ARCADIS G&M

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WESTERN REGION

Mr. Mark Johnson
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Subject:
Semi-Annual Groundwater Monitoring Report, Former Electro-Coatings, Inc. Facility, 1421 Park Avenue, Emeryville, California.

ARCADIS G&M Project No.: RC000549.0001.00002

Richmond, CA
18 October 2001

Contact:
Gene Y. Ng

Extension:
510.233.3200

Dear Mr. Johnson:

On behalf of Electro-Coatings, Inc., ARCADIS G&M is pleased to submit the enclosed Semi-Annual Groundwater Monitoring Report for the above-referenced site.

If you have any questions or need additional information, please do not hesitate to contact either of the undersigned.

Sincerely,

ARCADIS G&M, Inc.

Gene Y. Ng
Staff Engineer

Steven J. Brussee
Project Manager

Copies:

Mr. Jeff Garvens (2 copies)
c/o Electro-Coatings, Inc.
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Alameda County Environmental Health
1131 Harbor Bay Parkway
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SEMI-ANNUAL GROUNDWATER MONITORING REPORT

July 2001

FORMER ELECTRO-COATINGS, INC. FACILITY

1421 PARK AVENUE

EMERYVILLE, CALIFORNIA

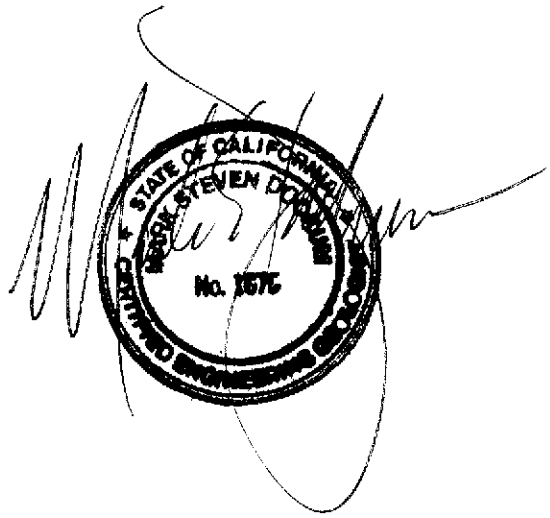
Prepared by

ARCADIS G&M, Inc.

18 October 2001

Steven J. Brussee
Project Manager

Mark S. Dockum, RG, CEG
Area Manager/Associate Vice President



Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Introduction

Groundwater Monitoring

This report presents the results of the July 2001 groundwater monitoring event conducted by ARCADIS G&M on behalf of Electro-Coatings, Inc. (ECI) at the former ECI facility at 1421 Park Avenue in Emeryville, California (Figure 1).

Groundwater monitoring wells associated with the 1421 Park Avenue site are sampled semi-annually, as proposed by ECI in their September 1, 2000 letter to the California Regional Water Quality Control Board, San Francisco Bay Region (CRWQCB). This schedule was approved in the CRWQCB's September 7, 2000 response.

The data from the groundwater monitoring events are being used to evaluate the concentrations of halogenated volatile organic compounds (HVOCs), chromium (Cr), and hexavalent chromium (Cr[VI]) in groundwater at and downgradient from the site.

Summaries of the analytical data for this event are presented in Tables 1 and 2.

Remediation-in-Progress, In-Situ Reactive Zone Technology

In 1997, ARCADIS G&M initiated In-situ Reactive Zone (IRZ) remediation technology at 1401 and 1421 Park Avenue. Based on the successful results of the remediation, the CRWQCB granted conditional No-Further-Action status for the former ECI facility at 1401 Park Avenue in a letter dated September 7, 2000. In the letter, the CRWQCB also requested additional evaluation and remediation of areas downgradient of the 1401 Park Avenue site. To date, remediation has been conducted at the 1401 and 1421 Park Avenue addresses. 1421 Park Avenue is the address immediately downgradient of the 1401 Park Avenue site.

Field Activities and Laboratory Analyses

The groundwater monitoring wells sampled during this event include MW-4, MW-5, MW-6, MW-10, MW-13, MW-14, MW-16, MW-17, MW-18, MW-18A, MW-20, and MW-26. Investigation wells IW-01-01, and IW-01-02 were also sampled during this event. Wells MW-26, IW-01-01, and IW-01-02 were installed at the 1421 Park Avenue site on March 20, 2001, as documented in ARCADIS G&M's *Well Installation Report*, dated May 31, 2001.

The field event was performed by Blaine Tech Services on July 11 and 12, 2001. Prior to sampling, depth-to-water measurements were obtained from each well (Table 3).

The wells were then low-flow sampled using an above-ground peristaltic pump. The low-flow sampling procedure was conducted according to the protocol described in the United States Environmental Protection Agency (US EPA) publication entitled *Ground Water Issue, Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* (EPA/540/S-95/504).

During the low-flow sampling procedure, new polyethylene tubing was used for each well. The intake of the tubing was placed at approximately the middle of the screened interval for each well. During the sampling process, groundwater was extracted from each well at approximately ½ liter per minute. Groundwater quality parameters (pH, specific conductance, temperature, redox, and dissolved oxygen) were monitored during the sampling process (Table 4). Upon stabilization of these groundwater quality parameters, groundwater samples were collected from the effluent port of the low-flow sampling equipment. The samples were collected into US EPA-approved containers, placed on ice, and transported to Curtis & Tompkins, Ltd., Analytical Laboratories, a state-certified laboratory, under chain-of-custody documentation, for the analyses indicated in Tables 5 and 6.

Results & Discussion

Overview

The groundwater monitoring wells which are sampled semi-annually include wells located at the 1421 Park Avenue property and offsite wells. All onsite wells for the 1401 Park Avenue site were abandoned in October 2000 and documented in ARCADIS Geraghty & Miller's March 14, 2001 closure report.

- Sampled wells located on the 1421 Park Avenue property within the remediation area include MW-4, MW-5, MW-10, MW-13, MW-14, MW-20, MW-26, IW-01-01, and IW-01-02.
- Offsite wells include MW-6 (the farthest downgradient monitoring well), MW-16, MW-17, MW-18, and MW-18A.

Groundwater Elevations

Groundwater elevations for the shallow-zone wells ranged from 5.80 feet above mean sea level (msl) (MW-6) to 10.56 feet above msl (IW-01-01). Historic and current depth-to-water measurements and calculated groundwater elevations are presented in Table 3.

The groundwater elevations and groundwater contours in the upper water-bearing zone for the July 2001 sampling event are presented in Figure 2. Based on the depth-to-water data recorded on July 11, 2001, the direction of groundwater flow is toward the northwest, which is consistent with the previous sampling event (February 2001).

Chromium

Cumulative analytical results for hexavalent and total chromium are summarized in Table 5; the current results are presented in Table 1 and Figure 3.

Detections of hexavalent and total chromium reported for the sampled wells are consistent with recent historical data.

Halogenated Volatile Organic Compounds

The cumulative analytical results for HVOCs are summarized in Table 6; current results are presented in Table 2 and Figure 4.

Detections of HVOCs reported for the sampled wells are consistent with historical data.

Continuing Remediation Activities

The remediation activities implemented at the 1401 Park Avenue and 1421 Park Avenue to date were designed to address the presence of hexavalent chromium and HVOCs at the sites. ECI will implement an offsite remediation program in the near future in accordance with the conditional No Further Action letter dated September 7, 2000.

Tables

Figure s

Appendix

Table 1: Current Groundwater-Sample Analytical Results
Total and Hexavalent Chromium
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

onitoring Well	Screened Interval	Date Sampled	Total Chromium (µg/L)	Hexavalent Chromium (µg/L)
MW-4	16.0-20.0	11-Jul-01	<10	<10
MW-5	11.0-15.0	12-Jul-01	52	20
MW-10	17.5-24.5	11-Jul-01	34	<10
MW-13	10.5-15.5	11-Jul-01	43	<10
MW-14	15.0-25.0	11-Jul-01	40	<10
MW-26	6.0-21.0	11-Jul-01	31	<10
IW-01-01	6.0-21.0	11-Jul-01	<10	<10
IW-01-02	6.0-25.0	11-Jul-01	24	<10
MW-20 deep well)	31.0-51.0	11-Jul-01	<10	<10
MW-6	13.0-17.0	12-Jul-01	2,500	2,400
MW-16	12.0-22.0	12-Jul-01	110,000*	70
MW-17	10.0-20.0	12-Jul-01	170,000*	170
MW-18	15.0-25.0	12-Jul-01	5,400	5,100
MW-18A deep well)	35.0-50.0	12-Jul-01	<10	30

Total chromium analyzed using US EPA Method 6010B.
Hexavalent chromium analyzed using US EPA Method 7196.

µg/L Micrograms per liter
< Symbol indicates not detected at or above the laboratory detection limit as noted.

Table 2: Current Groundwater-Sample Analytical Results—Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-4	11-Jul-01	<250	<250	7,500	<250	<250	1,200	<250	<250	<250	---	---	---	---
MW-5	12-Jul-01	<5.0	<5.0	8.1	<5.0	<5.0	11	<5.0	<5.0	<5.0	---	---	---	---
MW-10	11-Jul-01	<5.0	12	6.8	<5.0	<5.0	<5.0	<5.0	7.1	<5.0	---	---	---	---
MW-13	11-Jul-01	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Chloroethane 2.9	---	---	---
MW-14	11-Jul-01	<5.0	7.7	13	<5.0	<5.0	15	<5.0	<5.0	<5.0	Carbon Disulfide; 7.3	---	---	---
MW-26	11-Jul-01	<5.0	<5.0	15	6	<5.0	18	<5.0	<5.0	<5.0		---	---	---
IW-01-01	11-Jul-01	<130	1,800	2,800	<130	<130	1,100	<130	150	<130		---	---	---
IW-01-02	11-Jul-01	<36	<36	290	<36	<36	480	<36	38	<36		---	---	---
MW-20 (deep well)	11-Jul-01	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		---	---	---
MW-6	12-Jul-01	14	97	<5.0	<5.0	32	<5.0	<5.0	<5.0	<5.0	---	---	---	---
MW-16	12-Jul-01	<170	5,000	1,400	<170	380	820	<170	<170	<170	---	---	---	---
MW-17	12-Jul-01	7.3	270	46	14	12	11	<5.0	<5.0	<5.0	1,2-DCBz: 8.4, CBz: 21	---	---	---
MW-18	12-Jul-01	6.4	130	26	9.3	<5.0	<5.0	<5.0	<5.0	<5.0		---	---	---
MW-18A	12-Jul-01	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		---	---	---

Notes appear on the following page.

Table 2: Current Groundwater-Sample Analytical Results—Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Halogenated Volatile Organic Compounds analyzed using US EPA Method 8010.

PCE	Tetrachloroethylene
TCE	Trichloroethylene
cis-1,2-DCE	cis-1,2-Dichloroethylene
trans-1,2-DCE	trans-1,2-Dichloroethylene
1,1-DCE	1,1-Dichloroethylene
1,1,1-TCA	1,1,1-Trichloroethane
1,1-DCA	1,1-Dichloroethane
1,2-DCA	1,2-Dichloroethane
CBz	Clorobenzene
1,2-DCBz	1,2-Dichlorobenzene
1,4-DCBz	1,4-Dichlorobenzene
<	Symbol indicates not detected at or above the laboratory method detection limit as noted.
µg/L	Micrograms per liter
---	Not analyzed
NS	Not sampled

Table 3: Summary of Groundwater-Elevation Data

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	Screened Interval (feet, bgs)	Depth-to-Water (feet)	Top of Casing (feet)	Groundwater Elevation (feet)
MW-4	19-Apr-95	16.0-20.0	6.52	14.29	7.77
	19-Sep-95		6.50		7.79
	14-Dec-95		5.36		8.93
	6-Mar-96		5.90		8.39
	11-Jun-96		6.39		7.90
	12-Sep-96		6.40		7.89
	9-Dec-96		5.78		8.51
	7-Apr-97		6.49		7.80
	30-Jun-97		6.49		7.80
	29-Sep-97		6.59		7.70
	1-Dec-97		5.37		8.92
	22-Apr-98		6.47		7.82
	27-Jul-98		6.54		7.75
	8-Oct-98		6.55		7.74
	2-Feb-99		6.02		8.27
	19-May-99		5.44		8.85
	19-Oct-99		6.45		7.84
	17-Mar-00		5.88		8.41
	12-Feb-01		5.49		8.80
	11-Jul-01		**6.22**		**8.07**
MW-5	19-Apr-95	11.0-15.0	6.95	15.87	8.92
	30-Jun-97		6.84		9.03
	29-Sep-97		7.82		8.05
	22-Apr-98		6.50		9.37
	27-Jul-98		7.48		8.39
	8-Oct-98		7.72		8.15
	2-Feb-99		6.50		9.37
	21-May-99		6.48		9.39
	19-Oct-99		8.19		7.68
	16-Mar-00		6.32		9.55
	12-Feb-01		6.53		9.34
(a)	**11-Jul-01**		**6.93**	**15.90**	**8.97**

