichlorobenzene	95-50-1	33	5.0
1,3-Dichlorobenzene	541-73-1	ND	5.0
1,4-Dichlorobenzene	106-46-7	ND	5.0
Dichlorodifluoromethane	75-71-8	ND	10
1,1-Dichloroethane	75-34-3	7.8	5.0
1,2-Dichloroethane	107-06-2	ND	5.0
1,1-Dichloroethene	75-35-4	54	5.0
1,2-Dichloroethene, total	540-59-0	54	5.0
1,2-Dichloropropane	78-87-5	ND	5.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0
Methylene chloride	75-09-2	ND	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0
Tetrachloroethene	127-18-4	8.9	5.0
1,1,1-Trichloroethane	71-55-6	30	5.0
1,1,2-Trichloroethane	79-00-5	ND	5.0
Trichloroethene	79-01-6	460	5.0
Trichlorofluoromethane	75-69-4	ND	5.0
1,1,2-Trichlorotrifluorethane	76-13-1	ND	5.0
Vinyl chloride	75-01-4	10	10

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Sampled: 11/19/91
Date Received: 11/19/91
Date Extracted: 12/02/91
Date Analyzed: 12/02/91
Date Reported: 12/04/91
Client ID No.: MW-18

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748-5A
Batch No.: 8375
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	100

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	5.0
Bromoform	75-25-2	ND	10
Bromomethane	74-83-9	ND	10
Carbon tetrachloride	56-23-5	ND	5.0
Chlorobenzene	108-90-7	ND	5.0
Chloroethane	75-00-3	ND	10
2-Chloroethyl vinyl ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5.0
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5.0
Dibromomethane	74-95-3	ND	5.0
1,2-Dichlorobenzene	95-50-1	ND	5.0
1,3-Dichlorobenzene	541-73-1	ND	5.0
1,4-Dichlorobenzene	106-46-7	ND	5.0
Dichlorodifluoromethane	75-71-8	ND	10
1,1-Dichloroethane	75-34-3	ND	5.0
1,2-Dichloroethane	107-06-2	ND	5.0
1,1-Dichloroethene	75-35-4	ND	5.0
1,2-Dichloroethene, total	540-59-0	160	5.0
1,2-Dichloropropane	78-87-5	ND	5.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0
Methylene chloride	75-09-2	ND	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0
Tetrachloroethene	127-18-4	11	5.0
1,1,1-Trichloroethane	71-55-6	23	5.0
1,1,2-Trichloroethane	79-00-5	ND	5.0
Trichloroethene	79-01-6	560	5.0
Trichlorofluoromethane	75-69-4	ND	5.0
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	5.0
Vinyl chloride	75-01-4	30	10

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Sampled: 11/19/91
Date Received: 11/19/91
Date Extracted: 12/02/91
Date Analyzed: 12/02/91
Date Reported: 12/04/91
Client ID No.: MW-18A

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748-7A
Batch No.: 8375
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	103

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Analyzed: 12/02/91
Date Reported: 12/04/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748
Batch No.: 8375
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	95

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Analyzed: 12/02/91
Date Reported: 12/04/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748
Batch No.: 8375
Matrix: WATER

MB SPIKE SURROGATE

Analyte	CAS No.	MBS Surr. Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	105

MB SPIKE

Analyte	CAS No.	MBS Conc. (ug/L)	MBS Recovery (percent)
Chlorobenzene	108-90-7	20	97
1,1-Dichloroethene	75-35-4	20	81
Trichloroethene	79-01-6	20	89

MB SPIKE DUPLICATE SURR.

Analyte	CAS No.	MBSD Surr. Conc. (ug/L)	MBSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	96

MB SPIKE DUPLICATE

Analyte	CAS No.	MBSD Conc. (ug/L)	MBSD Recovery (percent)
Chlorobenzene	108-90-7	20	98
1,1-Dichloroethene	75-35-4	20	89
Trichloroethene	79-01-6	20	83

MB SPIKE RPD

Analyte	CAS No.	MBS Relative Percent Difference (percent)
Chlorobenzene	108-90-7	1
1,1-Dichloroethene	75-35-4	9
Trichloroethene	79-01-6	7

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coating -- Emeryville

Date Reported: 12/04/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30395
AELC ID No.: L7748
Batch No.: 8375
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	96
Trichloroethene	79-01-6	20	98

AMERICAN
ENVIRONMENTAL LABORATORIES CORP

CHAIN OF CUSTODY

L7748
LOG NO. 30395

CLIENT NAME: Electro Coatings - Emeryville
ADDRESS: (EC-E)

PROJECT NAME: Electro Coating - Emeryville
PROJECT MANAGER: Mark Reisig PHONE #: 4056
SAMPLED BY: Mark R Reisig
JOB DESCRIPTION: Water Sampling
SITE LOCATION: Emeryville

CLIENT JOB NUMBER: 83210

DESTINATION LABORATORY:
- [x] AELC 3249 FITZGERALD RD. RANCHO CORDOVA, CA. 95742
- [ ] OTHER

FIELD CONDITIONS:

COMPOSITE:

SPECIAL INSTRUCTIONS:

	DATE	TIME	SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE METHOD	SAMPLE TYPE	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	ANALYSIS REQUESTED: EP-601	Total Chrome	Hex Chrome	TURN AROUND TIME: 24 HOURS	48 HOURS	1 WEEK	2 WEEKS	NOTE / FIELD READINGS
1	11/19/91	-	MW-16	-	-	water	2	VOA	3	✓						✓	
2	11/19/91	-	MW-16 Filt	-	-	water	1	poly	3		✓	✓				✓	Filter & Preserve
3	11/19/91	-	MW-17	-	-	water	2	VOA	3	✓						✓	
4	11/19/91	-	MW-17 Filt	-	-	water	1	poly	3		✓	✓				✓	Filter & Preserve
5	11/19/91	-	MW-18	-	-	water	2	VOA	3	✓						✓	
6	11/19/91	-	MW-18 Filt	-	-	water	1	poly	3		✓	✓				✓	Filter & Preserve
7	11/19/91	-	MW-18A	-	-	water	2	VOA	3	✓						✓	
8	11/19/91	-	MW-18A Filt	-	-	water	1	poly	3		✓	✓				✓	Filter & Preserve

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4)

RELINQUISHED BY (SIGN)	PRINT NAME/COMPANY	DATE/TIME	REC'D BY (SIGN)	PRINT NAME/COMPANY
Mark R. Reisig	AEMC	11/19/91 350pm		NATHAN PHILLIPS / AELC

REC'D AT LAB BY: DATE/TIME: CONDITIONS/COMMENTS:

SHIP VIA: [ ] FED X [ ] UPS [x] OTHER: CLIENT AIRBILL #

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

11/25/91

Attn : Mark Reisig

Re: *Project :* Electro Coatings - Emeryville
Project No. : 83210
*Chain of Custody number :*50017
Date Samples Received : 11/12/91 *Job No.:* 83210
No. Samples Received : 1 *AELC Lab No. :* L7707

These samples were received by American Environmental Laboratories in a chilled, intact state, and accompanied by valid chain of custody documentation.

The following analyses were performed on the above referenced project:

No. of Samples	*Analysis*
1	Chromium by EPA Method 6010
1	Chrome VI Analysis
1	Halogenated Volatiles by EPA Method 601

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

George Hampton

Laboratory Director

3249 Fitzgerald Road • Rancho Cordova, CA 95742 • Fax (916) 638-4510 • (916) 638-7301

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Sampled: 11/12/91
Date Received: 11/12/91
Date Digested: 11/13/91
Date Analyzed: 11/13/91
Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707
Batch No.: 53191
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Cr (Chromium) CAS No. 7440-47-3 (mg/L)
MW-15 filtered	2B	ND
Rep. Limit		0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Analyzed: 11/13/91
Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707
Batch No.: 53191
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Cr (Chromium)	7440-47-3	ND	0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Digested: 11/13/91
Date Analyzed: 11/13/91
Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707
Batch No.: 53191
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	108

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	99

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cr (Chromium)	7440-47-3	9

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707
Batch No.: 53191
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	105

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Sampled: 11/12/91
Date Received: 11/12/91
Date Prepared: N/A
Date Analyzed: 11/12/91
Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707
Batch No.: 53139
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Hexavalent Chromium (mg/L)
MW-15 filtered	2A	ND
Rep. Limit		0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Analyzed: 11/12/91
Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707
Batch No.: 53139
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Hexavalent Chromium	N/A	ND	0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Prepared: N/A
Date Analyzed: 11/12/91
Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707
Batch No.: 53139
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Hexavalent Chromium	N/A	0.20	106

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Hexavalent Chromium	N/A	0.20	104

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Hexavalent Chromium	N/A	2

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707
Batch No.: 53139
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Hexavalent Chromium	N/A	0.20	106

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Sampled: 11/12/91
Date Received: 11/12/91
Date Extracted: 11/19/91
Date Analyzed: 11/19/91
Date Reported: 11/25/91
Client ID No.: MW-15

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707-1A
Batch No.: 8338
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	101