Table 3: Summary of Groundwater-Elevation Data

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	Screened Interval (feet, bgs)	Depth-to-Water (feet)	Top of Casing (feet)	Groundwater Elevation (feet)
MW-10	19-Apr-95	17.5-24.5	6.94	15.10	8.16
	29-Sep-97		7.10		8.00
	1-Dec-97		5.50		9.60
	22-Apr-98		6.62		8.48
	27-Jul-98		6.95		8.15
	8-Oct-98		7.10		8.00
	2-Feb-99		6.43		8.67
	19-May-99		NM		NM
	19-Oct-99		7.11		7.99
	17-Mar-00		6.28		8.82
	12-Feb-01		5.67		9.43
	11-Jul-01		**6.67**		**8.43**
MW-13	19-Apr-95	10.5-15.5	6.75	15.37	8.62
	19-Sep-95		6.94		8.43
	14-Dec-95		5.45		9.92
	6-Mar-96		5.94		9.43
	11-Jun-96		6.75		8.62
	12-Sep-96		6.80		8.57
	9-Dec-96		6.02		9.35
	7-Apr-97		6.92		8.45
	30-Jun-97		6.66		8.71
	29-Sep-97		6.87		8.50
	1-Dec-97		5.15		10.22
	22-Apr-98		6.31		9.06
	27-Jul-98		6.58		8.79
	8-Oct-98		7.00		8.37
	2-Feb-99		6.03		9.34
	19-May-99		6.96		8.41
	19-Oct-99		6.99		8.38
	16-Mar-00		5.65		9.72
	12-Feb-01		5.27		10.10
(a)	**11-Jul-01**		**6.28**	**15.40**	**9.12**

Table 3: Summary of Groundwater-Elevation Data

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	Screened Interval (feet, bgs)	Depth-to-Water (feet)	Top of Casing (feet)	Groundwater Elevation (feet)
MW-14	19-Apr-95	15.0-25.0	6.71	15.49	8.78
	12-Sep-96		6.74		8.75
	7-Apr-97		6.85		8.64
	29-Sep-97		6.60		8.89
	1-Dec-97		4.78		10.71
	27-Jul-98		6.92		8.57
	8-Oct-98		NM		NM
	2-Feb-99		5.95		9.54
	19-May-99		7.30		8.19
	19-Oct-99		7.11		8.38
	16-Mar-00		5.44		10.05
	12-Feb-01		5.68		9.81
(a)	**11-Jul-01**		**6.20**	**15.52**	**9.32**
MW-26	**11-Jul-01**	6.0-21.0	**6.58**	**16.07**	**9.49**
IW-01-01[(b)]	**11-Jul-01**	6.0-21.0	**6.32**	**16.88**	**10.56**
IW-01-02[(b)]	**11-Jul-01**	6.0-25.0	**8.06**	**16.02**	**7.96**
MW-20	19-Apr-95	31.0-51.0	2.78	14.93	12.15
(deep well)	19-Sep-95		2.47		12.46
	14-Dec-95		2.95		11.98
	6-Mar-96		1.43		13.50
	11-Jun-96		2.29		12.64
	12-Sep-96		2.90		12.03
	7-Apr-97		2.63		12.30
	29-Sep-97		2.90		12.03
	22-Apr-98		1.77		13.16
	27-Jul-98		2.63		12.30
	2-Feb-99		2.23		12.70
	19-May-99		2.46		12.47
	19-Oct-99		2.95		11.98
	12-Feb-01		2.03		12.90
	11-Jul-01		**2.57**		**12.36**

Table 3: Summary of Groundwater-Elevation Data

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	Screened Interval (feet, bgs)	Depth-to-Water (feet)	Top of Casing (feet)	Groundwater Elevation (feet)
MW-6	19-Apr-95	13.0-17.0	3.55	9.24	5.69
	19-Sep-95		3.72		5.52
	14-Dec-95		3.01		6.23
	6-Mar-96		3.31		5.93
	11-Jun-96		5.34		3.90
	12-Sep-96		3.60		5.64
	9-Dec-96		3.19		6.05
	7-Apr-97		3.64		5.60
	30-Jun-97		3.57		5.67
	29-Sep-97		3.56		5.68
	1-Dec-97		3.14		6.10
	22-Apr-98		3.51		5.73
	27-Jul-98		3.01		6.23
	8-Oct-98		3.34		5.90
	2-Feb-99		2.71		6.53
	19-May-99		3.69		5.55
	19-Oct-99		2.72		6.52
	17-Mar-00		2.67		6.57
	12-Feb-01		NM		NM
	11-Jul-01		**3.44**		**5.80**

Table 3: Summary of Groundwater-Elevation Data

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	Screened Interval (feet, bgs)	Depth-to-Water (feet)	Top of Casing (feet)	Groundwater Elevation (feet)
MW-16	19-Apr-95	12.0-22.0	4.57	12.08	7.51
	19-Sep-95		4.64		7.44
	14-Dec-95		4.28		7.80
	6-Mar-96		4.01		8.07
	11-Jun-96		4.50		7.58
	12-Sep-96		4.55		7.53
	9-Dec-96		3.98		8.10
	7-Apr-97		4.57		7.51
	30-Jun-97		4.55		7.53
	29-Sep-97		4.63		7.45
	1-Dec-97		3.51		8.57
	22-Apr-98		4.40		7.68
	27-Jul-98		4.49		7.59
	8-Oct-98		4.62		7.46
	2-Feb-99		4.40		7.68
	19-May-99		4.56		7.52
	19-Oct-99		4.60		7.48
	17-Mar-00		3.80		8.28
	12-Feb-01		3.96		8.12
	11-Jul-01		**4.38**		**7.70**

Table 3: Summary of Groundwater-Elevation Data

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	Screened Interval (feet, bgs)	Depth-to-Water (feet)	Top of Casing (feet)	Groundwater Elevation (feet)
MW-17	19-Apr-95	10.0-20.0	4.48	12.76	8.28
	19-Sep-95		4.78		7.98
	14-Dec-95		3.31		9.45
	6-Mar-96		3.75		9.01
	11-Jun-96		4.55		8.21
	12-Sep-96		4.61		8.15
	9-Dec-96		3.89		8.87
	7-Apr-97		4.71		8.05
	30-Jun-97		4.55		8.21
	29-Sep-97		4.66		8.10
	1-Dec-97		3.49		9.27
	22-Apr-98		4.10		8.66
	27-Jul-98		4.43		8.33
	8-Oct-98		4.69		8.07
	2-Feb-99		3.91		8.85
	19-May-99		4.43		8.33
	19-Oct-99		4.86		7.90
	16-Mar-00		3.57		9.19
	12-Feb-01		3.43		9.33
	11-Jul-01		**4.22**		**8.54**
MW-18	19-Apr-95	15.0-25.0	4.79	13.57	8.78
	19-Sep-95		5.00		8.57
	14-Dec-95		3.48		10.09
	6-Mar-96		3.96		9.61
	11-Jun-96		4.86		8.71
	30-Jun-97		4.69		8.88
	29-Sep-97		5.01		8.56
	22-Apr-98		4.14		9.43
	27-Jul-98		4.54		9.03
	2-Feb-99		4.30		9.27
	19-May-99		4.84		8.73
	19-Oct-99		5.02		8.55
	12-Feb-01		3.52		10.05
	11-Jul-01		**5.04**		**8.53**

Table 3: Summary of Groundwater-Elevation Data

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	Screened Interval (feet, bgs)	Depth-to-Water (feet)	Top of Casing (feet)	Groundwater Elevation (feet)
MW-18A	19-Apr-95	35.0-50.0	4.67	13.36	8.69
(deep well)	19-Sep-95		5.76		7.60
	14-Dec-95		5.60		7.76
	6-Mar-96		3.86		9.50
	11-Jun-96		4.85		8.51
	30-Jun-97		5.08		8.28
	29-Sep-97		5.26		8.10
	22-Apr-98		4.15		9.21
	27-Jul-98		4.86		8.50
	2-Feb-99		4.05		9.31
	19-May-99		4.64		8.72
	19-Oct-99		5.42		7.94
	12-Feb-01		4.81		8.55
	11-Jul-01		**4.40**		**8.96**
MW-19	19-Apr-95	10.0-25.0	NL		NL
MW-21	19-Apr-95	10.0-25.0	NL		NL
MW-2	19-Apr-95	14.0-21.0	NL		NL
MW-7	19-Apr-95	10.0-13.0	NL		NL

NL = Monitoring well has not been located by ARCADIS G&M.

NM = Not measured

bgs = below ground surface

(a) = Elevations resurveyed on April 14, 2001 by Field Designs.

(b) = Wells installed at an angle of 15 degrees to the north. Depth-to water values were calculated as (depth-to-water measured off the water level indicator line) * Cosine (15°).

Table 4: Summary of Field-Sampling Data
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well (location)	Date Sampled	Purge Volume		Field Measurements					
		Calc. (a) (gallons)	Actual (gallons)	pH	SC (µS)	Temp (°C)	Temp (°F)	DO (mg/L)	Redox (mV)
MW-4	19-Sep-95	4	4	7.1	1,970	21.6	70.9		
	15-Dec-95	4	5	6.0	2,350	18.8	65.8		
	6-Mar-96	4	5	NM	2,050	20.7	69.3		
	11-Jun-96	4	5	6.0	1,030	21.5	70.7		
	12-Sep-96	4	4.5	7.3	710	21.8	71.2		
	10-Dec-96	4	5	6.5	2,110	16.1	60.9		
	8-Apr-97	3	3	6.0	850	17.9	64.2		
	30-Jun-97	3	3.1	6.3	1,700	21.0	69.8		
	1-Oct-97	3	3	7.3	1,400	22.2	72		
	22-Apr-98	NM	NM	NM	NM	NM	NM		
	27-Jul-98	NA	1	6.1	1,300	17.5		0.73	21
	8-Oct-98	NA	1	6.6	2,240	20.9	70	0.68	-59
	2-Feb-99	NA	1	7.2	1,800	18.1	65	0.90	-18
	19-May-99	NA	1	6.5	125	17.9	64.2	0.80	-155
	19-Oct-99	NA	1	6.3	1,410	19.5	67.1	10.46	-107
	17-Mar-00	NA	2	6.2	1,118	18.6	65.5	0.28	215
	12-Feb-01	NA	2	6.4	1,207	17.9	64.3	0.15	-7
	11-Jul-01	**NA**	**3**	**6.3**	**1,541**	**19.9**	**67.9**	**1.17**	**9**
MW-5	30-Jun-97	2	1.8	5.6	2,100	21.0	69.8		
	30-Sep-97	2	1.5	7.6	1,800	24.4	76		
	23-Apr-98	2	1.0 (b)	6.5	4,480	18.1	65		
	27-Jul-98	NA	1	6.8	2,530	21.1		0.75	12
	8-Oct-98	NA	1	6.3	2,600	25.7	78	0.52	-137
	2-Feb-99	NA	1	9.2	390	15.5	60	0.62	125
	19-May-99	NA	1	5.1	1	16.2	61.2	1.40	-158
	19-Oct-99	NA	1	6.4	3,840	19.7	67.5	10.22	131
	16-Mar-00	NA	2	6.3	3,594	16.6	61.8	0.07	-105
	12-Feb-01	NA	2	6.3	2,588	15.6	60.1	0.16	-71
	11-Jul-01	**NA**	**4**	**6.2**	**2,639**	**19.0**	**66.2**	**0.31**	**-48**

Table 4: Summary of Field-Sampling Data
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well (location)	Date Sampled	Purge Volume Calc. (a) (gallons)	Purge Volume Actual (gallons)	pH	Field Measurements SC (µS)	Temp (°C)	Temp (°F)	DO (mg/L)	Redox (mV)
MW-10	30-Sep-97	32	7	6.4	2,700	23.3	74		
	22-Apr-98	33	19 (b)	7.0	2,810	18.8	66		
	27-Jul-98	NA	6	6.2	1,560	18.2	18	0.78	4
	8-Oct-98	NA	6	6.5	2,330	22.5	73	0.77	-180
	2-Feb-99	NA	6	8.6	2,800	17.8	64	0.47	93
	19-May-99	NA	6	6.6	128	17.8	64.0	0.80	-222
	19-Oct-99	NA	6	6.4	1,620	19.3	66.7	10.71	38
	17-Mar-00	NA	2	6.5	546	17.8	64.1	0.32	165
	12-Feb-01	NA	2	6.7	583	17.6	63.6	2.00	55
	11-Jul-01	**NA**	**3**	**6.5**	**810**	**19.4**	**66.9**	**0.53**	**-14**
MW-13	19-Sep-95	36	35	6.4	2,610	20.9	69.6		
	15-Dec-95	56	25 (b)	6.0	2,990	20.3	68.6		
	6-Mar-96	51	30 (b)	6.0	2,120	21.9	71.4		
	11-Jun-96	49	30 (b)	6.0	1,500	23.3	74.0		
	13-Sep-96	47	45	6.0	980	18.7	65.7		
	10-Dec-96	53	55	6.0	2,570	20.6	69.1		
	7-Apr-97	35	35	6.0	1,290	17.2	62.9		
	30-Jun-97	36	24 (b)	6.2	1,220	22.0	71.6		
	30-Sep-97	35	25	7.1	1,120	21.1	70		
	23-Apr-98	38	21 (b)	5.4	3,530	17.6	64		
	27-Jul-98	NA	7	7.0	1,920	20.4		0.70	0
	8-Oct-98	NA	7	6.7	2,310	26.9	80	0.78	-187
	2-Feb-99	NA	7	8.8	610	16.9	62	0.60	-109
	19-May-99	NA	7	5.5	1	17.4	63.3	0.80	-243
	19-Oct-99	NA	7	8.0	3,490	21.0	69.8	10.18	118
	16-Mar-00	NA	2	6.8	1,433	17.4	63.3	0.23	-71
	12-Feb-01	NA	2	6.5	1,601	17.2	62.9	0.17	-45
	11-Jul-01	**NA**	**2**	**7.0**	**1,188**	**20.7**	**69.3**	**1.09**	**17**

Table 4: Summary of Field-Sampling Data
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well (location)	Date Sampled	Purge Volume Calc. (a) (gallons)	Purge Volume Actual (gallons)	pH	Field Measurements SC (µS)	Temp (°C)	Temp (°F)	DO (mg/L)	Redox (mV)
MW-14	12-Sep-96	48	15 (b)	6.0	820	18.8	65.8		
	8-Apr-97	36	16	6.0	540	17.9	64.2		
	30-Sep-97	36	8	3.7	5,000	20.6	69		
	23-Apr-98	NM	NM	NM	NM	NM	NM		
	27-Jul-98	NA	7	5.0	2,360	21.3		0.70	98
	8-Oct-98	Not accessible							
	2-Feb-99	NA	7	9.1	800	18.3	65	0.53	117
	19-May-99	NA	7	4.5	1	18.4	65.1	1.20	-72
	19-Oct-99	NA	7	6.8	5,550	21.9	71.4	10.25	148
	16-Mar-00	NA	2	6.3	562	19.0	66.2	0.20	-75
	12-Feb-01	NA	2	6.6	790	18.0	64.4	0.14	-27
	11-Jul-01	**NA**	**2**	**6.3**	**696**	**21.3**	**70.3**	**0.50**	**-77**
MW-26	**11-Jul-01**	**NA**	**3**	**6.3**	**1,656**	**19.5**	**67.2**	**-13.2**	**3**
IW-01-01	**11-Jul-01**	**NA**	**4**	**6.4**	**2,131**	**19.5**	**67.2**	**0.62**	**-73**
IW-01-02	**11-Jul-01**	**NA**	**5**	**6.2**	**1,595**	**19.0**	**66.1**	**0.57**	**-29**
MW-20	19-Sep-95	89	90	6.9	2,530	20.2	68.4		
(deep well)	15-Dec-95	117	120	7.0	2,560	21.4	70.6		
	6-Mar-96	121	125	6.0	950	21.1	69.9		
	11-Jun-96	119	120	6.0	780	20.3	68.5		
	12-Sep-96	117	120	6.8	450	20.5	68.9		
	7-Apr-97	188	90	6.0	750	18.3	64.9		
	1-Oct-97	88	80	7.8	490	20.6	69		
	22-Apr-98	NP	NP	NP	NP	NP	NP	0.72	-2
	27-Jul-98	NA	15	6.1	480	19.3			
	2-Feb-99	NA	15	5.5	NM	18.7	66	NM	87
	19-May-99	NA	15	6.8	55	19.2	66.6	0.70	70
	19-Oct-99	NA	15	7.6	517	19.6	67.3	10.12	224
	12-Feb-01	NA	2	7.3	303	17.1	62.8	5.50	63
	11-Jul-01	**NA**	**2**	**6.6**	**598**	**20.2**	**68.3**	**0.90**	**81**

Table 4: Summary of Field-Sampling Data
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well (location)	Date Sampled	Purge Volume Calc. (a) (gallons)	Purge Volume Actual (gallons)	pH	Field Measurements SC (µS)	Temp (°C)	Temp (°F)	DO (mg/L)	Redox (mV)
MW-6	19-Sep-95	3	5	7.0	1,482	21.3	70.3		
	14-Dec-95	2	3	6.5	3,650	19.8	67.6		
	6-Mar-96	3	3	6.0	3,750	21.9	71.5		
	11-Jun-96	2	2	6.5	1,900	22.6	72.7		
	12-Sep-96	4	4	7.3	1,550	21.8	71.3		
	10-Dec-96	4	6.5	6.5	3,780	19.4	66.9		
	8-Apr-97	3	3	6.0	1,530	17.1	62.8		
	30-Jun-97	3	2.9	6.7	1,700	22.0	71.6		
	30-Sep-97	3	2.5	7.6	1,750	21.7	71		
	22-Apr-98	3	3	7.0	1,890	22.3	72		
	27-Jul-98	NA	1	6.7	1,330	21.9		0.77	-14
	8-Oct-98	NA	1	7.0	1,420	23.7	75	0.78	116
	2-Feb-99	NA	1	6.6	2,470	17.6	64	1.06	138
	19-May-99	NA	1	7.0	96	17.6	63.7	0.80	187
	19-Oct-99	NA	1	6.4	1,020	21.3	70.3	10.41	220
	17-Mar-00	NA	1.5	6.9	1,029	18.6	65.5	0.31	234
	12-Feb-01	NM	NM	NM	NM	NM	NM	NM	NM
	11-Jul-01	**NA**	**5**	**6.8**	**954**	**19.3**	**66.7**	**0.33**	**78**

Table 4: Summary of Field-Sampling Data
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well (location)	Date Sampled	Purge Volume Calc. (a) (gallons)	Purge Volume Actual (gallons)	Field Measurements pH	SC (µS)	Temp (°C)	Temp (°F)	DO (mg/L)	Redox (mV)
MW-16	19-Sep-95	40	40	6.7	1,710	NM	NM		
	14-Dec-95	54	55	6.5	2,750	18.0	64.4		
	6-Mar-96	55	55	6.0	1,800	15.4	59.8		
	11-Jun-96	53	55	6.0	1,370	25.3	77.5		
	12-Sep-96	53	55	7.2	980	20.5	68.9		
	10-Dec-96	54	55	6.5	2,730	19.5	67.1		
	8-Apr-97	39	40	6.0	110	14.9	58.9		
	30-Jun-97	40	30 (b)	6.4	1,100	21.0	69.8		
	1-Oct-97	39	35	7.4	1,050	20.0	68		
	23-Apr-98	40	40	8.0	910	17.8	64		
	27-Jul-98	NA	6	6.4	936	23.0		0.75	6
	8-Oct-98	NA	6	6.6	970	17.9	64	0.72	34
	2-Feb-99	NA	6	6.6	290	17.2	63	0.63	193
	19-May-99	NA	6	6.7	130	17.6	63.7	0.80	183
	19-Oct-99	NA	6	5.8	1,500	20.4	68.7	9.14	228
	17-Mar-00	NA	2	6.3	1,549	18.2	64.8	0.12	301
	12-Feb-01	NA	1	6.4	1,488	15.9	60.6	0.38	236
	11-Jul-01	**NA**	**4**	**6.3**	**1,621**	**19.9**	**67.8**	**0.50**	**317**

Table 4: Summary of Field-Sampling Data
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well (location)	Date Sampled	Purge Volume Calc. (a) (gallons)	Purge Volume Actual (gallons)	Field Measurements pH	SC (µS)	Temp (°C)	Temp (°F)	DO (mg/L)	Redox (mV)
MW-17	19-Sep-95	39	40	6.8	2,410	22.3	72.1		
	14-Dec-95	55	20 (b)	6.0	3,140	18.5	65.3		
	6-Mar-96	54	26 (b)	7.0	2,630	16.2	61.1		
	11-Jun-96	52	30 (b)	6.0	1,600	18.8	65.8		
	12-Sep-96	51	40	7.1	1,270	21.2	70.1		
	10-Dec-96	54	55	6.5	2,000	20.8	69.4		
	8-Apr-97	38	25	6.0	1,370	15.9	60.6		
	30-Jun-97	39	38	6.4	1,400	20.0	68.0		
	1-Oct-97	39	35	7.2	1,300	22.2	72		
	22-Apr-98	40	40	7.6	1,430	23.7	75		
	27-Jul-98	NA	5	6.4	1,010	23.6		0.76	11
	8-Oct-98	NA	5	6.7	1,030	22.6	73	0.76	252
	2-Feb-99	NA	5	6.5	2,500	17.6	64	1.16	184
	19-May-99	NA	5	6.7	136	16.8	62.2	0.70	185
	19-Oct-99	NA	5	5.8	1,310	19.6	67.3	8.64	218
	16-Mar-00	NA	4	6.4	1,286	17.0	62.5	0.46	166
	12-Feb-01	NA	1	6.5	1,304	15.4	59.8	0.55	236
	11-Jul-01	**NA**	**4**	**6.4**	**1,410**	**19.2**	**66.5**	**0.47**	**280**
MW-18	19-Sep-95	40	20 (b)	4.1	1,920	23.1	73.6		
	14-Dec-95	57	57	5.0	3,140	20.7	69.2		
	6-Mar-96	56	55	5.0	2,480	20.6	69.0		
	11-Jun-96	54	55	5.0	1,280	18.2	64.8		
	30-Jun-97	40	35 (b)	3.5	1,400	23.0	73.4		
	1-Oct-97	40	15 (b)	3.7	1,310	20.6	69		
	22-Apr-98	41	41	4.0	1,340	22.7	73	0.78	182
	27-Jul-98	NA	7	4.2	1,110	18.8			
	2-Feb-99	NA	7	6.5	2,050	18.5	65	2.05	191
	19-May-99	NA	7	7.6	50	12.8	55.0	0.80	267
	19-Oct-99	NA	7	2.8	1,480	21.1	70.0	8.33	359
	12-Feb-01	NA	1	3.7	1,231	16.9	62.5	1.00	420
	11-Jul-01	**NA**	**5**	**3.7**	**1,127**	**19.9**	**67.8**	**0.59**	**5**

Table 4: Summary of Field-Sampling Data

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well (location)	Date Sampled	Purge Volume Calc. (a) (gallons)	Purge Volume Actual (gallons)	Field Measurements pH	SC (µS)	Temp (°C)	Temp (°F)	DO (mg/L)	Redox (mV)
MW-18A	19-Sep-95	68	20 (c)	6.0	920	22.3	72.1		
(deep well)	15-Dec-95	91	40 (b)	6.5	1,960	18.3	64.9		
	6-Mar-96	96	80	6.0	810	19.9	67.8		
	11-Jun-96	93	95	6.0	680	18.4	65.2		
	30-Jun-97	70	69	7.6	500	21.0	69.8		
	1-Oct-97	69	69	7.8	490	21.7	71		
	22-Apr-98	NP	NP	NP	NP	NP	NP	0.70	-39
	27-Jul-98	NA	15	6.6	430	19.6			
	2-Feb-99	NA	15	5.1	1,900	17.8	64	1.40	348
	19-May-99	NA	15	3.8	138	17.6	63.7	1.20	428
	19-Oct-99	NA	15	7.1	541	19.7	67.5	8.81	218
	12-Feb-01	NA	1	7.6	565	17.4	63.3	6.40	219
	11-Jul-01	**NA**	**3**	**7.4**	**897**	**19.4**	**66.9**	**2.16**	**3**

(a) Based on three casing volumes.
Beginning July 1998, low-flow sampling methods were employed; three casing volume calculation is no longer used.
(b) Purged dry.
(c) Represents approximately one casing volume. Equipment problems encountered during sampling.

(µS) micro Siemens
(mV) millivolts
(mg/L) micrograms per liter
NA not applicable
NM not measured
NP not purged
SC specific conductance

Beginning February 12, 2001, field measurments taken by Blaine Tech Services.

Table 5: Cumulative Groundwater-Sample Analytical Results
Total and Hexavalent Chromium
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Screened Interval	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L)
MW-4	16.0-20.0	24-Aug-77	90,000	67,000
		15-Sep-81	57,000	NA
		11-Oct-81	61,000	NA
		24-Nov-81	56,000	NA
		21-Dec-81	55,000	NA
		26-Feb-85	59,000	59,000
		1-Jun-91	17,000	17,800
		11-Oct-91	22,000	22,000
		28-Jul-94	NA	6,300
		21-Apr-95	16,000	17,000
		19-Sep-95	14,000	15,000
		15-Dec-95	16,000	16,000
		8-Mar-96	16,000	23,000
		11-Jun-96	5,400	9,100
		13-Sep-96	14,000	1,400
		11-Dec-96	17,000 (b)	47,000
		8-Apr-97	13,000	16,000
		Apr-97	On-Site Remediation Injection Event	
		30-Jun-97	200	<50
		1-Oct-97	76	<5.0
		2-Dec-97	170	<5.0
		Feb-98	On-Site Remediation Injection Event	
		23-Apr-98	Access blocked by construction activity at 1421 Park Avenue.	
		28-Jul-98	110	<5.0
		9-Oct-98	190	<5.0
		3-Feb-99	ND(10)	<5.0 (d)
		Mar-99	On-Site Remediation Injection Event	
		25-Jun-99	<10.0	<5.00
		21-Oct-99	28	<5.0
		17-Mar-00	15	<50
		13-Feb-01	14	<10
		11-Jul-01	**<10**	**<10**

Table 5: Cumulative Groundwater-Sample Analytical Results
Total and Hexavalent Chromium
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Screened Interval	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L)
MW-5	11.0-15.0	24-Aug-77	360,000	295,000
		11-Oct-81	880,000	2,240
		24-Nov-81	610,000	NA
		21-Dec-81	280,000	NA
		26-Feb-85	480,000	480,000
		1-Jun-91	390,000	NA
		11-Oct-91	260,000	250,000
		28-Jul-94	NA	454,000
		21-Apr-95	140,000	160,000
		Apr-97	On-Site Remediation Injection Event	
		30-Jun-97	16,000	5,800
		1-Oct-97	4,400	<5.0
		Feb-98	On-Site Remediation Injection Event	
		23-Apr-98	Access blocked by construction activity at 1421 Park Avenue.	
		28-Jul-98	670	<500
		9-Oct-98	540	38
		2-Feb-99	260	<5.0 (d)
		Mar-99	On-Site Remediation Injection Event	
		25-Jun-99	3,800	<50.0
		20-Oct-99	690	<50
		16-Mar-00	86	<50
		13-Feb-01	81	20
		12-Jul-01	**52**	**20**

Table 5: Cumulative Groundwater-Sample Analytical Results Total and Hexavalent Chromium