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	5.0
Bromoform	75-25-2	ND	10
Bromomethane	74-83-9	ND	10
Carbon tetrachloride	56-23-5	ND	5.0
Chlorobenzene	108-90-7	ND	5.0
Chloroethane	75-00-3	ND	10
2-Chloroethyl vinyl ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5.0
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5.0
Dibromomethane	74-95-3	ND	5.0
1,2-Dichlorobenzene	95-50-1	ND	5.0
1,3-Dichlorobenzene	541-73-1	ND	5.0
1,4-Dichlorobenzene	106-46-7	ND	5.0
Dichlorodifluoromethane	75-71-8	ND	10
1,1-Dichloroethane	75-34-3	ND	5.0
1,2-Dichloroethane	107-06-2	ND	5.0
1,1-Dichloroethene	75-35-4	ND	5.0
1,2-Dichloroethene, total	540-59-0	220	5.0
1,2-Dichloropropane	78-87-5	ND	5.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0
Methylene chloride	75-09-2	ND	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0
Tetrachloroethene	127-18-4	ND	5.0
1,1,1-Trichloroethane	71-55-6	ND	5.0
1,1,2-Trichloroethane	79-00-5	ND	5.0
Trichloroethene	79-01-6	650	5.0
Trichlorofluoromethane	75-69-4	ND	5.0
1,1,2-Trichlorotrifluorethane	76-13-1	ND	5.0
Vinyl chloride	75-01-4	ND	10

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Analyzed: 11/19/91
Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707
Batch No.: 8338
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	96

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Analyzed: 11/19/91
Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707
Batch No.: 8338
Matrix: WATER

MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/L)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	105

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/L)	MS Recovery (percent)
Chlorobenzene	108-90-7	20	87
1,1-Dichloroethene	75-35-4	20	79
Trichloroethene	79-01-6	20	92

MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/L)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	103

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/L)	MSD Recovery (percent)
Chlorobenzene	108-90-7	20	91
1,1-Dichloroethene	75-35-4	20	78
Trichloroethene	79-01-6	20	97

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Chlorobenzene	108-90-7	4
1,1-Dichloroethene	75-35-4	1
Trichloroethene	79-01-6	5

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro Coatings - Emeryville

Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 50017
AELC ID No.: L7707
Batch No.: 8338
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	96
Trichloroethene	79-01-6	20	98

AMERICAN ENVIRONMENTAL MANAGEMENT CORP.

CHAIN OF CUSTODY

L7707
LOG NO. 50017

CLIENT NAME: Electro Coatings - Emeryville
ADDRESS:
PROJECT NAME: Electro Coating - Emeryville
PROJECT MANAGER: Mark R Reisig PHONE # 4056
SAMPLED BY: Mark Reisig / Greg Pope
JOB DESCRIPTION: Water Sampling
SITE LOCATION: Emeryville

CLIENT JOB NUMBER: 8320

DESTINATION LABORATORY:
- [x] AETC 3249 FITZGERALD RD. RANCHO CORDOVA, CA 95670
- [ ] OTHER

DATE	TIME	SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE METHOD	CONTAINER TYPE	CONTAINER NO	CONTAINER TYPE	PRESERVATIVES	ANALYSIS REQUESTED: Total Chrome	Hex Chrome	Epa 601	TURN AROUND TIME: 24 HOURS	48 HOURS	1 WEEK	2 WEEKS	NOTE / FIELD READINGS
11/12/91	-	MW-15	-	-	water	3	2 voa 1 pint	3	✓	✓	✓				✓	

FIELD CONDITIONS:

COMPOSITE:

SPECIAL INSTRUCTIONS: Filter and preserve

SUSPECTED CONSTITUENTS:

SAMPLE RETENTION TIME:

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	REMARKS
[signature]	11-12-91/7:30PM	[signature]	11-12-91/7:35PM	REC'D COLD, INTACT

PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4)

LAB TO SEND RESULTS TO: Reisig ORIGINAL COPY

SHIPPED VIA: [ ] FED X [ ] UPS [x] OTHER CLIENT AIRBILL #

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

11/15/91

Attn : Mark Reisig

Re: *Project :* Electro-Coatings
Project No. : 83210
Chain of Custody number : 50015
Date Samples Received : 10/30/91 *Job No.:* 83210
No. Samples Received : 1 *AELC Lab No. :* L7634

These samples were received by American Environmental Laboratories in a chilled, intact state, and accompanied by valid chain of custody documentation.

The following analyses were performed on the above referenced project:

No. of Samples	*Analysis*
1	Chromium by EPA Method 6010
1	Chrome VI Analysis
1	Halogenated Volatiles by EPA Method 601

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

George Hampton

Laboratory Director

3249 Fitzgerald Road • Rancho Cordova, CA 95742 • Fax (916) 638-4510 • (916) 638-7301

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Sampled: 10/30/91
Date Received: 10/30/91
Date Digested: 11/05/91
Date Analyzed: 11/06/91
Date Reported: 11/14/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 53131
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Cr (Chromium) CAS No. 7440-47-3 (mg/L)
MW-9	1A	140
Rep. Limit		0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation.
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Analyzed: 11/06/91
Date Reported: 11/14/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 53131
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Cr (Chromium)	7440-47-3	ND	0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Digested: 11/05/91
Date Analyzed: 11/06/91
Date Reported: 11/14/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 53131
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	97

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	93

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cr (Chromium)	7440-47-3	4

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Reported: 11/14/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 53131
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	102

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Sampled: 10/30/91
Date Received: 10/30/91
Date Prepared: N/A
Date Analyzed: 10/30/91
Date Reported: 11/14/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 53136
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Hexavalent Chromium (mg/L)
MW-9	1A	130
Rep. Limit		0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Analyzed: 10/30/91
Date Reported: 11/14/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 53136
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Hexavalent Chromium	N/A	ND	0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Prepared: N/A
Date Analyzed: 10/30/91
Date Reported: 11/14/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 53136
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Hexavalent Chromium	N/A	0.20	101

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Hexavalent Chromium	N/A	0.20	103

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Hexavalent Chromium	N/A	2.0

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Reported: 11/14/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 53136
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Hexavalent Chromium	N/A	0.20	101

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Sampled: 10/30/91
Date Received: 10/30/91
Date Extracted: 10/31/91
Date Analyzed: 10/31/91
Date Reported: 11/08/91
Client ID No.: MW-9

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634-1B
Batch No.: 8254
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	100

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	1.3	0.5
1,2-Dichloroethane	107-06-2	2.4	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	13	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	11	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	200	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Analyzed: 10/31/91
Date Reported: 11/08/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 8254
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	96

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Analyzed: 10/31/91
Date Reported: 11/08/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 8254
Matrix: WATER

MB SPIKE SURROGATE

Analyte	CAS No.	MBS Surr. Conc. (ug/L)	Surrogace Recovery (percent)
o-Chlorotoluene	95-49-8	10	96

MB SPIKE

Analyte	CAS No.	MBS Conc. (ug/L)	MBS Recovery (percent)
Chlorobenzene	108-90-7	20	96
1,1-Dichloroethene	75-35-4	20	80
Trichloroethene	79-01-6	20	93

NR = Not reportable; see cover letter for explanation.

MB SPIKE DUPLICATE SURR.

Analyte	CAS No.	MBSD Surr. Conc. (ug/L)	MBSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	103

MB SPIKE DUPLICATE

Analyte	CAS No.	MBSD Conc. (ug/L)	MBSD Recovery (percent)
Chlorobenzene	108-90-7	20	96
1,1-Dichloroethene	75-35-4	20	85
Trichloroethene	79-01-6	20	97

NR = Not reportable; see cover letter for explanation.

MB SPIKE RPD

Analyte	CAS No.	MBS Relative Percent Difference (percent)

NR = Not reportable; see cover letter for explanation.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Analyzed: 10/31/91
Date Reported: 11/08/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 8254
Matrix: WATER

MB SPIKE RPD(CONT.)

Analyte	CAS No.	MBS Relative Percent Difference (percent)
Chlorobenzene	108-90-7	0
1,1-Dichloroethene	75-35-4	6
Trichloroethene	79-01-6	4

NR = Not reportable; see cover letter for explanation.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings

Date Reported: 11/08/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: George Hampton
Job No.: 83210
COC Log No.: 50015
AELC ID No.: L7634
Batch No.: 8254
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	96
Trichloroethene	79-01-6	20	98

L 1637

AMERICAN
ENVIRONMENTAL MANAGEMENT CORP.

CHAIN OF CUSTODY

LOG NO. 50015

CLIENT NAME: Electro-Coatings
ADDRESS:
PROJECT NAME: SAA
PROJECT MANAGER: M. Reisig
PHONE #:
SAMPLED BY: Reisig - Godinho
JOB DESCRIPTION:
SITE LOCATION: Emeryville CA

CLIENT JOB NUMBER: 83210

DESTINATION LABORATORY
- [X] AETC, 3249 FITZGERALD RD., RANCHO CORDOVA, CA 95670
- [ ] OTHER

ANALYSIS REQUESTED: Total Chrome; Hexchrome; 601

FIELD CONDITIONS: Cool 70°
COMPOSITE:
SPECIAL INSTRUCTIONS: Filter and preserve

DATE	TIME	SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE METHOD	SAMPLE TYPE	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Total Chrome	Hexchrome	601					TURN AROUND TIME: 24 HOURS	48 HOURS	1 WEEK	2 WEEKS	NOTE / FIELD READINGS
10-30-91		MW-9		Bailer	H_2O	3	2-VOA 1-liter	3	/	/	/								/	

SUSPECTED CONSTITUENTS:

SAMPLE RETENTION TIME:

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	REMARKS
Mike Godinho	10-30-91 7:14pm	Larry Kruez	10-30-91 7:14pm	Cold & intact

PRESERVATIVES: (1) HCL (2) HNO_3 (3) - COLD (4)

LAB TO SEND RESULTS TO: Reisig (ORIGINAL) / COPY

SHIP VIA: [ ] FED X [ ] UPS [ ] OTHER

AIRBILL #:

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

11/27/91

Attn : Mark Reisig

Re: *Project* : Electro-Coatings Emeryville
Project No. : 83210
Chain of Custody number :30392
Date Samples Received : 11/15/91 *Job No.*: 83210
No. Samples Received : 3 *AELC Lab No.* : L7729

These samples were received by American Environmental Laboratories in a chilled, intact state, and accompanied by valid chain of custody documentation.