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Screened Interval	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L)
MW-10 (a)	17.5-24.5	15-Jan-81	17,000	14,000
		26-Feb-85	746,000	740,000
		11-Oct-91	490,000	450,000
		21-Apr-95	160,000	170,000
		21-Aug-95	Pilot test injection event into MW-11.	
		22-Aug-95	150,000	150,000
		20-Oct-95	78,000	86,000
		22-Dec-95	Pilot test injection event into MW-11.	
		16-Feb-96	16,000	23,000
		14-Mar-96	Pilot test injection event into MW-11.	
		9-May-96	11,000	<50
		8-Apr-97	6,500	<5.0
		Apr-97	On-Site Remediation Injection Event	
		1-Oct-97	640	14
		2-Dec-97	510	<5.0
		Feb-98	On-Site Remediation Injection Event	
		23-Apr-98	500	9
		28-Jul-98	240	<500
		9-Oct-98	250	12
		2-Feb-99	77	<5.0 (d)
		Mar-99	On-Site Remediation Injection Event	
		25-Jun-99	240	<5.0
		20-Oct-99	200	<50
		17-Mar-00	88	<50
		13-Feb-01	29	<10
		11-Jul-01	**34**	**<10**

Table 5: Cumulative Groundwater-Sample Analytical Results
Total and Hexavalent Chromium
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Screened Interval	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L)
MW-13	10.5-15.5	14-Jan-81	381,000	325,000
		26-Feb-85	676,000	676,000
		11-Oct-91	510,000	430,000
		28-Jul-94	230,000	130,000
		20-Apr-95	210,000	220,000
		19-Sep-95	200,000	210,000
		15-Dec-95	170,000	210,000
		8-Mar-96	170,000	200,000
		11-Jun-96	170,000	160,000
		13-Sep-96	160,000	13,000
		11-Dec-96	160,000 (b)	170,000
		7-Apr-97	150,000	160,000
		Apr-97	On-Site Remediation Injection Event	
		30-Jun-97	92,000	69,000
		1-Oct-97	63,000	40,000
		2-Dec-97	33,000	28,000
		Feb-98	On-Site Remediation Injection Event	
		23-Apr-98	7,900	2,500
		28-Jul-98	1,800	<500
		9-Oct-98	1,800	<5.0
		2-Feb-99	370	<5.0 (d)
		Mar-99	On-Site Remediation Injection Event	
		25-Jun-99	2,500	<50.0
		20-Oct-99	1,900	<50
		16-Mar-00	178	<50
		13-Feb-01	110	<10
		11-Jul-01	**43**	**<10**

Table 5: Cumulative Groundwater-Sample Analytical Results
Total and Hexavalent Chromium
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Screened Interval	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L)
MW-14	15.0-25.0	26-Feb-85	654,000	632,000
		11-Oct-91	320,000	310,000
		21-Apr-95	130,000	140,000
		13-Sep-96	100,000	9,700
		8-Apr-97	93,000	100,000
		Apr-97	On-Site Remediation Injection Event	
		1-Oct-97	9,100	<5.0
		2-Dec-97	1,400	<5.0
		Feb-98	On-Site Remediation Injection Event	
		28-Jul-98	1,600	<500
		26-Oct-98	970	52
		2-Feb-99	480	<50 (c) (d)
		1-Mar-99	On-Site Remediation Injection Event	
		25-Jun-99	2,500	<50.0
		20-Oct-99	1,300	<250
		16-Mar-00	29	<50
		13-Feb-01	56	<10
		11-Jul-01	**40**	**<10**
MW-26	15.0-25.0	**11-Jul-01**	**31**	**30**
IW-01-01	15.0-25.0	**11-Jul-01**	**<10**	**<10**
IW-01-02	15.0-25.0	**12-Jul-01**	**24**	**<10**

Table 5: Cumulative Groundwater-Sample Analytical Results
Total and Hexavalent Chromium
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Screened Interval	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L)
MW-20 (deep well)	31.0-51.0	21-Jun-83	1,300	1,200
		11-Aug-83	90	40
		26-Feb-85	<20	<20
		11-Oct-91	<50	14
		21-Apr-95	<10	<5.0
		19-Sep-95	<10	<5.0
		15-Dec-95	22	<5.0
		8-Mar-96	22	<5.0
		11-Jun-96	96	<0.0050
		13-Sep-96	120	<5.0
		7-Apr-97	55	<5.0
		Apr-97	On-Site Remediation Injection Event	
		1-Oct-97	<10	<5.0
		Feb-98	On-Site Remediation Injection Event	
		23-Apr-98	<10	<5.0
		28-Jul-98	<10	<5.0
		3-Feb-99	<10	<5.0
		Mar-99	On-Site Remediation Injection Event	
		25-Jun-99	<10.0	<50.0
		21-Oct-99	<10	<5.0
		13-Feb-01	<10	<10
		11-Jul-01	**<10**	**<10**

Table 5: Cumulative Groundwater-Sample Analytical Results
Total and Hexavalent Chromium
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Screened Interval	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L)
MW-6	13.0-17.0	15-Sep-81	630	NA
		11-Oct-81	80	NA
		24-Nov-81	790	NA
		21-Dec-81	630	NA
		26-Feb-85	3,330	3,300
		11-Oct-91	31,000	25,000
		28-Jul-94	NA	4,800
		20-Apr-95	39,000	40,000
		19-Sep-95	45,000	43,000
		14-Dec-95	35,000	50,000
		8-Mar-96	42,000	50,000
		11-Jun-96	41,000	44,000
		13-Sep-96	46,000	44,000
		11-Dec-96	45,000 (b)	54,000
		8-Apr-97	45,000	48,000
		30-Jun-97	44,000	43,000
		1-Oct-97	52,000	21,000
		2-Dec-97	50,000	46,000
		23-Apr-98	47,000	48,000
		28-Jul-98	47,000	55,000
		9-Oct-98	36,000	330
		4-Feb-99	15,000	31,000
		25-Jun-99	17,000	1,400
		21-Oct-99	8,600	11,000
		17-Mar-00	8,800	418
		12-Feb-01	NS	NS
		12-Jul-01	**2,500**	**2,400**

Table 5: Cumulative Groundwater-Sample Analytical Results
Total and Hexavalent Chromium
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Screened Interval	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L)
MW-16	12.0-22.0	26-Feb-85	460,000	460,000
(a)		11-Oct-91	240,000	290,000
		28-Jul-94	120,000	320,000
		20-Apr-95	100,000	100,000
		19-Sep-95	83,000	87,000
		14-Dec-95	57,000	74,000
		8-Mar-96	73,000	83,000
		11-Jun-96	67,000	20,000
		13-Sep-96	60,000	6,400
		11-Dec-96	65,000 (b)	73,000
		8-Apr-97	57,000	64,000
		30-Jun-97	67,000	57,000
		1-Oct-97	67,000	27,000
		2-Dec-97	24,000	32,000
		23-Apr-98	56,000	54,000
		28-Jul-98	17,000	14,000
		9-Oct-98	29,000	2,400
		4-Feb-99	92,000	93,000
		25-Jun-99	94,000	5,690
		21-Oct-99	86,000	98,000
		17-Mar-00	86,000	<50
		12-Feb-01	60,000	47,000
		12-Jul-01	**110,000**	**70**
MW-17	10.0-20.0	26-Feb-85	90,000	38,200
		11-Oct-91	250,000	300,000
		28-Jul-94	190,000	200,000
		20-Apr-95	150,000	160,000
		19-Sep-95	170,000	180,000
		14-Dec-95	160,000	200,000
		8-Mar-96	140,000	150,000
		11-Jun-96	130,000	150,000
		13-Sep-96	130,000	12,000
		11-Dec-96	170,000 (b)	200,000
		8-Apr-97	160,000	160,000
		30-Jun-97	120,000	83,000
		1-Oct-97	91,000	52,000
		2-Dec-97	97,000	60,000
		23-Apr-98	85,000	10,000
		28-Jul-98	50,000	65,000
		9-Oct-98	60,000	420
		4-Feb-99	120,000	110,000
		25-Jun-99	110,000	5,290
		21-Oct-99	90,000	97,000
		16-Mar-00	24,800	<50
		12-Feb-01	110,000	93,000
		12-Jul-01	**170,000**	**170**

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Table 5: Cumulative Groundwater-Sample Analytical Results
Total and Hexavalent Chromium
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Screened Interval	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L)
MW-18	15.0-25.0	26-Feb-85	60,500	55,000
		1-Jun-91	NA	NA
		11-Oct-91	31,000	24,000
		28-Jul-94	NA	NA
		22-Apr-95	24,000	23,000
		19-Sep-95	25,000	27,000
		14-Dec-95	20,000	22,000
		8-Mar-96	22,000	23,000
		11-Jun-96	19,000	17,000
		30-Jun-97	16,000	11,000
		1-Oct-97	20,000	14,000
		24-Apr-98	11,000	9,400
		28-Jul-98	12,000	5,000
		4-Feb-99	16,000	50
		25-Jun-99	9,300	780
		21-Oct-99	7,900	9,400
		12-Feb-01	7,400	7,300
		12-Jul-01	**5,400**	**5,100**
MW-18A (deep well)	35.0-50.0	22-Jun-83	20	<20
		26-Feb-85	<20	<20
		11-Oct-91	<50	<10
		20-Apr-95	<10	<5.0
		19-Sep-95	<10	<5.0
		15-Dec-95	17	<5.0
		8-Mar-96	<50	<5.0
		11-Jun-96	38	<0.0050
		30-Jun-97	1,100	840
		1-Oct-97	490	430
		23-Apr-98	64	52
		28-Jul-98	59	55
		4-Feb-99	<10	50
		25-Jun-99	1,500	<5.00
		21-Oct-99	<10	<5.0
		12-Feb-01	<10	<10
		12-Jul-01	**<10**	**30**

Table 5: Cumulative Groundwater-Sample Analytical Results Total and Hexavalent Chromium

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Screened Interval	Date Sampled	Total Chromium (µg/L) (a)	Hexavalent Chromium (µg/L)
MW-2	14.0-21.0	24-Aug-77	60	NA
		15-Sep-81	<1	NA
		11-Oct-81	4	NA
		24-Nov-81	1.1	NA
		21-Dec-81	2	NA
		19-Apr-95	NL	
MW-7	10.0-13.0	19-Apr-95	NL	
MW-19	10.0-25.0	22-Jun-83	<20	<20
		26-Feb-85	20	20
		19-Apr-95	NL	
MW-21	10.0-25.0	21-Jun-83	20	<20
		26-Feb-85	40	<20
		19-Apr-95	NL	
DP-1	NA	20-Oct-95	10,000	6.1
		14-Mar-96	Pilot test injection event into DP-1.	

Total chromium analyzed using US EPA Method 200.7.
Analysis by USEPA Method 7196.

(a) Denotes well that was part of the pilot study performed from August 1995 through February 1996.
(b) Laboratory indicates results are questionable due to samples being marked "preserved" which were not.
(c) Laboratory reports detection limits raised due to matrix interference.
(d) Laboratory reports samples were analyzed past US EPA recommended holding time.

< Symbol indicates not detected at or above the laboratory detection limit as noted.
µg/L micrograms per liter
NA Not available
NL Not located by ARCADIS G&M
NS Not sampled

Data from August 1977 through July 1994 taken from groundwater monitoring reports by American Environmental Management Corporation (January 27, 1992, and October 28, 1994).
Beginning April 20, 1995, laboratory analyses performed by Sequoia Analytical (Walnut Creek and Redwood City, California).
Beginning February 12, 2001, laboratory analyses performed by Curtis & Tompkins Ltd., (Berkeley, California).

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-4	4-Nov-91	31	2,100	---	269	<5	10	<5	<5	---	---	---	---	---
(SI 16.0-20.0)	28-Jul-94	---	6,500	---	---	---	---	---	---	---	---	---	---	---
	21-Apr-95	<50	4,400	430	<50	<50	<100	<50	<50	<50	---	---	---	---
	19-Sep-95	65	3,500	590	92	<50	<100	<50	<50	<50	---	---	---	---
	15-Dec-95	27	2,900	330	44	<10	<20	<10	<10	<10	---	---	---	---
	8-Mar-96	84	3,100	360	<50	<50	<100	<50	<50	<50	---	---	---	---
	11-Jun-96	<100	3,100	280	<100	<100	<200	<100	<100	<100	---	---	---	---
	13-Sep-96	63	1,800	410	58	<50	<100	<50	<50	<50	---	---	---	---
	11-Dec-96	<50	1,600	260	<50	<50	<100	<50	<50	<50	---	---	---	---
	8-Apr-97	<50	4,000	410	<50	<50	<100	<50	<50	<50	---	---	---	---
	Apr-97	On-site Remediation Injection Event												
	30-Jun-97	<50	4,000	2,800	<50	<50	<100	<50	<50	<50	---	---	---	---
	1-Oct-97	<25	<25	1,300	45	<25	1,100	<25	<25	<25	---	---	---	---
	2-Dec-97	<25	120	320	29	<25	1,300	<25	<25	<25	---	---	---	---
	Feb-98	On-site Remediation Injection Event												
	19-May-98	Access blocked by construction activity at 1421 Park Avenue.												
	28-Jul-98	<1.0	1.2	17	13	<1.0	21	<1.0	<1.0	<1.0	---	---	---	---
	8-Oct-98	<0.50	1.6	7.4	16	<0.50	19	<0.50	<0.50	<0.50	---	---	---	---
	3-Feb-99	<0.50	0.59	1.5	34	<0.50	<1.0	<0.50	1.6	0.94	---	---	---	---
	Mar-99	On-site Remediation Injection Event												
	21-May-99	<5.0	<5.0	340	250	<5.0	480	<5.0	<5.0	<5.0	---	---	---	---
	21-Oct-99	<0.50	<0.50	4.3	3.9	<0.50	21	<0.50	<0.50	0.82	CA: 3.7; 1,2-DCBz:1.4; methylene chloride 7.7 (b)	---	---	---
	17-Mar-00	<2.50	41.1	82.6	6.3	<2.50	54	<2.50	<2.50	<2.50	1,2-DCBz:2.93	---	---	---
	13-Feb-01	<5.0	<5.0	1,700	37	<5.0	820	<5.0	<5.0	<5.0		---	---	---
	11-Jul-01	**<250**	**<250**	**7,500**	**<250**	**<250**	**1,200**	**<250**	**<250**	**<250**	---			