The following analyses were performed on the above referenced project:

No. of Samples	*Analysis*
3	Chromium by EPA Method 6010
3	Chrome VI Analysis
3	Halogenated Volatiles by EPA Method 601

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

George Hampton

Laboratory Director

3249 Fitzgerald Road • Rancho Cordova, CA 95742 • Fax (916) 638-4510 • (916) 638-7301

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Sampled: 11/15/91
Date Received: 11/15/91
Date Extracted: 11/19/91
Date Analyzed: 11/19/91
Date Reported: 11/22/91
Client ID No.: MW-1

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729-2A
Batch No.: 8338
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	100

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	0.7	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	1.6	0.5
1,2-Dichloroethane	107-06-2	4.6	0.5
1,1-Dichloroethene	75-35-4	0.5	0.5
1,2-Dichloroethene, total	540-59-0	4.8	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	0.6	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	11	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Sampled: 11/15/91
Date Received: 11/15/91
Date Extracted: 11/19/91
Date Analyzed: 11/19/91
Date Reported: 11/22/91
Client ID No.: MW-11

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729-4A
Batch No.: 8338
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	102

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	3.1	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	1.5	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	10	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Sampled: 11/15/91
Date Received: 11/15/91
Date Extracted: 11/19/91
Date Analyzed: 11/19/91
Date Reported: 11/22/91
Client ID No.: MW-20

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729-6A
Batch No.: 8338
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	105

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Analyzed: 11/19/91
Date Reported: 11/22/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729
Batch No.: 8338
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	96

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Analyzed: 11/19/91
Date Reported: 11/22/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729
Batch No.: 8338
Matrix: WATER

MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/L)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	105

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/L)	MS Recovery (percent)
Chlorobenzene	108-90-7	20	87
1,1-Dichloroethene	75-35-4	20	79
Trichloroethene	79-01-6	20	92

MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/L)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	103

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/L)	MSD Recovery (percent)
Chlorobenzene	108-90-7	20	91
1,1-Dichloroethene	75-35-4	20	78
Trichloroethene	79-01-6	20	97

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Chlorobenzene	108-90-7	4
1,1-Dichloroethene	75-35-4	1
Trichloroethene	79-01-6	5

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Reported: 11/22/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729
Batch No.: 8338
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Chlorobenzene	108-90-7	20	94
1,1-Dichloroethene	75-35-4	20	96
Trichloroethene	79-01-6	20	98

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Sampled: 11/15/91
Date Received: 11/15/91
Date Digested: 11/19/91
Date Analyzed: 11/19/91
Date Reported: 11/27/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729
Batch No.: 53211
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Cr (Chromium) CAS No. 7440-47-3 (mg/L)
MW-1 filtered	1B	ND
MW-11 filtered	3B	0.47
MW-20 filtered	5B	ND
Rep. Limit		0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Analyzed: 11/19/91
Date Reported: 11/27/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729
Batch No.: 53211
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Cr (Chromium)	7440-47-3	ND	0.050

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Digested: 11/19/91
Date Analyzed: 11/19/91
Date Reported: 11/27/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729
Batch No.: 53211
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	81

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	86

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cr (Chromium)	7440-47-3	6

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Reported: 11/27/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729
Batch No.: 53211
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	96

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Sampled: 11/15/91
Date Received: 11/15/91
Date Prepared: N/A
Date Analyzed: 11/15/91
Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729
Batch No.: 53203
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Hexavalent Chromium (mg/L)
MW-1 filtered	1A	0.050
MW-11 filtered	3A	0.41
MW-20 filtered	5A	0.014
Rep. Limit		0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Analyzed: 11/15/91
Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729
Batch No.: 53203
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Hexavalent Chromium	N/A	ND	0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Prepared: N/A
Date Analyzed: 11/15/91
Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729
Batch No.: 53203
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Hexavalent Chromium	N/A	0.20	102

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Hexavalent Chromium	N/A	0.20	103

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Hexavalent Chromium	N/A	1

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC Lincoln Village
9719 Lincoln Village Dr. #501
Sacramento, CA 95827

Project: Electro-Coatings Emeryville

Date Reported: 11/25/91

Project No.: 83210
Contact: Mark Reisig
Phone: (916) 364-8872

AELC Contact: Mike Jaeger
Job No.: 83210
COC Log No.: 30392
AELC ID No.: L7729
Batch No.: 53203
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Hexavalent Chromium	N/A	0.20	102

AMERICAN ENVIRONMENTAL LABORATORIES CORP.

CHAIN OF CUSTODY

LOG NO. 30392

CLIENT NAME: Electro Coatings - Emeryv. (EC-E)

ADDRESS:

PROJECT NAME: Electro-Coatings Emeryv. Ic

PROJECT MANAGER: Mark R. Reising PHONE # 4056

SAMPLED BY: Mark R. Reising

JOB DESCRIPTION:

SITE LOCATION:

CLIENT JOB NUMBER: 83210

DESTINATION LABORATORY:

- [x] AELC, 3249 FITZGERALD RD., RANCHO CORDOVA, CA. 95742
- [ ] OTHER

FIELD CONDITIONS:

COMPOSITE:

SPECIAL INSTRUCTIONS:

DATE	TIME	SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE METHOD	CONTAINER TYPE	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Hex Chrome	Total Chrome	EPA 601	TURN AROUND TIME 24 HOURS	48 HOURS	1 WEEK	2 WEEKS	NOTE / FIELD READINGS
11/15/91	-	MW-1	-	-	water	1	1-pdl	3	✓	✓					✓	Filter + Preserve
11/15/91	-	MW-1	-	-	water	2	VOA	3			✓				✓	
11/15/91	-	MW-11	-	-	water	1	1pdl	3	✓	✓					✓	Filter + Preserve
11/15/91	-	MW-11	-	-	water	2	VOA	3			✓				✓	
11/15/91	-	MW-20	-	-	water	1	1pdl	3	✓	✓					✓	Filter + preserve
11/15/91	-	MW-20	-	-	water	2	VOA	3			✓					

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES: (1) HCL (2) HNO_3 (4)

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	REC'D BY (SIGN)	PRINT NAME / COMPANY
Mark R. Reising	AEMC	11/15/91 7:42		NATHAN PHILLIPS / AELC

REC'D AT LAB BY:

DATE / TIME:

CONDITIONS / COMMENTS:

SHIPP [ ] FED X [ ] UPS [x] OTH CLIENT AIRBILL #

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

11/11/91

Attn : MARK REISIG

Re: *Project :* ELECTRO-COATING, EMERYVILLE
Project No. : 83210
*Chain of Custody number :*50014
Date Samples Received : 10/29/91 *Job No.:* 83210
No. Samples Received : 3 *AELC Lab No. :* L7620

These samples were received by American Environmental Laboratories in a chilled, intact state, and accompanied by valid chain of custody documentation.

The following analyses were performed on the above referenced project:

No. of Samples	*Analysis*
3	Chromium by EPA Method 6010
3	Chrome VI Analysis
3	Halogenated Volatiles by EPA Method 601

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

George Hampton

Laboratory Director

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Sampled: 10/29/91
Date Received: 10/29/91
Date Digested: 10/30/91
Date Analyzed: 10/31/91
Date Reported: 11/08/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 53131
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Cr (Chromium) CAS No. 7440-47-3 (mg/L)
MW3A	1A	0.13
MW3B	2A	110
MW3C	3A	2.3
Rep. Limit		0.025

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Analyzed: 10/31/91
Date Reported: 11/08/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 53131
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Cr (Chromium)	7440-47-3	ND	0.025

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Digested: 10/30/91
Date Analyzed: 10/31/91
Date Reported: 11/08/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 53131
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Cr (Chromium)	7440-47-3	2.5	101

NR = Not reportable; see cover letter for explanation.

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Cr (Chromium)	7440-47-3	2.5	109

NR = Not reportable; see cover letter for explanation.

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cr (Chromium)	7440-47-3	8

NR = Not reportable; see cover letter for explanation

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Chromium, TTLC, EPA Method 6010

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Reported: 11/08/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 53131
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Cr (Chromium)	7440-47-3	0.50	101

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Sampled: 10/29/91
Date Received: 10/29/91
Date Prepared: N/A
Date Analyzed: 10/29/91
Date Reported: 11/14/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 53124
Matrix: WATER

ANALYTE

Sample I.D. Client	AELC	Hexavalent Chromium (mg/L)
MW3A	1A	ND
MW3B	2A	100
MW3C	3A	1.6
MW3C Filtered	4A	1.7
Rep. Limit		0.50

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Analyzed: 10/29/91
Date Reported: 11/05/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 53124
Matrix: WATER

METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Hexavalent Chromium	N/A	ND	0.010

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicatedin parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Prepared: N/A
Date Analyzed: 10/29/91
Date Reported: 11/05/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 53124
Matrix: WATER

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Hexavalent Chromium	N/A	0.20	102

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Hexavalent Chromium	N/A	0.20	100

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Hexavalent Chromium	N/A	2.0

NR = Not reportable; see cover letter for explanation

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Hexavalent Chromium, EPA Method 7196

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Reported: 11/05/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 53124
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Hexavalent Chromium	N/A	0.20	103

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Sampled: 10/29/91
Date Received: 10/29/91
Date Extracted: 10/30/91
Date Analyzed: 10/30/91
Date Reported: 11/08/91
Client ID No.: MW3A

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620-1B
Batch No.: 8246
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	84

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Sampled: 10/29/91
Date Received: 10/29/91
Date Extracted: 10/30/91
Date Analyzed: 10/30/91
Date Reported: 11/08/91
Client ID No.: MW3B

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620-2B
Batch No.: 8246
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	95

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	25	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	1.2	0.5
1,2-Dichloroethane	107-06-2	1.7	0.5
1,1-Dichloroethene	75-35-4	13	0.5
1,2-Dichloroethene, total	540-59-0	45	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	6.8	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	650	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	6.4	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Sampled: 10/29/91
Date Received: 10/29/91
Date Extracted: 10/30/91
Date Analyzed: 10/30/91
Date Reported: 11/08/91
Client ID No.: MW3C

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620-3B
Batch No.: 8246
Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	93

ANALYTE

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	25	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	5.4	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	61	0.5
1,2-Dichloroethene, total	540-59-0	46	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	1.7	0.5
1,1,1-Trichloroethane	71-55-6	34	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	180	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	18	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Analyzed: 10/30/91
Date Reported: 11/08/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 8246
Matrix: WATER

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	85

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	1.0
Bromomethane	74-83-9	ND	1.0
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	1.0
2-Chloroethyl vinyl ether	110-75-8	ND	1.0
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	1.0
Dibromochloromethane	124-48-1	ND	0.5
Dibromomethane	74-95-3	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	1.0
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichlorotrifluorethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	1.0

ND = Not detected at or above indicated Reporting Limit
NR = Not reportable; see cover letter for explanation
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Analyzed: 10/30/91
Date Reported: 11/08/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 8246
Matrix: WATER

MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/L)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	91

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/L)	MS Recovery (percent)
Chlorobenzene	108-90-7	20	89
1,1-Dichloroethene	75-35-4	20	95
Trichloroethene	79-01-6	20	91

NR = Not reportable; see cover letter for explanation.

MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/L)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	10	93

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/L)	MSD Recovery (percent)
Chlorobenzene	108-90-7	20	96
1,1-Dichloroethene	75-35-4	20	103
Trichloroethene	79-01-6	20	104

NR = Not reportable; see cover letter for explanation.

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Analyzed: 10/30/91
Date Reported: 11/08/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 8246
Matrix: WATER

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Chlorobenzene	108-90-7	8
1,1-Dichloroethene	75-35-4	8
Trichloroethene	79-01-6	13

NR = Not reportable; see cover letter for explanation

AMERICAN
ENVIRONMENTAL LABORATORIES CORP.
CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Halogenated Volatile Organics, EPA Method 601
Purge and Trap, EPA Method 5030

Client: AEMC White Rock
11855 White Rock Road
Rancho Cordova, CA 95742

Project: ELECTRO-COATING, EMERYVILLE

Date Reported: 11/07/91

Project No.: 83210
Contact: MARK REISIG
Phone: (916) 985-6666

AELC Contact: MIKE JAEGER
Job No.: 83210
COC Log No.: 50014
AELC ID No.: L7620
Batch No.: 8246
Matrix: WATER

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Chlorobenzene	108-90-7	20	91
1,1-Dichloroethene	75-35-4	20	106
Trichloroethene	79-01-6	20	100

AMERICAN ENVIRONMENTAL MANAGEMENT CORP.

CHAIN OF CUSTODY

LOG NO. 50014

CLIENT NAME: Electro Coatings - Emeryville (EC-E)

ADDRESS:

PROJECT NAME: Electro Coating Emeryville

PROJECT MANAGER: Reisig Mark PHONE # 4056

SAMPLED BY: Mike Sodinko

JOB DESCRIPTION: Water Sampling

SITE LOCATION:

CLIENT JOB NUMBER: 8320

DESTINATION LABORATORY:

- [x] AETC 3249 FITZGERALD RD. RANCHO CORDOVA, CA 95670
- [ ] OTHER

PRESERVATIVES

ANALYSIS REQUESTED: Total Chrome; Hex. Chrome; EPA Method 601

FIELD CONDITIONS:

COMPOSITE:

SPECIAL INSTRUCTIONS: Filter 34, 36, 3C
do Not Filter - 3C

TURN AROUND TIME: 24 HOURS; 48 HOURS; 1 WEEK; 2 WEEKS

NOTE / FIELD READINGS

DATE	TIME	SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE METHOD	SAMPLE TYPE	CONTAINER NO	CONTAINER TYPE	PRESERVATIVES	Total Chrome	Hex. Chrome	EPA Method 601	24 HOURS	48 HOURS	1 WEEK	2 WEEKS
10/29/91		MW 3A	-	-	water	3	1-C.T.C 2-VOA	3	/	/	/				✓
10/29/91		MW 3B	-	-	water	3	1-C.T.C 2-VOA	3	/	/	/				✓
10/29/91		MW 3C	-	-	water	3	2-C.T.C 2-VOA	3	/	/	/				✓

SUSPECTED CONSTITUENTS:

SAMPLE RETENTION TIME:

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	REMARKS
Mike Sodinko	10/29/91 19:48	NATHAN PHILLIPS	10/29/91 19:48	rec'd cold + intact

PRESERVATIVES: (1) HCL (2) HNO_3 (3) COLD (4)