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-5	4-Nov-91	8.9	410	---	120	4.2	54	1.3	42	---	---	---	---	---
(SI 11.0-15.0)	21-Apr-95	10	210	31	13	<5	<10	<5	13	<5	---	---	---	---
	Apr-97	On-site Remediation Injection Event												
	30-Jun-97	14	190	32	20	<5.0	<10	<5.0	8.2	<5.0	---	---	---	---
	1-Oct-97	<2.5	36	210	19	<2.5	13	<2.5	9.1	2.7	---	---	---	---
	Feb-98	On-site Remediation Injection Event												
	19-May-98	<2.5	<2.5	7.1	11	<2.5	<2.5	<2.5	<2.5	<2.5	---	---	---	---
	28-Jul-98	<0.50	<0.50	3.1	5.0	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	9-Oct-98	<0.50	3.5	2.4	6.5	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	2-Feb-99	<0.50	0.52	3.1	7.4	<0.50	<1.0	<0.50	0.93	0.56	---	---	---	---
	Mar-99	On-site Remediation Injection Event												
	20-May-99	<2.5	3.4	2.9	5.7	<2.5	<5.0	<2.5	<2.5	<2.5	---	---	---	---
(d)	20-Oct-99	<25	<25	<25	<25	<25	<50	<25	<25	<25	methylene chloride 8.8 (b)	---	---	---
	16-Mar-00	<0.500	<0.500	4.16	3.67	<0.500	1.58	<0.500	0.608	<0.500	---	---	---	---
	13-Feb-01	<0.5	1.5	4.5	5	<0.5	4.6	<0.5	1.1	<0.5	---	---	---	---
	12-Jul-01	**<5.0**	**<5.0**	**8.1**	**<5.0**	**<5.0**	**11**	**<5.0**	**<5.0**	**<5.0**	---			

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-10	12-Jun-85	81	5,100	---	<50	<50	<50	<50	<50	---	---	---	---	---
(SI 17.5-24.5)	12-Jun-85	<50	12,000	---	600	<50	---	<50	<50	---	---	---	---	---
	7-Nov-91	<50	14,000	---	640	3,800	<100	6,500	<50	---	---	---	---	---
	21-Apr-95	<100	10,000	900	<100	1,200	<200	1,000	<100	<100	---	---	---	---
		Pilot Test: Spring 1995												
	8-Apr-97	<500	660	11,000	<500	680	<1000	<500	<500	<500	---	---	---	---
	Apr-97	On-site Remediation Injection Event									---			
	1-Oct-97	<120	<120	5,900	<120	260	500	<120	<120	<120	---	---	---	---
	2-Dec-97	<120	<120	6,600	<120	320	480	<120	<120	<120	---	---	---	---
	Feb-98	On-site Remediation Injection Event												
	24-Apr-98	---	---	---	---	---	---	---	---	---	---	2,363	1.70	238
	19-May-98	Access blocked by construction activity at 1421 Park Avenue.												
	28-Jul-98	<10	<10	390	17	<10	54	<10	<10	<10	---	---	---	---
	29-Jul-98	---	---	---	---	---	---	---	---	---	---	6,805	51.5	82.1
	9-Oct-98	<1.2	11	53	5.8	2.5	14	<1.2	3.4	1.3	---	8,550	129	53.5
	2-Feb-99	<0.50	3.9	6.4	<0.50	0.60	1.1	<0.50	<0.50	<0.50	---	---	---	---
	Mar-99	On-site Remediation Injection Event												
	21-May-99	<0.50	1.8	11	1.8	0.90	2.2	<0.50	2.6	0.66	CA: 10	---	---	---
(d)	20-Oct-99	<2.5	3.8	15	4.3	<2.5	<5.0	<2.5	11	<2.5	methylene chloride 7.4 (b)	---	---	---
	17-Mar-00	<0.500	4.36	2.16	<0.500	0.505	<1.00	<0.500	2.60	<0.500	---	---	---	---
	13-Feb-01	<0.5	3	0.9	<0.5	<0.5	<1.0	<0.5	2.4	<0.5	---	---	---	---
	11-Jul-01	**<5.0**	**12**	**6.8**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**7.1**	**<5.0**	---			

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-13	8-Nov-91	8.9	630	---	89	6.8	20	<5	15	---	---	---	---	---
(SI 10.5-15.5)	28-Jul-94	---	770	---	---	---	---	---	---	---	---	---	---	---
	20-Apr-95	8.9	360	70	16	<5	20	<5	14	<5	---	---	---	---
	19-Sep-95	12.0	240	72	25	<5	42	<5	18	<5	---	---	---	---
	15-Dec-95	<10	380	68	17	<10	<20	<10	<10	<10	---	---	---	---
	8-Mar-96	<50	270	68	<50	<50	<100	<50	<50	<50	---	---	---	---
	11-Jun-96	<50	250	<50	<50	<50	<100	<50	<50	<50	---	---	---	---
	13-Sep-96	<50	430	84	<50	<50	<100	<50	<50	<50	---	---	---	---
	11-Dec-96	<50	250	56	<50	<50	<100	<50	<50	<50	---	---	---	---
	7-Apr-97	<50	280	62	<50	<50	<100	<50	<50	<50	---	---	---	---
	Apr-97	On-site Remediation Injection Event												
	30-Jun-97	12	300	61	25	<5.0	30	<5.0	15	<5.0	---	---	---	---
	1-Oct-97	15	250	100	24	<5.0	25	<5.0	13	<5.0	---	---	---	---
	2-Dec-97	5.5	140	150	22	<2.5	35	<2.5	11	2.9	---	---	---	---
	Feb-98	On-site Remediation Injection Event												
	19-May-98	<0.50	1.2	29	4.4	<0.5	3.4	<0.5	6.1	0.67	---	---	---	---
	28-Jul-98	<0.50	9.3	9	3.2	<0.5	4.4	<0.5	3.1	0.90	CA: 2.2	---	---	---
	29-Jul-98	---	---	---	---	---	---	---	---	---	---	7,935	0.214	2.70
	9-Oct-98	<0.50	4.4	2.7	3.9	<0.50	1.3	<0.50	0.96	<0.50	---	10,700	1.87	2.98
	2-Feb-99	<0.50	<0.50	0.55	0.96	<0.50	<1.0	<0.50	2.5	<0.50	---	---	---	---
	Mar-99	On-site Remediation Injection Event												
	20-May-99	<2.5	4.9	2.7	<2.5	<2.5	<5.0	<2.5	6.1	<2.5	---	---	---	---
(d)	20-Oct-99	<25	<25	<25	<25	<25	<50	<25	<25	<25	methylene chloride 6.3 (b)	---	---	---
	16-Mar-00	<0.500	<0.500	0.663	1.63	<0.500	<1.00	<0.500	5.88	<0.500	---	---	---	---
	12-Feb-01	<0.5	<0.5	1.1	5.1	<0.5	1.3	<0.5	5.7	0.9	Chloroethane 2.9	---	---	---
	11-Jul-01	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**Chloroethane 2.9**			

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-14	21-Mar-85	26	580	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
(SI 15.0-25.0)	11-Nov-91	13	4,300	---	150	13	30	17	19	---	---	---	---	---
	21-Apr-95	<10	8,100	36	<10	<10	<20	<10	<10	<10	---	---	---	---
	13-Sep-96	<1000	4,700	<1000	<1000	<1000	<2000	<1000	<1000	<1000	---	---	---	---
	8-Apr-97	<500	17,000	<500	<500	<500	<1000	<500	<500	<500	---	---	---	---
	Apr-97	On-site Remediation Injection Event												
	1-Oct-97	<25	2,200	2,100	<25	<25	<50	<25	<25	<25	---	---	---	---
	2-Dec-97	<25	680	1,200	<25	<25	110	<25	<25	<25	---	---	---	---
	Feb-98	On-site Remediation Injection Event												
	19-May-98	<13	1,800	4,600	39	13	860	<13	<13	<13	---	---	---	---
	28-Jul-98	<100	1,500	5,100	<100	<100	1,200	<100	<100	<100	---	---	---	---
	29-Jul-98	---	---	---	---	---	---	---	---	---	---	2,846	20.4	98.9
	26-Oct-98	<0.50	<0.50	350	13	<0.50	<50	<0.50	<0.50	<0.50	---	10,700	1.87	2.98
	2-Feb-99	<0.50	0.81	6.0	7.2	<0.50	3.0	<0.50	<0.50	<0.50	---	---	---	---
	Mar-99	On-site Remediation Injection Event												
	21-May-99	<0.50	350	550	12	<0.50	160	<0.50	<0.50	<0.50	---	---	---	---
(d)	20-Oct-99	<25	230	600	<25	<25	<50	<25	<25	<25	methylene chloride 15 (b)	---	---	---
	16-Mar-00	<5.00	267	203	7.66	<5.00	55.3	<5.00	<5.00	<5.00	chloroform 7.53	---	---	---
	13-Feb-01	<0.5	1.7	8.3	0.5	<0.5	2.2	<0.5	<0.5	<0.5		---	---	---
	11-Jul-01	**<5.0**	**7.7**	**13**	**<5.0**	**<5.0**	**15**	**<5.0**	**<5.0**	**<5.0**	**Carbon Disulfide; 7.3**			
MW-26	**11-Jul-01**	**<5.0**	**<5.0**	**15**	**6**	**<5.0**	**18**	**<5.0**	**<5.0**	**<5.0**				
IW-01-01	**11-Jul-01**	**<130**	**1,800**	**2,800**	**<130**	**<130**	**1,100**	**<130**	**150**	**<130**				
IW-01-02	**11-Jul-01**	**<36**	**<36**	**290**	**<36**	**<36**	**480**	**<36**	**38**	**<36**				

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-20	15-Nov-91	<0.5	<0.5	---	<0.5	<0.5	<1	<0.5	<0.5	---	---	---	---	---
(deep well)	21-Apr-95	<0.5	4	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---	---	---	---
(SI 31.0-51.0)	19-Sep-95	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---	---	---	---
	15-Dec-95	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	11-Jun-96	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	13-Sep-96	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	7-Apr-97	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	Apr-97	On-site Remediation Injection Event												
	1-Oct-97	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	Feb-98	On-site Remediation Injection Event												
	19-May-98	Access blocked by construction activity at 1421 Park Avenue.												
	28-Jul-98	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	3-Feb-98	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	MC: 6.8	---	---	---
	Mar-99	On-site Remediation Injection Event												
	21-May-99	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	21-Oct-99	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	methylene chloride 8.3 (b)	---	---	---
	13-Feb-01	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5		---	---	---
	11-Jul-01	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**				

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-6	11-Jun-85	<0.5	220	---	54	<5	<5	3.9	<5	---	---	---	---	---
(SI 13.0-17.0)	5-Nov-91	5.9	420	---	78	29	19	6.4	<0.5	---	---	---	---	---
	28-Jul-94	---	790	---	---	---	---	---	---	---	---	---	---	---
	20-Apr-95	<10	320	55	<10	34	<20	<10	<10	<10	---	---	---	---
	19-Sep-95	6.4	210	48	12	46	13	<5	<5	<5	CBz: 5.1	---	---	---
	14-Dec-95	<10	400	53	<10	74	<20	<10	<10	<10	---	---	---	---
	8-Mar-96	<50	290	<50	<50	<50	<100	<50	<50	<50	---	---	---	---
	11-Jun-96	<50	300	<50	<50	<50	<100	<50	<50	<50	---	---	---	---
	13-Sep-96	<50	480	<50	<50	64	<100	<50	<50	<50	---	---	---	---
	11-Dec-96	<50	360	<50	<50	59	<100	<50	<50	<50	---	---	---	---
	8-Apr-97	<50	420	52	<50	73	<100	<50	<50	<50	---	---	---	---
	30-Jun-97	8.1	330	47	11	51	12	<5.0	<5.0	<5.0	CBz: 8.9	---	---	---
	1-Oct-97	6.2	220	49	9.7	37	13	2.6	<2.5	<2.5	CBz: 6.6	---	---	---
	2-Dec-97	6.4	260	44	7.6	43	<10	<5.0	<5.0	<5.0	CBz: 6.7	---	---	---
	19-May-98	4.3	330	45	12	50	13	4.6	1.3	1.4	1,2-DCBz: 0.56; CBz: 4.8; CFM: 1.4	---	---	---
	28-Jul-98	<5.0	200	59	7.0	24	<10	<5.0	<5.0	<5.0	---	---	---	---
	9-Oct-98	<5.0	200	42	6.8	23	<10	<5.0	<5.0	<5.0	---	---	---	---
	4-Feb-99	10.0	230	5.7	5.3	21	<10	<5.0	<5.0	<5.0	CBz: 5.9	---	---	---
	21-May-99	1.2	16	5.2	0.52	1.4	<10	<5.0	<5.0	<5.0	---	---	---	---
	21-Oct-99	5.5	110	15	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5	methylene chloride 46 (b)	---	---	---
	17-Mar-00	11.1	90.3	27.3	2.70	6.00	<5.00	<2.50	<2.50	<2.50	---	---	---	---
	13-Feb-01	NS	NS	NS	NS	NS	NS	NS	NS	NS	---	---	---	---
	12-Jul-01	**14**	**97**	**<5.0**	**<5.0**	**32**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	---			