LAB TO SEND RESULTS TO: Reisig — ORIGINAL; COPY

SHIPPED: [ ] FED X [ ] UPS [x] OTHER CLIENT AIRBILL #

APPENDIX C

PLATES DEPICTING PRIOR GROUNDWATER CONDITIONS

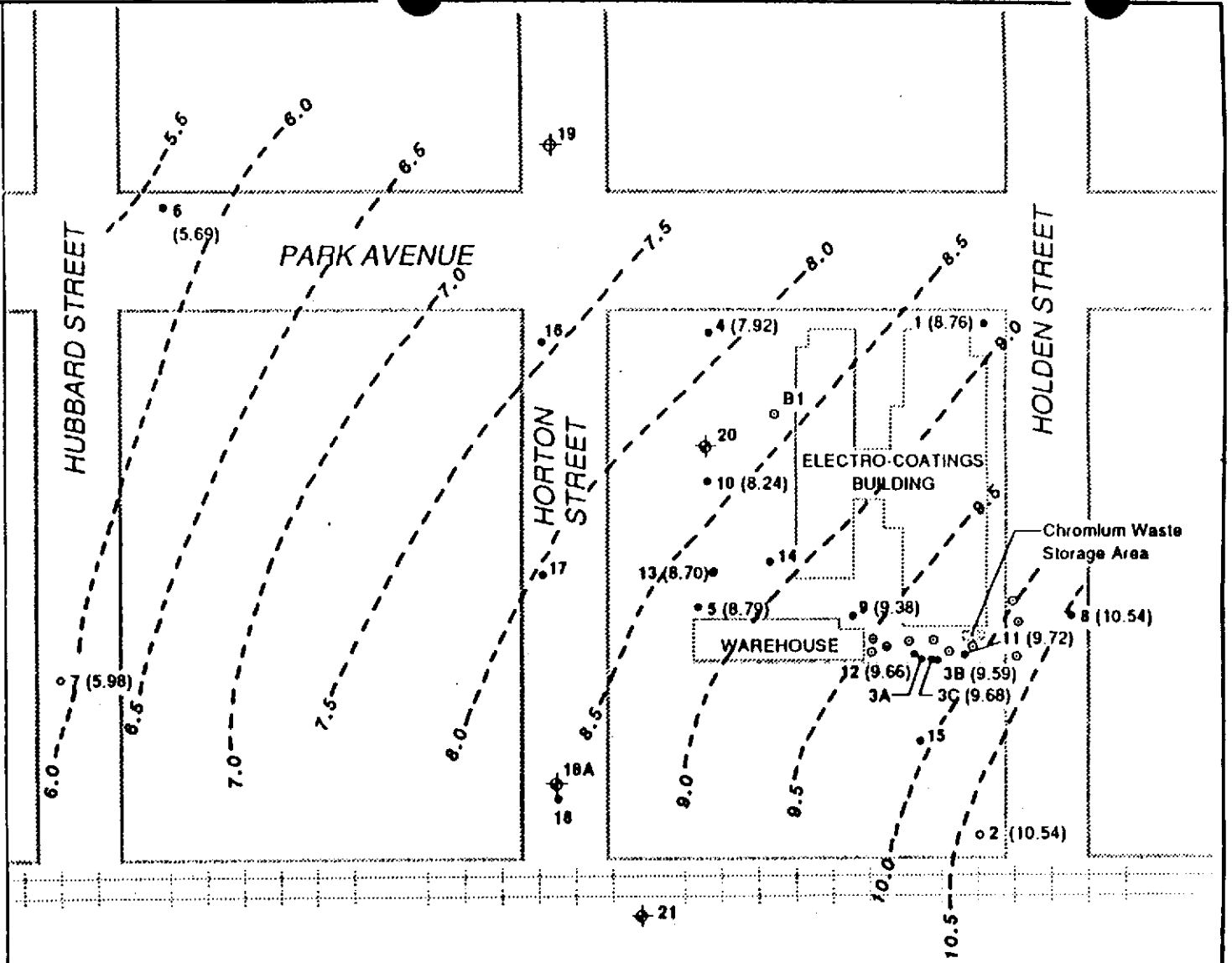
Groundwater Surface Contour Maps

1981, 1983, 1985, 1991

LEGEND

- ELECTRO-COATINGS, INC., PROPERTY LINE
- •1 WELLS INSTALLED BY PREVIOUS INVESTIGATORS
- ⌖ 20 WELLS INSTALLED BY KLEINFELDER AS OF 1985
- ○ 2 WELLS INSTALLED BY PREVIOUS INVESTIGATORS THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- ⌖ 19 WELLS INSTALLED BY KLEINFELDER THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- B1 ⊙ SOIL BORING
- (5.90) GROUND WATER SURFACE ELEVATION (feet)
- 6.5 GROUND WATER SURFACE ELEVATION CONTOUR (feet)

NOTE: Ground water elevations are based on an arbitrary survey datum.



120 0 120

Approximate Scale (feet)

KLEINFELDER

DRAFTED BY: L. Sue/L. Latman DATE: 4-17-91

CHECKED BY: J. Romle DATE: 4-23-91

INFERRED PIEZOMETRIC SURFACE CONTOUR MAP FOR SHALLOW WATER BEARING ZONE, JANUARY 1991

ELECTRO-COATINGS, INC.
1401 PARK AVENUE
EMERYVILLE, CALIFORNIA

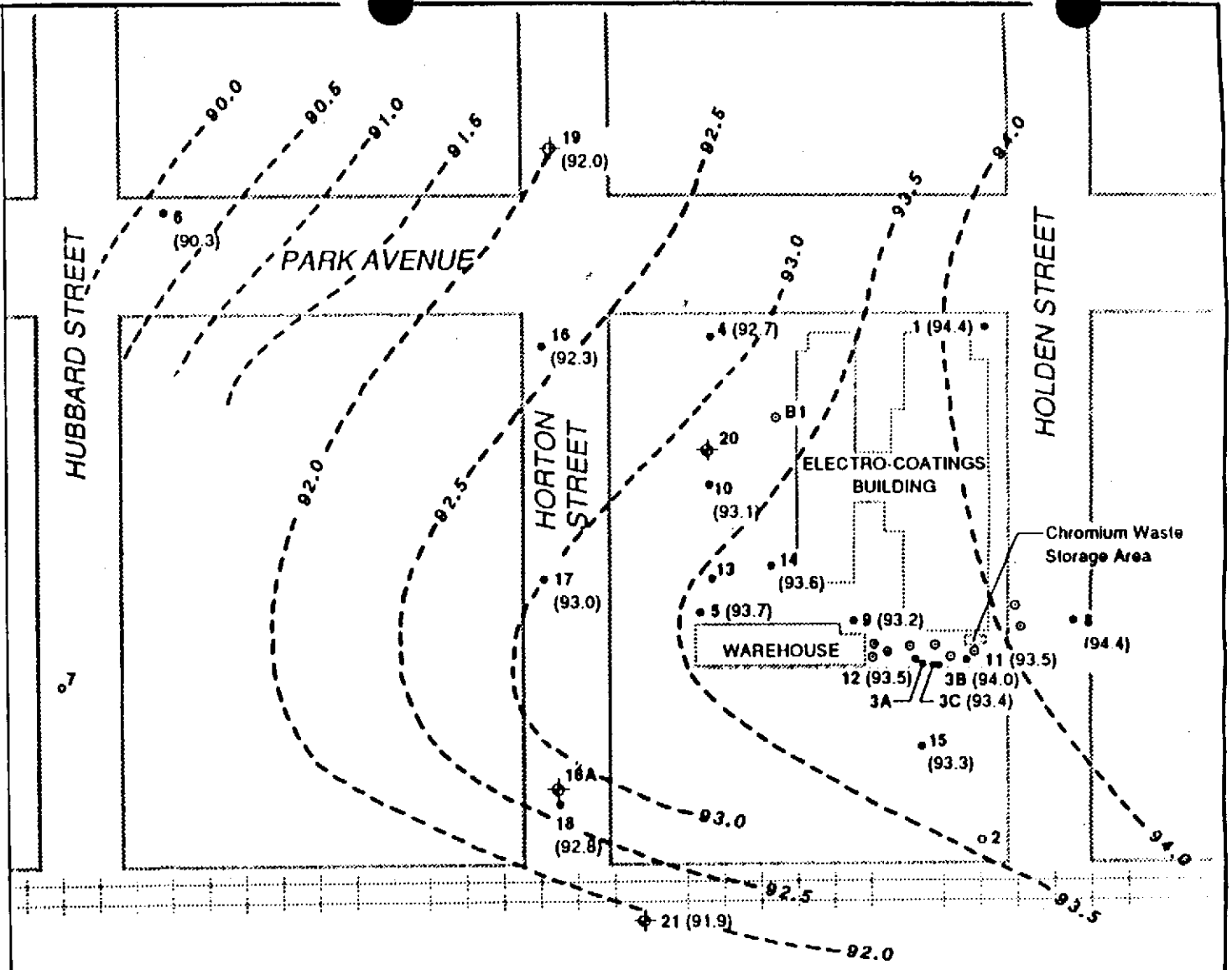
PROJECT NO. 10-2200-01

PLATE 6

LEGEND

- ELECTRO-COATINGS, INC., PROPERTY LINE
- •1 — WELLS INSTALLED BY PREVIOUS INVESTIGATORS
- ⌖ 20 — WELLS INSTALLED BY KLEINFELDER AS OF 1985
- ○ 2 — WELLS INSTALLED BY PREVIOUS INVESTIGATORS THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- ⌖ 19 — WELLS INSTALLED BY KLEINFELDER THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- B1 ⊙ — SOIL BORING
- (90.3) — GROUND WATER SURFACE ELEVATION (feet)
- 91.0 — GROUND WATER SURFACE ELEVATION CONTOUR (feet)

NOTE: Ground water elevations are based on an arbitrary survey datum.



120 0 120
Approximate Scale (feet)

KLEINFELDER

DRAFTED BY: L. Sue/L. Latman DATE: 4-17-91

CHECKED BY: J. Romie DATE: 4-23-91

INFERRED PIEZOMETRIC SURFACE CONTOUR MAP FOR SHALLOW WATER BEARING ZONE, AUGUST 9, 1983

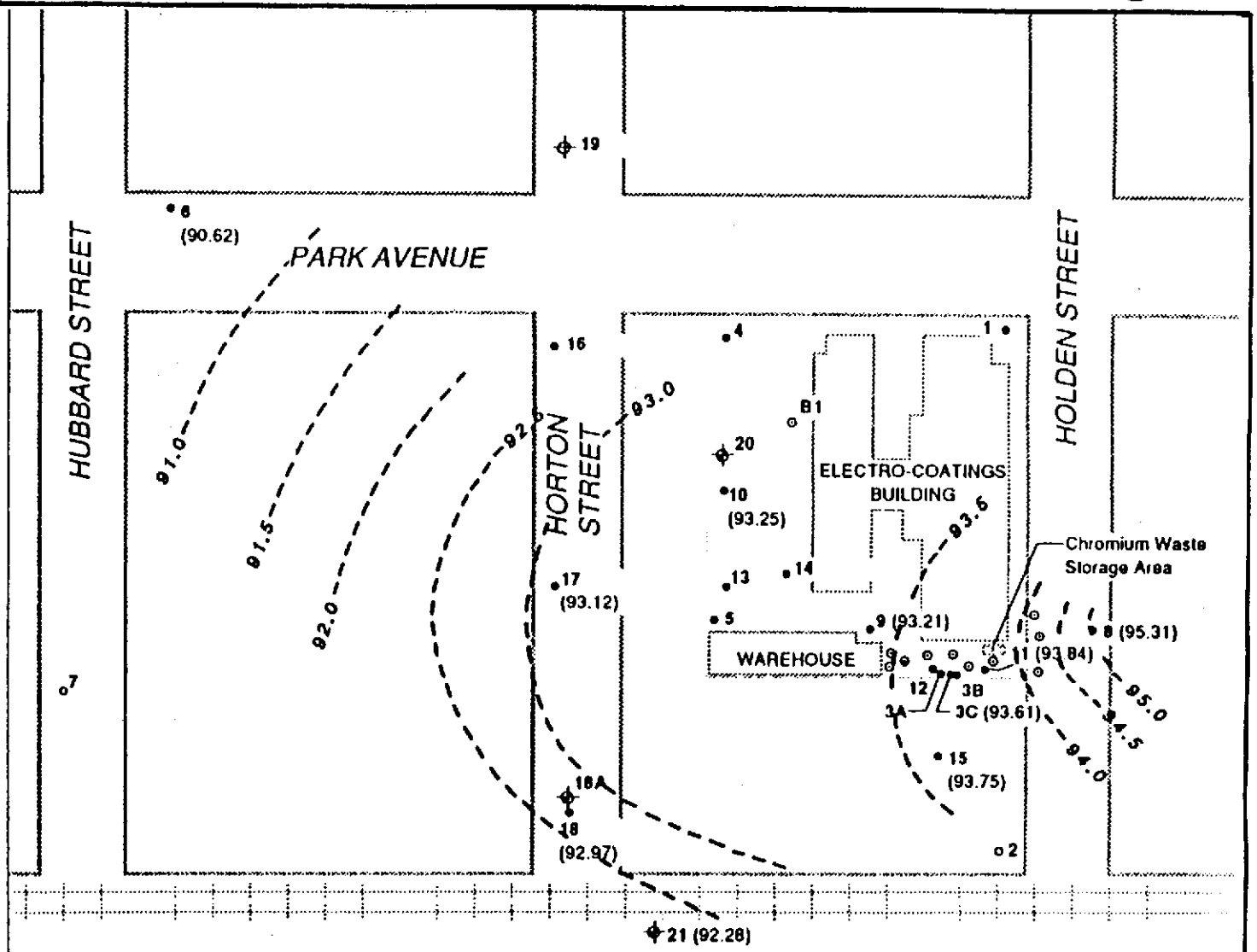
ELECTRO-COATINGS, INC.
1401 PARK AVENUE
EMERYVILLE, CALIFORNIA

PROJECT NO. 10-2200-01

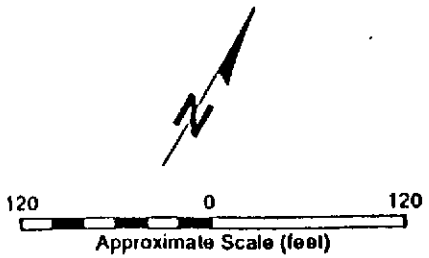
PLATE 7

LEGEND

- ELECTRO-COATINGS, INC., PROPERTY LINE
- 1 — WELLS INSTALLED BY PREVIOUS INVESTIGATORS
- 20 — WELLS INSTALLED BY KLEINFELDER AS OF 1985
- 2 — WELLS INSTALLED BY PREVIOUS INVESTIGATORS THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- 19 — WELLS INSTALLED BY KLEINFELDER THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- B1 — SOIL BORING
- (90.62) — GROUND WATER SURFACE ELEVATION (feet)
- 92.0 — GROUND WATER SURFACE ELEVATION CONTOUR (feet)



NOTE: Ground water elevations are based on an arbitrary survey datum.



KLEINFELDER

DRAFTED BY:	L. Sue/L. Latman	DATE:	4-17-91
CHECKED BY:	J. Romle	DATE:	4-23-91

INFERRED PIEZOMETRIC SURFACE CONTOUR MAP FOR SHALLOW WATER BEARING ZONE, JUNE 6, 1985

ELECTRO-COATINGS, INC.
1401 PARK AVENUE
EMERYVILLE, CALIFORNIA

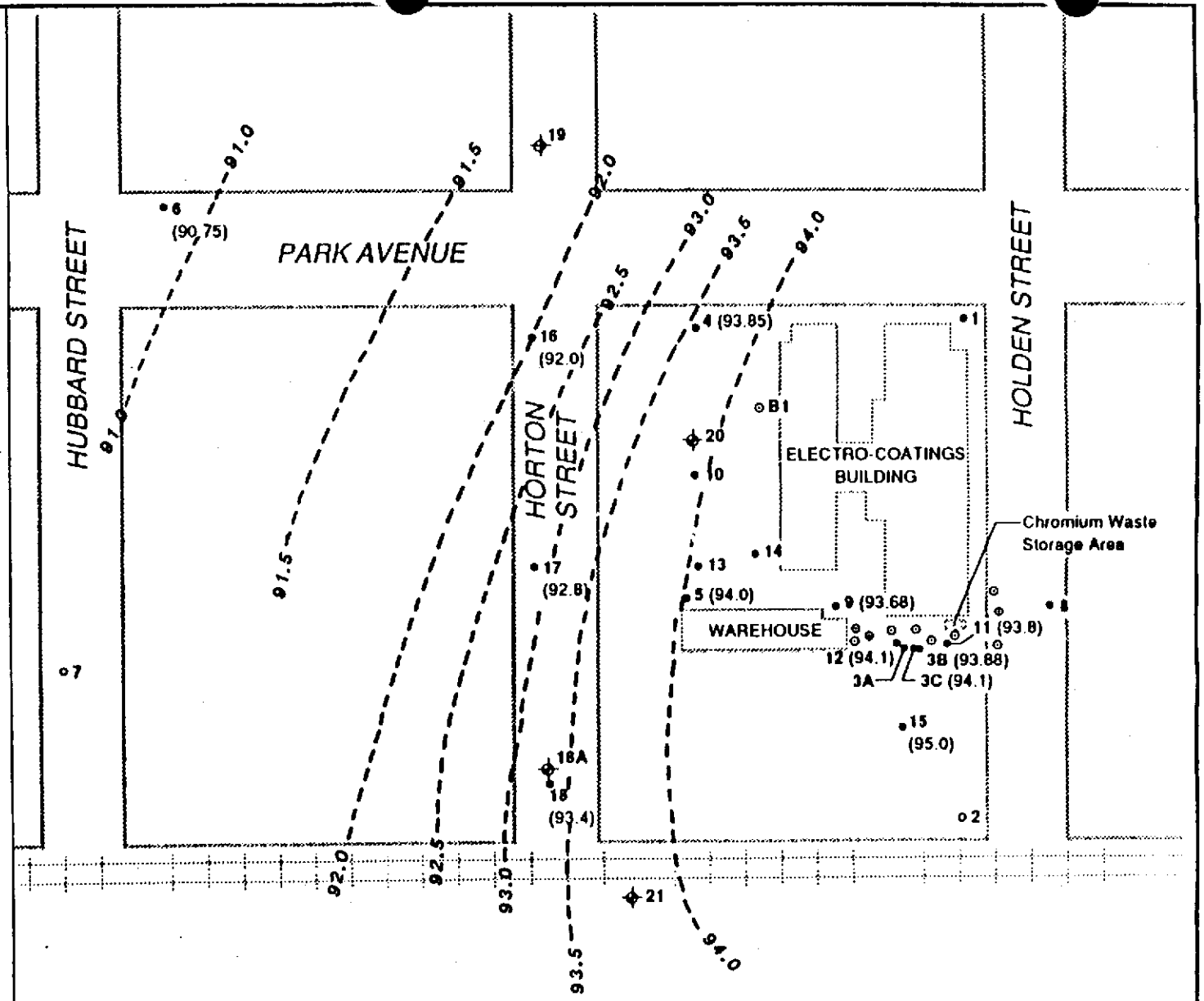
PROJECT NO. 10-2200-01

PLATE 8

LEGEND

- ELECTRO-COATINGS, INC., PROPERTY LINE
- •1 WELLS INSTALLED BY PREVIOUS INVESTIGATORS
- ⌖ 20 WELLS INSTALLED BY KLEINFELDER AS OF 1985
- ○ 2 WELLS INSTALLED BY PREVIOUS INVESTIGATORS THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- ⌖ 19 WELLS INSTALLED BY KLEINFELDER THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- B1 ⊙ SOIL BORING
- (93.4) GROUND WATER SURFACE ELEVATION (feet)
- 93.5 GROUND WATER SURFACE ELEVATION CONTOUR (feet)

NOTE: Ground water elevations are based on an arbitrary survey datum.



120 0 120
Approximate Scale (feet)