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-16	21-Mar-85	42	360	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
(SI 12.0-22.0)	19-Nov-91	<5	19,000	---	2299	1,200	420	1,300	<5	---	---	---	---	---
	28-Jul-94	---	22,000	---	---	---	---	---	---	---	---	---	---	---
	20-Apr-95	13	10,000	2,400	67	390	300	180	28	<10	CBz: 12	---	---	---
	19-Sep-95	<125	7,800	2,500	190	590	730	190	<125	<125	---	---	---	---
	14-Dec-95	<0.50	11,000	2,300	100	620	460	140	26	<0.50	---	---	---	---
	8-Mar-96	<200	9,900	2,400	<200	460	<400	<200	<200	<200	---	---	---	---
	11-Jun-96	<200	9,700	2,100	<200	<200	440	<200	<200	<200	---	---	---	---
	13-Sep-96	<1000	11,000	2,200	<1000	<1000	<2000	<1000	<1000	<1000	---	---	---	---
	11-Dec-96	<1000	11,000	2,900	<1000	<1000	<2000	<1000	<1000	<1000	---	---	---	---
	8-Apr-97	<1000	15,000	2,900	<1000	<1000	<2000	<1000	<1000	<1000	---	---	---	---
	30-Jun-97	<500	24,000	4,100	<500	780	<1000	<500	<500	<500	---	---	---	---
	1-Oct-97	<120	11,000	2,200	<120	350	410	<120	<120	<120	---	---	---	---
	2-Dec-97	<100	5,300	1,100	<100	160	<200	<100	<100	<100	---	---	---	---
	22-Apr-98	---	---	---	---	---	---	---	---	---	---	92.7	0.830	5.3
	19-May-98	4.5	3,900	1,800	40	230	160	39	9.3	1.9	---	---	---	---
	28-Jul-98	<100	4,500	2,600	<100	270	<200	<100	<100	<100	---	---	---	---
	29-Jul-98	---	---	---	---	---	---	---	---	---	---	199	4.95	31.5
	9-Oct-98	<100	2,700	1,400	<100	<100	<200	<100	<100	<100	---	410	6.06	30.4
	4-Feb-99	<25	7,500	2,200	80	660	<50	<25	<25	<25	---	---	---	---
	21-May-99	13	7,600	2,000	110	620	430	110	38	<5.0	---	---	---	---
	21-Oct-99	<130	11,000	1,800	<130	1,200	900	<130	<130	<130	methylene chloride 8.0 (b)	---	---	---
	17-Mar-00	<100	7,630	2,230	<100	690	487	<100	<100	<100	---	---	---	---
	12-Feb-01	<25	5,500	2,300	72	430	640	28	56	<25	---	---	---	---
	12-Jul-01	**<170**	**5,000**	**1,400**	**<170**	**380**	**820**	**<170**	**<170**	**<170**	---			

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-17	13-Jun-85	18	200	---	23	46	<5	22	<5	---	---	---	---	---
(SI 10.0-20.0)	19-Nov-91	8.9	460	---	54	54	420	30	7.8	---	---	---	---	---
	28-Jul-95	---	780	---	---	---	---	---	---	---	---	---	---	---
	20-Apr-95	<10	410	42	11	37	<20	<10	<10	<10	1,2-DCBz: 17; CBz: 31	---	---	---
	19-Sep-95	9.8	260	50	23	42	<10	11	<5	<5	1,2-DCBz: 28; CBz: 52	---	---	---
	14-Dec-95	13	360	24	<10	38	<20	<10	<10	<10	1,2-DCBz: 15; CBz: 27	---	---	---
	8-Mar-96	<0.50	310	<0.50	<0.50	<0.50	<100	<0.50	<0.50	<0.50	---	---	---	---
	11-Jun-96	<0.50	270	<0.50	<0.50	<0.50	<100	<0.50	<0.50	<0.50	---	---	---	---
	13-Sep-96	<200	1,900	<200	<200	410	<400	<200	<200	<200	---	---	---	---
	11-Dec-96	<200	450	<200	<200	<200	<400	<200	<200	<200	---	---	---	---
	8-Apr-97	<200	350	<200	<200	<200	<400	<200	<200	<200	---	---	---	---
	30-Jun-97	6.3	260	27	11	20	<10	<5.0	<5.0	<5.0	1,2-DCBz: 16; CBz: 28	---	---	---
	1-Oct-97	11	250	29	11	15	<1.0	<0.50	<0.50	<0.50	1,2-DCBz: 14; CBz: 23	---	---	---
	2-Dec-97	4.1	140	17	4.9	12	<5.0	<2.5	<2.5	<2.5	1,2-DCBz: 9.5; CBz: 14	---	---	---
(h)	19-May-98	5.0	180	13	6.0	15	2.0	1.7	0.99	0.60	1,2-DCBz: 5.6; CBz: 7.7; CFM: 1.4	---	---	---
	28-Jul-98	<5.0	170	17	<5.0	11	<10	<5.0	<5.0	<5.0	1,2-DCBz: 6.4; CBz: 9.3	---	---	---
	29-Jul-98	---	---	---	---	---	---	---	---	---	---	93.2	4.19	0.996
	8-Oct-98	<2.5	110	13	3.3	7.1	<5.0	<2.5	<2.5	<2.5	1,2-DCBz: 4.8; CBz: 5.0	115	9.37	0.211
	4-Feb-99	<2.5	220	21	4.7	21	<5.0	<2.5	<2.5	<2.5	CBz: 11	---	---	---
	21-May-99	6.4	220	27	11	28	7.1	<2.5	<2.5	<2.5	CBz: 14; 1,2-DCBz: 11	---	---	---
	21-Oct-99	4.2	220	16	12	<2.5	10	<2.5	<2.5	<2.5	1,2-DCBz: 5.0; methylene chloride 5.7 (b)	---	---	---
	16-Mar-00	ND (<10.0)	226	23.6	ND (<10.0)	15	ND (<20.0)	<10.0	<10.0	<10.0	1,2-DCBz: 10.9; CBz: 11.2	---	---	---
	12-Feb-01	5.6	260	39	4.6	15	ND (<2.0)	1.4	1.7	1.8	1,2-DCBz: 8.9; 1,4-DCBz: 1.3; CBz: 17	---	---	---
	12-Jul-01	**7.3**	**270**	**46**	**14**	**12**	**11**	**<5.0**	**<5.0**	**<5.0**	**1,2-DCBz: 8.4, CBz: 21**			

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-18	12-Jun-85	32	430	---	140	<0.5	<0.5	52	<0.5	---	---	---	---	---
(SI 15.0-25.0)	12-Jun-85	<50	340	---	<50	<50	---	66	<50	---	---	---	---	---
	19-Nov-91	11	560	---	160	<5	30	23	<5	---	---	---	---	---
	22-Apr-95	<10	330	35	13	<10	<20	16	<10	<10	---	---	---	---
	19-Sep-95	14	200	34	20	<5	<10	16	<5	<5	---	---	---	---
	14-Dec-95	<10	280	18	<10	<10	<20	<10	<10	<10	---	---	---	---
	8-Mar-96	<50	200	<50	<50	<50	<100	<50	<50	<50	---	---	---	---
	11-Jun-96	<50	200	<50	<50	<50	<100	<50	<50	<50	---	---	---	---
	30-Jun-97	9.0	210	21	12	<5.0	<10	8.6	<5.0	<5.0	---	---	---	---
	1-Oct-97	11	200	25	13	<2.5	<5.0	9.3	<2.5	<2.5	---	---	---	---
	19-May-98	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	28-Jul-98	6.7	190	13	<5.0	23	<10	6.2	<5.0	<5.0	---	---	---	---
	4-Feb-99	7.5	180	24	13	3	3.7	6.8	<2.5	<2.5	---	---	---	---
	20-May-99	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	21-Oct-99	<2.5	120	13	14	<2.5	<5.0	<2.5	<2.5	<2.5	methylene chloride 7.1 (b)	---	---	---
	12-Feb-01	8.2	150	35	13	2.4	5.6	4.1	1.6	1.2		---	---	---
	12-Jul-01	**6.4**	**130**	**26**	**9.3**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**				

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-18A	13-Jun-85	<0.5	10	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
(SI 35.0-50.0)	19-Nov-91	<0.5	<0.5	---	<0.5	<0.5	<1	<0.5	<0.5	---	---	---	---	---
	20-Apr-95	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---	---	---	---
	19-Sep-95	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---	---	---	---
	15-Dec-95	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	8-Mar-96	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	11-Jun-96	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	30-Jun-97	<0.50	4.5	0.54	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	1-Oct-97	<0.50	3.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	CFM: 1.5	---	---	---
	28-Jul-98	<0.50	1.1	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	4-Feb-99	<0.50	18	2.7	<0.50	0.92	<1.0	<0.50	<0.50	<0.50	---	---	---	---
	20-May-99	8.5	190	26	14	3.3	7.3	6.1	1.4	1.3	---	---	---	---
	21-Oct-99	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	methylene chloride 10 (b)	---	---	---
	12-Feb-01	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5		---	---	---
	12-Jul-01	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**				

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)
MW-2 (SI 14.0-21.0)	15-Nov-91	NL												
MW-7 (SI 10.0-13.0)	19-Apr-95	NL												
MW-99	18-Sep-00	<0.5	1.3	41	10	52	34	<0.5	28	2.5	chloroethane 1.7	---	---	---
MW-100	18-Sep-00	4.1	11	5.2	2.6	0.95	2.7	<0.5	2.7	1.1	chloroethane 0.72	---	---	---
MW-101	18-Sep-00	<2.5	7.9	110	14	<2.5	48	<2.5	5.5	<2.5		---	---	---
TB-LB	2-Dec-97	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50		---	---	---
	19-May-98	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50		---	---	---
	16-Mar-00	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500		---	---	---
	17-Mar-00	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500		---	---	---

Halogenated Volatile Organic Compounds analyzed using US EPA Method 8010.

(a) Denotes well that was part of the pilot study performed from August 1995 through February 1996.
(b) Laboratory reports methylene chloride is a suspected laboratory contaminant.
(c) Laboratory reports reporting limit for the sample has been raised due to the foamy nature.
(d) Laboratory reports reporting limit has been raised due to the foamy nature of the sample.

PCE Tetrachloroethylene
TCE Trichloroethylene
cis-1,2-DCE cis-1,2-Dichloroethylene
trans-1,2-DCE trans-1,2-Dichloroethylene
1,1-DCE 1,1-Dichloroethylene
1,1,1-TCA 1,1,1-Trichloroethane
1,1-DCA 1,1-Dichloroethane
1,2-DCA 1,2-Dichloroethane
CBz Clorobenzene
1,2-DCBz 1,2-Dichlorobenzene
1,4-DCBz 1,4-Dichlorobenzene
CFM Chloroform
CA Chloroethane
< Symbol indicates not detected at or above the laboratory methed detection limit as noted.
TB-LB Trip blank-laboratory blank

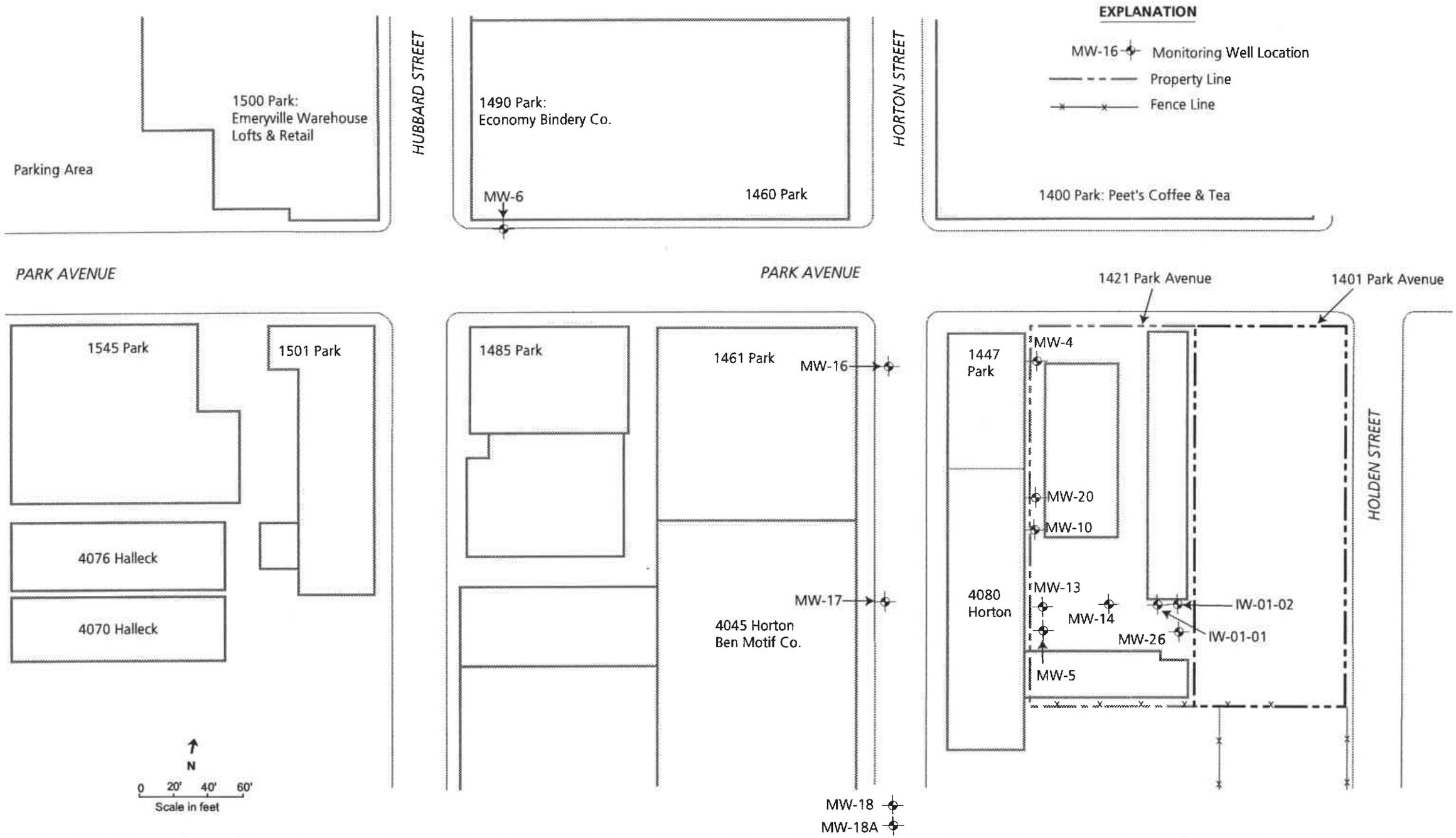
Our Ref:
ECI\Emeryville\Tables\HVOCs.xls