KLEINFELDER

DRAFTED BY: L. Sue/L. Latman	DATE: 4-17-91	
CHECKED BY: J. Romle	DATE: 4-23-91	

INFERRED PIEZOMETRIC SURFACE CONTOUR MAP FOR SHALLOW WATER BEARING ZONE, FEBRUARY 21, 1991

ELECTRO-COATINGS, INC.
1401 PARK AVENUE
EMERYVILLE, CALIFORNIA

PROJECT NO. 10-2200-01

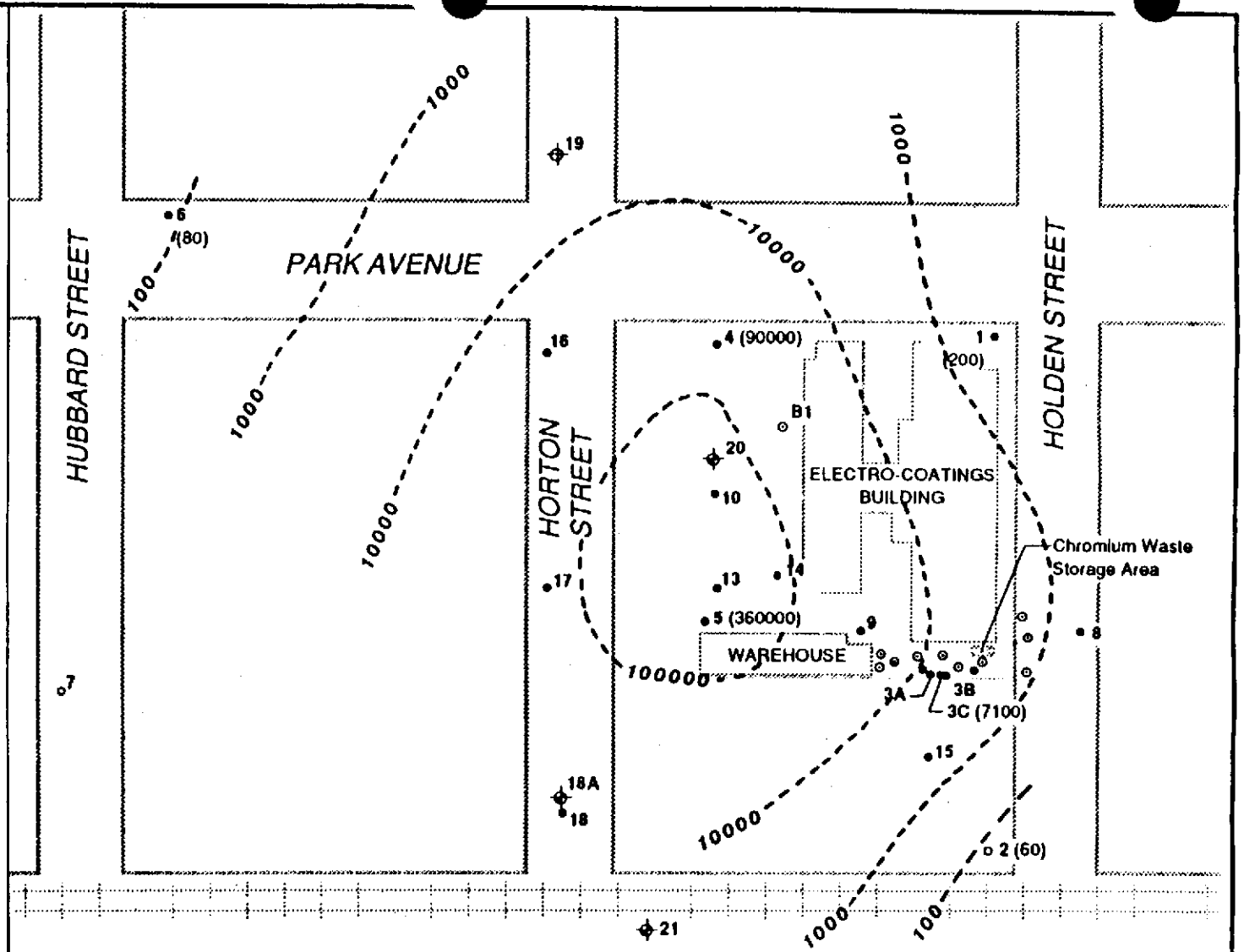
PLATE 9

Total Chromium in Shallow Groundwater

1977, 1981, 1985

LEGEND

- ELECTRO-COATINGS, INC., PROPERTY LINE
- 1 — WELLS INSTALLED BY PREVIOUS INVESTIGATORS
- 20 — WELLS INSTALLED BY KLEINFELDER AS OF 1985
- 2 — WELLS INSTALLED BY PREVIOUS INVESTIGATORS THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- 19 — WELLS INSTALLED BY KLEINFELDER THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- B1 — SOIL BORING
- (80) — CHROMIUM CONCENTRATION (µg/l)
- 100 — CHROMIUM ISOCONCENTRATION (µg/l)
- (ND) — NOT DETECTED at or above laboratory detection limit



120 0 120
Approximate Scale (feet)

KLEINFELDER

DRAFTED BY: L. Sue/L. Latman DATE: 4-17-91

CHECKED BY: J. Romle DATE: 4-23-91

TOTAL CHROMIUM IN SHALLOW WATER BEARING ZONE, AUGUST 1977

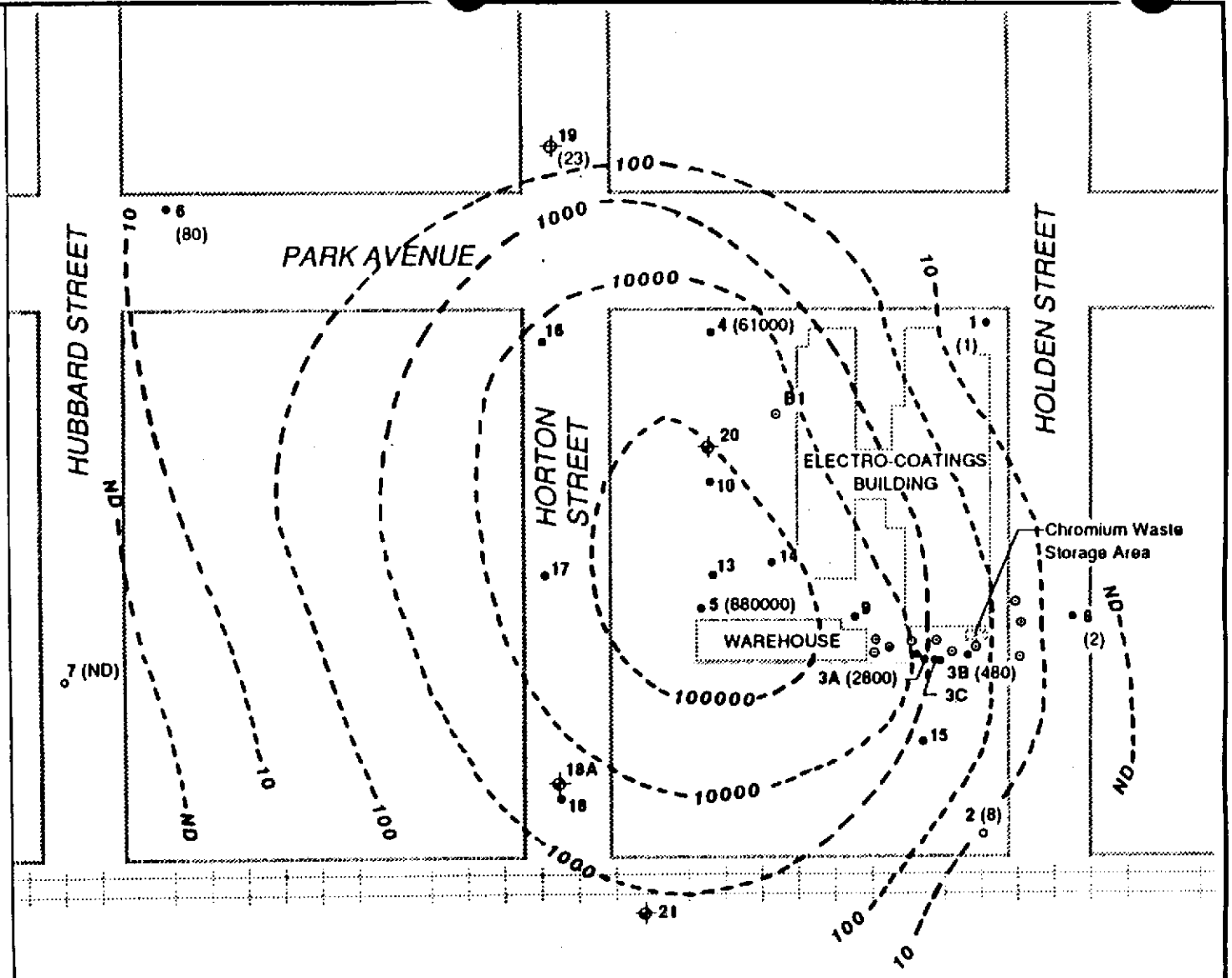
ELECTRO-COATINGS, INC.
1401 PARK AVENUE
EMERYVILLE, CALIFORNIA

PROJECT NO. 10-2200-01

PLATE 10

LEGEND

- ELECTRO-COATINGS, INC., PROPERTY LINE
- •1 WELLS INSTALLED BY PREVIOUS INVESTIGATORS
- ⌖20 WELLS INSTALLED BY KLEINFELDER AS OF 1985
- ○2 WELLS INSTALLED BY PREVIOUS INVESTIGATORS THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- ⌖19 WELLS INSTALLED BY KLEINFELDER THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- ⊙ B1 SOIL BORING
- (23) CHROMIUM CONCENTRATION (µg/l)
- 10 CHROMIUM ISOCONCENTRATION (µg/l)
- (ND) NOT DETECTED at or above laboratory detection limit



120 0 120
Approximate Scale (feet)

KLEINFELDER

DRAFTED BY: L. Sue/L. Latman DATE: 4-17-91

CHECKED BY: J. Romie DATE: 4-23-91

TOTAL CHROMIUM IN SHALLOW WATER BEARING ZONE, OCTOBER 1981

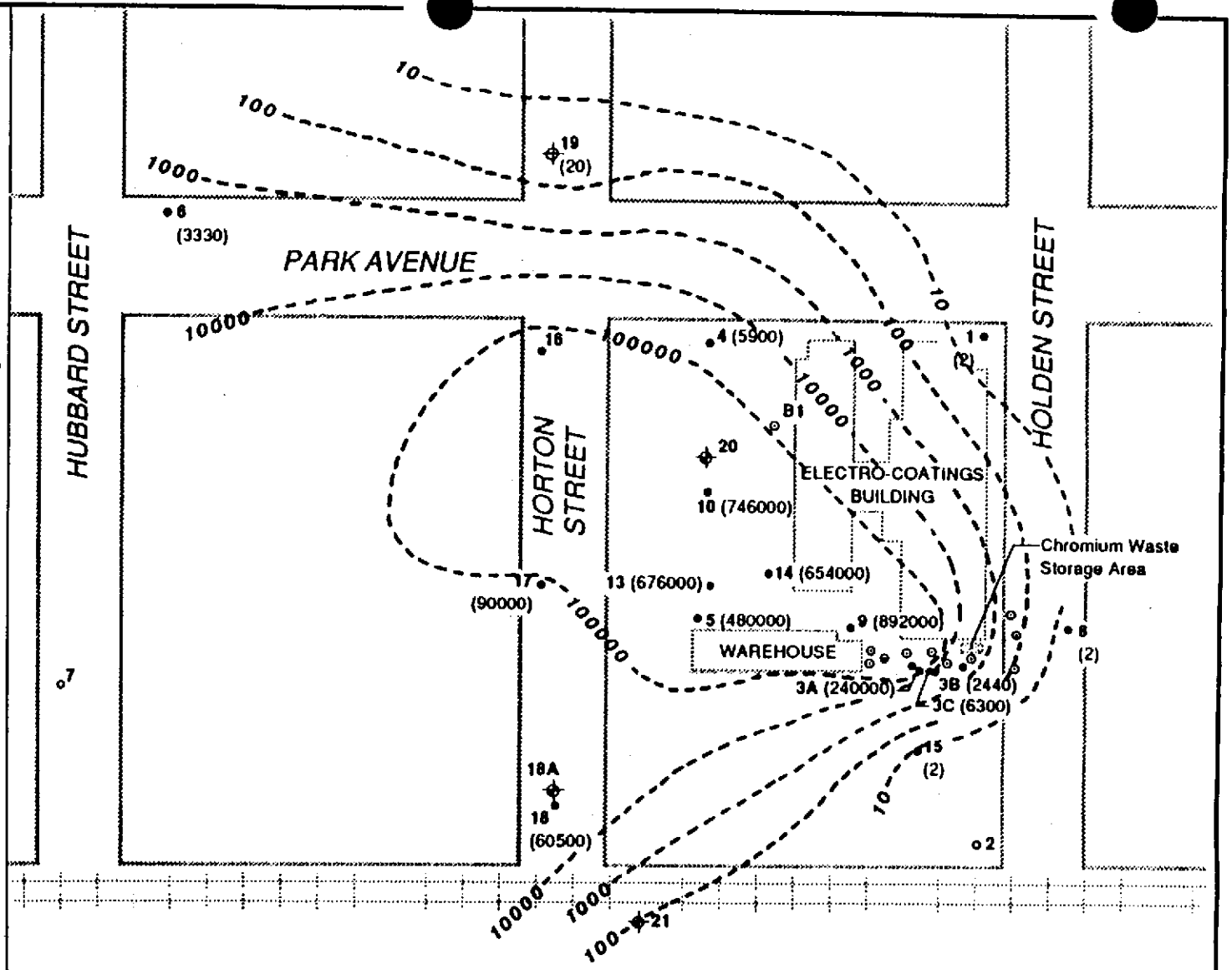
ELECTRO-COATINGS, INC.
1401 PARK AVENUE
EMERYVILLE, CALIFORNIA

PROJECT NO. 10-2200-01

PLATE 11

LEGEND

- ELECTRO-COATINGS, INC., PROPERTY LINE
- •1 — WELLS INSTALLED BY PREVIOUS INVESTIGATORS
- ⌖ 20 — WELLS INSTALLED BY KLEINFELDER AS OF 1985
- ○ 2 — WELLS INSTALLED BY PREVIOUS INVESTIGATORS THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- ⌖ 19 — WELLS INSTALLED BY KLEINFELDER THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- ○ B1 — SOIL BORING
- (1.7) — CHROMIUM CONCENTRATION (µg/l)
- 10 — CHROMIUM ISOCONCENTRATION (µg/l)
- (ND) — NOT DETECTED at or above laboratory detection limit



120 0 120
Approximate Scale (feet)

KLEINFELDER

DRAFTED BY: L. Sue/L. Latman DATE: 4-17-91

CHECKED BY: J. Romie DATE: 4-23-91

TOTAL CHROMIUM IN SHALLOW WATER BEARING ZONE, FEBRUARY1985

ELECTRO-COATINGS, INC.
1401 PARK AVENUE
EMERYVILLE, CALIFORNIA

PROJECT NO. 10-2200-01

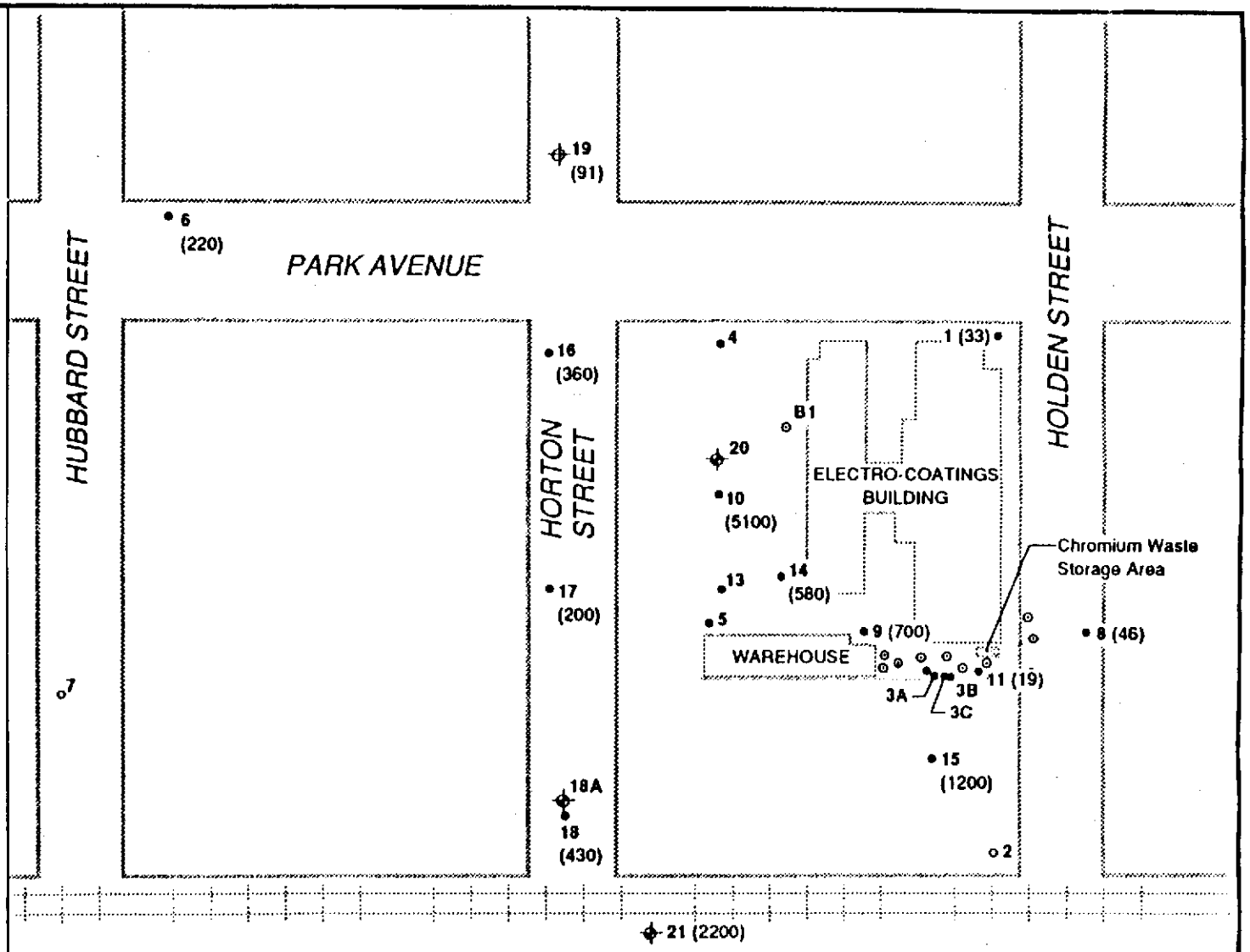
PLATE 12

Trichloroethene in Shallow Groundwater

1985

LEGEND

- ELECTRO-COATINGS, INC., PROPERTY LINE
- •1 — WELLS INSTALLED BY PREVIOUS INVESTIGATORS
- ⌖20 — WELLS INSTALLED BY KLEINFELDER AS OF 1985
- ○2 — WELLS INSTALLED BY PREVIOUS INVESTIGATORS THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- ⌖19 — WELLS INSTALLED BY KLEINFELDER THAT COULD NOT BE LOCATED AS OF FEBRUARY 1991
- B1 ⊙ — SOIL BORING
- (91) — TRICHLOROETHENE CONCENTRATION (ppb)



120 0 120
Approximate Scale (feet)

KLEINFELDER

DRAFTED BY: L. Sue/L. Latman DATE: 4-17-91

CHECKED BY: J. Romle DATE: 4-23-91

TRICHLOROETHENE IN SHALLOW WATER BEARING ZONE, 1985

ELECTRO-COATINGS, INC.
1401 PARK AVENUE
EMERYVILLE, CALIFORNIA

PROJECT NO. 10-2200-01

PLATE 13