Table 6: Cumulative Groundwater-Sample Analytical Results–Halogenated Volatile Organic Compounds
Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

Monitoring Well	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	Other Analytes (µg/L)	Methane (µg/L)	Ethane (µg/L)	Ethylene (µg/L)

µg/L Micrograms per liter
--- Not analyzed
NL Not located
SI Screened interval
NA Not sampled

Data from August 1977 through July 1994 taken from groundwater monitoring reports by American Environmental Management Corporation (January 27, 1992, and October 28, 1994).
Beginning April 20, 1995, laboratory analyses performed by Sequoia Analytical (Walnut Creek and Redwood City, California).
Beginning February 12, 2001, laboratory analyses performed by Curtis & Tompkins Ltd., (Berkeley, California).
Methane, ethane, and ethylene analyses performed by Microseeps (Pittsburgh, Pennsylvania).



ARCADIS G&M

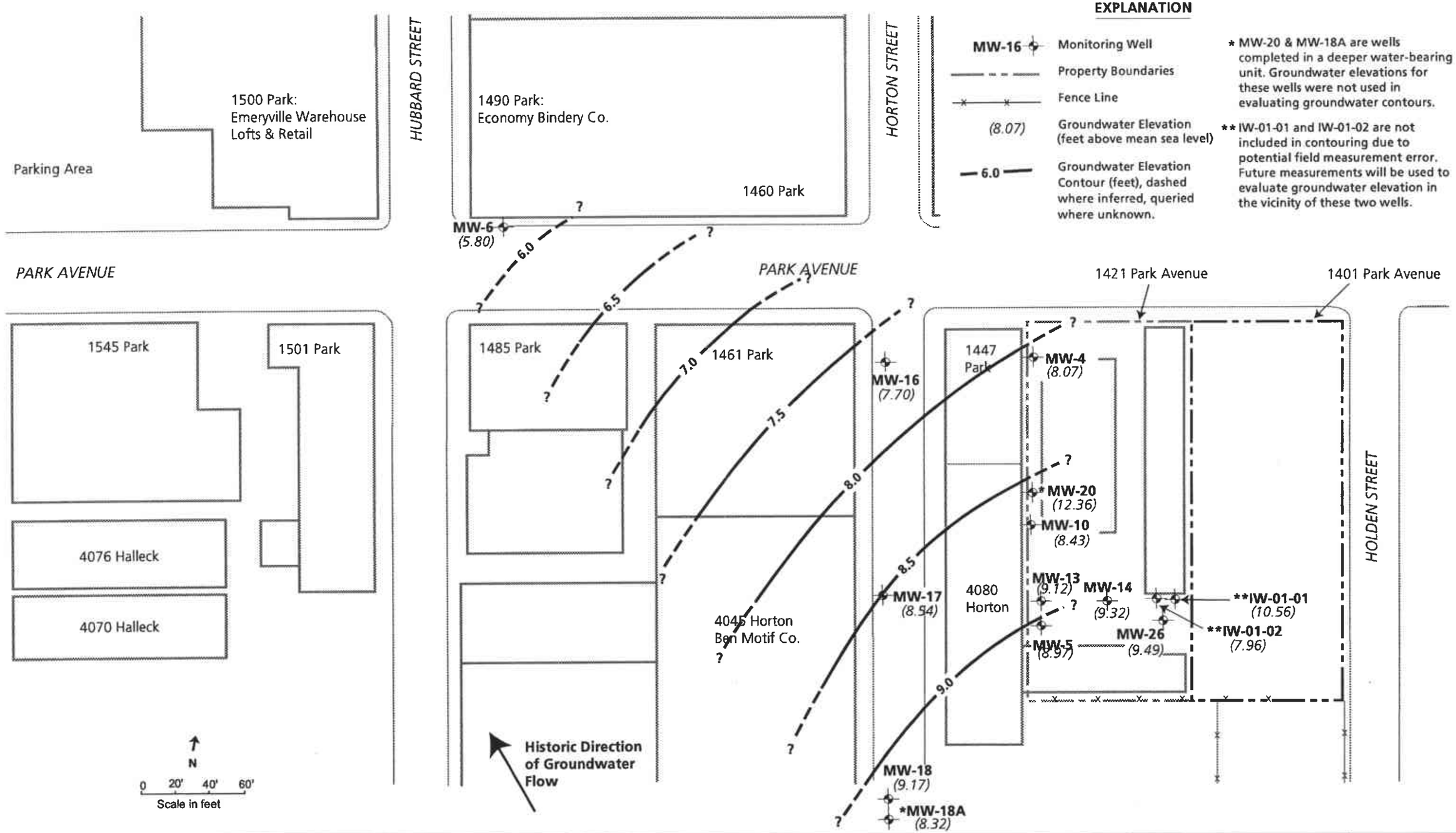
SITE PLAN

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

RC000549.0001

FIGURE

1



ARCADIS G&M

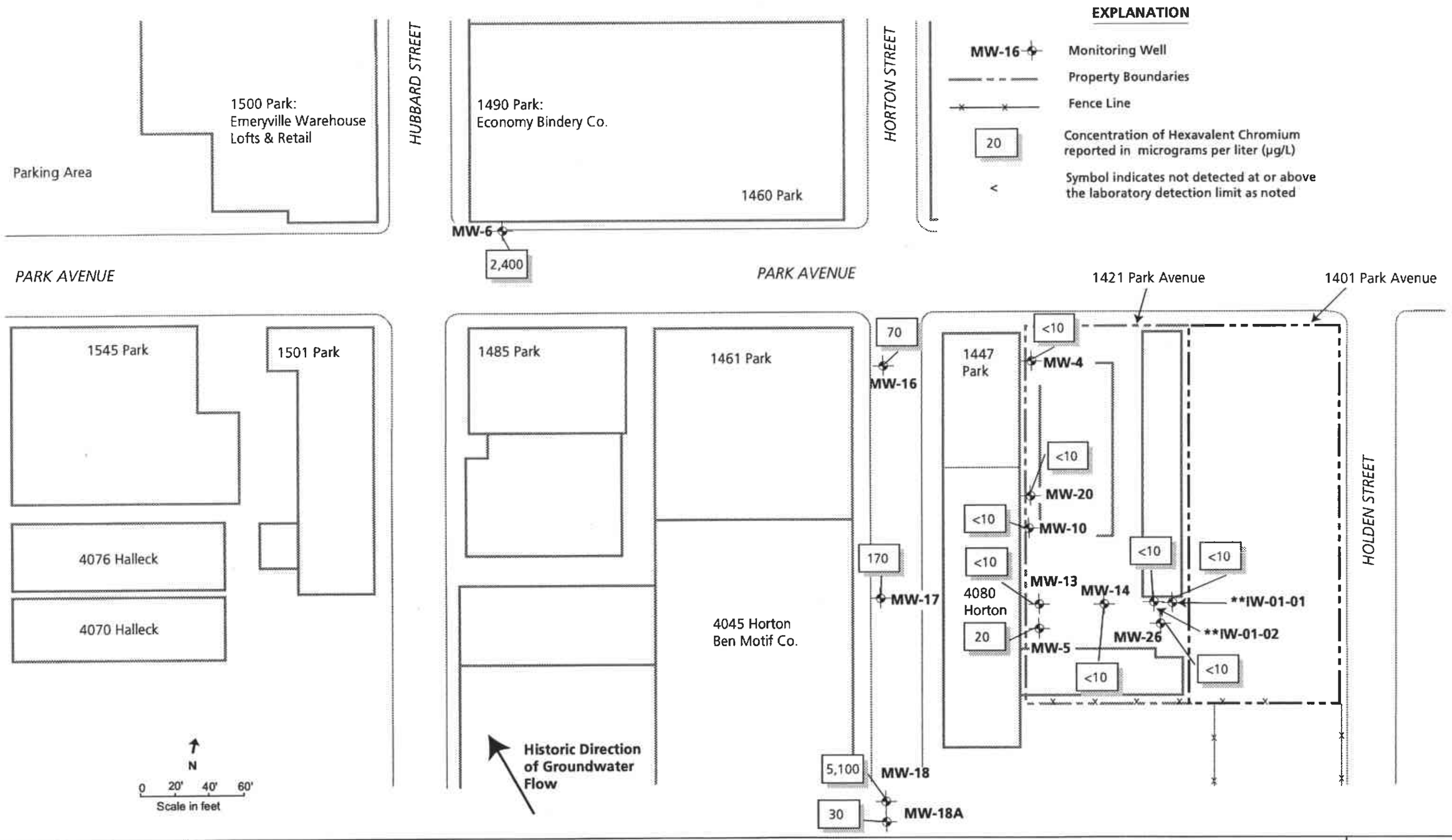
SITE PLAN WITH GROUNDWATER ELEVATION CONTOURS (JULY 2001)

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

RC000549.0001

FIGURE

2



ARCADIS G&M

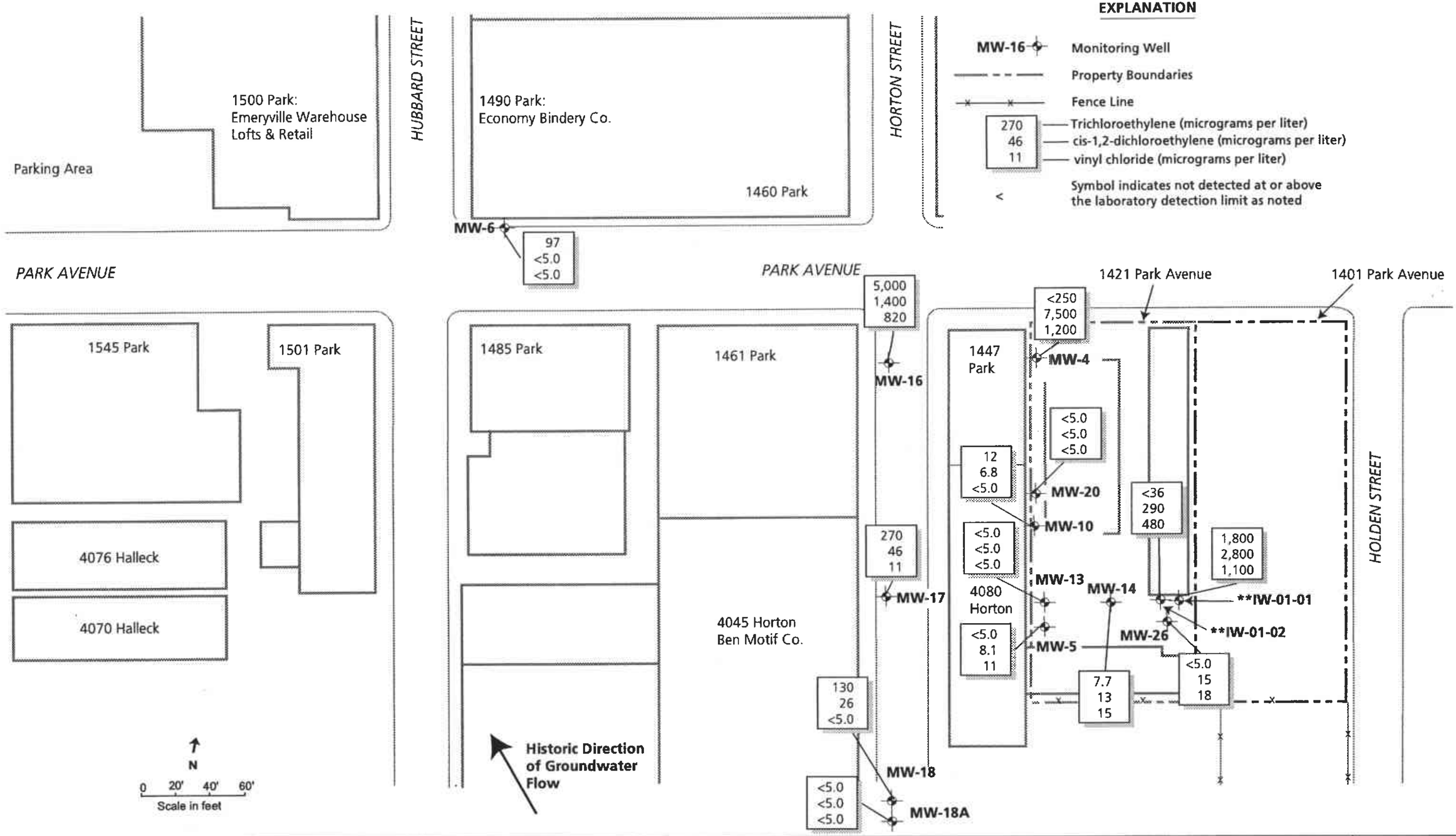
SITE PLAN WITH HEXAVALENT CHROMIUM CONCENTRATIONS (JULY 2001)

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

RC000549.0001

FIGURE

3



SITE PLAN WITH TRICHLOROETHYLENE, CIS-1,2-DICHLOROETHYLENE, AND VINYL CHLORIDE CONCENTRATIONS (JULY 2001)

Former Electro-Coatings, Inc. Facility
1421 Park Avenue
Emeryville, California

ARCADIS G&M

RC000549.0001

FIGURE

4

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

A N A L Y T I C A L R E P O R T

Prepared for:

Arcadis G&M
1050 Marina Way South
Richmond, CA 94804

Date: 03-AUG-01
Lab Job Number: 153006
Project ID: N/A
Location: Electro Coating

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: Paul Prendergast
Project Manager

Reviewed by: _____
Operations Manager

Curtis & Tompkins, Ltd.

Laboratory Number: **153006**
Client: **Arcadis G&M**
Project Name: **Electro-Coatings, Inc.**
Receipt Date: **07/12/01**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for six water samples received from the above referenced project on July 12, 2001. The samples were received cold and intact.

Hexavalent chromium was detected in sample MW-18A (Lab ID 153006-006) at a concentration of 0.03 mg/L, while in the same sample no total chromium was detected at or above our reporting limit of 0.01 mg/L (10 ug/L). This apparent discrepancy could be caused by differences in the individual aliquots used for analysis, inherent margins of error associated with the procedures, or positive or negative interferences in one or both of the methods. In the case of these two methods, it is much more likely that there is a positive interference in the hexavalent chromium analysis causing a high bias in that result.

Volatile Organic Compounds (EPA 8260B):

The concentration of trichloroethene in the matrix spike and its duplicate rendered the spike amount insignificant. The associated blank spike and its duplicate were acceptable so the quality of the sample data should not be affected. No other analytical problems were encountered.

Metals (EPA 6010B/7196):

The recoveries and the relative percent difference for the matrix spike and its duplicate for batch number 64939 were outside the acceptable QC limits. The associated laboratory control sample was acceptable so the quality of the sample data should not be affected. No other analytical problems were encountered.

BLAINE TECH SERVICES, INC.

GMR

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB Curtis & Tompkins | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION
☐ LIA
☐ OTHER

CHAIN OF | BTS #

CLIENT: Arcadis Garaghty & Miller

SITE: Electro-Coatings, Inc.
1401 Park Ave.
Emeryville, CA

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis Garaghty Miller
Attn: Gene Ng
* 24 hour hold time

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	Total Chromium	Hexavalent Chromium *	VOC's 8260	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-5	7/12/01	955	W	5		X	X	X				
MW-6		1035				X	X	X				
MW-16		1220				X	X	X				
MW-17		1250				X	X	X				
MW-18		1135				X	X	X				
MW-18A		1125				X	X	X				

Received ☐ On Ice ☐ Cold ☐ Ambient ☐ Intact

Preservation Correct? ☐ Yes ☐ No ☐ N/A

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	7/12/01	1345	Jeremy Burns

RESULTS NEEDED NO LATER THAN: Confirm with AG&M

RELEASED BY		DATE	TIME	RECEIVED BY	DATE / TIME
		7/12/01	345 PM		
RELEASED BY		DATE	TIME	RECEIVED BY	DATE / TIME
RELEASED BY		DATE	TIME	RECEIVED BY	DATE / TIME
					7/12/01 3:45

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-5	Diln Fac:	1.000
Lab ID:	153006-001	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Freon 12	ND	10	65244	07/25/01
Chloromethane	ND	10	65244	07/25/01
Vinyl Chloride	11	10	65244	07/25/01
Bromomethane	ND	10	65244	07/25/01
Chloroethane	ND	10	65244	07/25/01
Trichlorofluoromethane	ND	5.0	65244	07/25/01
Acetone	ND	20	65244	07/25/01
Freon 113	ND	5.0	65244	07/25/01
1,1-Dichloroethene	ND	5.0	65244	07/25/01
Methylene Chloride	ND	20	65244	07/25/01
Carbon Disulfide	ND	5.0	65268	07/26/01
MTBE	ND	5.0	65244	07/25/01
trans-1,2-Dichloroethene	ND	5.0	65244	07/25/01
Vinyl Acetate	ND	50	65244	07/25/01
1,1-Dichloroethane	ND	5.0	65244	07/25/01
2-Butanone	ND	10	65244	07/25/01
cis-1,2-Dichloroethene	8.1	5.0	65244	07/25/01
2,2-Dichloropropane	ND	5.0	65244	07/25/01
Chloroform	ND	5.0	65244	07/25/01
Bromochloromethane	ND	10	65244	07/25/01
1,1,1-Trichloroethane	ND	5.0	65244	07/25/01
1,1-Dichloropropene	ND	5.0	65244	07/25/01
Carbon Tetrachloride	ND	5.0	65244	07/25/01
1,2-Dichloroethane	ND	5.0	65244	07/25/01
Benzene	ND	5.0	65244	07/25/01
Trichloroethene	ND	5.0	65244	07/25/01
1,2-Dichloropropane	ND	5.0	65244	07/25/01
Bromodichloromethane	ND	5.0	65244	07/25/01
Dibromomethane	ND	5.0	65244	07/25/01
4-Methyl-2-Pentanone	ND	10	65244	07/25/01
cis-1,3-Dichloropropene	ND	5.0	65244	07/25/01
Toluene	ND	5.0	65244	07/25/01
trans-1,3-Dichloropropene	ND	5.0	65244	07/25/01
1,1,2-Trichloroethane	ND	5.0	65244	07/25/01
2-Hexanone	ND	10	65244	07/25/01
1,3-Dichloropropane	ND	5.0	65244	07/25/01
Tetrachloroethene	ND	5.0	65244	07/25/01
Dibromochloromethane	ND	5.0	65244	07/25/01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-5	Diln Fac:	1.000
Lab ID:	153006-001	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
1,2-Dibromoethane	ND	5.0	65244	07/25/01
Chlorobenzene	ND	5.0	65244	07/25/01
1,1,1,2-Tetrachloroethane	ND	5.0	65244	07/25/01
Ethylbenzene	ND	5.0	65244	07/25/01
m,p-Xylenes	ND	5.0	65244	07/25/01
o-Xylene	ND	5.0	65244	07/25/01
Styrene	ND	5.0	65244	07/25/01
Bromoform	ND	5.0	65244	07/25/01
Isopropylbenzene	ND	5.0	65244	07/25/01
1,1,2,2-Tetrachloroethane	ND	5.0	65244	07/25/01
1,2,3-Trichloropropane	ND	5.0	65244	07/25/01
Propylbenzene	ND	5.0	65244	07/25/01
Bromobenzene	ND	5.0	65244	07/25/01
1,3,5-Trimethylbenzene	ND	5.0	65244	07/25/01
2-Chlorotoluene	ND	5.0	65244	07/25/01
4-Chlorotoluene	ND	5.0	65244	07/25/01
tert-Butylbenzene	ND	5.0	65244	07/25/01
1,2,4-Trimethylbenzene	ND	5.0	65244	07/25/01
sec-Butylbenzene	ND	5.0	65244	07/25/01
para-Isopropyl Toluene	ND	5.0	65244	07/25/01
1,3-Dichlorobenzene	ND	5.0	65244	07/25/01
1,4-Dichlorobenzene	ND	5.0	65244	07/25/01
n-Butylbenzene	ND	5.0	65244	07/25/01
1,2-Dichlorobenzene	ND	5.0	65244	07/25/01
1,2-Dibromo-3-Chloropropane	ND	5.0	65244	07/25/01
1,2,4-Trichlorobenzene	ND	5.0	65244	07/25/01
Hexachlorobutadiene	ND	5.0	65244	07/25/01
Naphthalene	ND	5.0	65244	07/25/01
1,2,3-Trichlorobenzene	ND	5.0	65244	07/25/01

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	106	80-122	65244	07/25/01
1,2-Dichloroethane-d4	117	78-123	65244	07/25/01
Toluene-d8	97	80-110	65244	07/25/01
Bromofluorobenzene	101	80-115	65244	07/25/01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-6	Batch#:	65244
Lab ID:	153006-002	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	ug/L	Analyzed:	07/25/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	32	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	97	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	14	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-6	Batch#:	65244
Lab ID:	153006-002	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	ug/L	Analyzed:	07/25/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-122
1,2-Dichloroethane-d4	117	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	103	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-16	Batch#:	65244
Lab ID:	153006-003	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	ug/L	Analyzed:	07/26/01
Diln Fac:	33.33		

Analyte	Result	RL
Freon 12	ND	330
Chloromethane	ND	330
Vinyl Chloride	820	330
Bromomethane	ND	330
Chloroethane	ND	330
Trichlorofluoromethane	ND	170
Acetone	ND	670
Freon 113	ND	170
1,1-Dichloroethene	380	170
Methylene Chloride	ND	670
Carbon Disulfide	ND	170
MTBE	ND	170
trans-1,2-Dichloroethene	ND	170
Vinyl Acetate	ND	1,700
1,1-Dichloroethane	ND	170
2-Butanone	ND	330
cis-1,2-Dichloroethene	1,400	170
2,2-Dichloropropane	ND	170
Chloroform	ND	170
Bromochloromethane	ND	330
1,1,1-Trichloroethane	ND	170
1,1-Dichloropropene	ND	170
Carbon Tetrachloride	ND	170
1,2-Dichloroethane	ND	170
Benzene	ND	170
Trichloroethene	5,000	170
1,2-Dichloropropane	ND	170
Bromodichloromethane	ND	170
Dibromomethane	ND	170
4-Methyl-2-Pentanone	ND	330
cis-1,3-Dichloropropene	ND	170
Toluene	ND	170
trans-1,3-Dichloropropene	ND	170
1,1,2-Trichloroethane	ND	170
2-Hexanone	ND	330
1,3-Dichloropropane	ND	170
Tetrachloroethene	ND	170

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-16	Batch#:	65244
Lab ID:	153006-003	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	ug/L	Analyzed:	07/26/01
Diln Fac:	33.33		

Analyte	Result	RL
Dibromochloromethane	ND	170
1,2-Dibromoethane	ND	170
Chlorobenzene	ND	170
1,1,1,2-Tetrachloroethane	ND	170
Ethylbenzene	ND	170
m,p-Xylenes	ND	170
o-Xylene	ND	170
Styrene	ND	170
Bromoform	ND	170
Isopropylbenzene	ND	170
1,1,2,2-Tetrachloroethane	ND	170
1,2,3-Trichloropropane	ND	170
Propylbenzene	ND	170
Bromobenzene	ND	170
1,3,5-Trimethylbenzene	ND	170
2-Chlorotoluene	ND	170
4-Chlorotoluene	ND	170
tert-Butylbenzene	ND	170
1,2,4-Trimethylbenzene	ND	170
sec-Butylbenzene	ND	170
para-Isopropyl Toluene	ND	170
1,3-Dichlorobenzene	ND	170
1,4-Dichlorobenzene	ND	170
n-Butylbenzene	ND	170
1,2-Dichlorobenzene	ND	170
1,2-Dibromo-3-Chloropropane	ND	170
1,2,4-Trichlorobenzene	ND	170
Hexachlorobutadiene	ND	170
Naphthalene	ND	170
1,2,3-Trichlorobenzene	ND	170

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	114	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	105	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-17	Units:	ug/L
Lab ID:	153006-004	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01

Analyte	Result	RL	Dil'n Fac	Batch#	Analyzed
Freon 12	ND	10	1.000	65187	07/25/01
Chloromethane	ND	10	1.000	65187	07/25/01
Vinyl Chloride	11	10	1.000	65187	07/25/01
Bromomethane	ND	10	1.000	65187	07/25/01
Chloroethane	ND	10	1.000	65187	07/25/01
Trichlorofluoromethane	ND	5.0	1.000	65187	07/25/01
Acetone	ND	20	1.000	65187	07/25/01
Freon 113	ND	5.0	1.000	65187	07/25/01
1,1-Dichloroethene	12	5.0	1.000	65187	07/25/01
Methylene Chloride	ND	20	1.000	65187	07/25/01
Carbon Disulfide	ND	5.0	1.000	65187	07/25/01
MTBE	ND	5.0	1.000	65187	07/25/01
trans-1,2-Dichloroethene	14	5.0	1.000	65187	07/25/01
Vinyl Acetate	ND	50	1.000	65187	07/25/01
1,1-Dichloroethane	ND	5.0	1.000	65187	07/25/01
2-Butanone	ND	10	1.000	65187	07/25/01
cis-1,2-Dichloroethene	46	5.0	1.000	65187	07/25/01
2,2-Dichloropropane	ND	5.0	1.000	65187	07/25/01
Chloroform	ND	5.0	1.000	65187	07/25/01
Bromochloromethane	ND	10	1.000	65187	07/25/01
1,1,1-Trichloroethane	ND	5.0	1.000	65187	07/25/01
1,1-Dichloropropene	ND	5.0	1.000	65187	07/25/01
Carbon Tetrachloride	ND	5.0	1.000	65187	07/25/01
1,2-Dichloroethane	ND	5.0	1.000	65187	07/25/01
Benzene	ND	5.0	1.000	65187	07/25/01
Trichloroethene	270	13	2.500	65244	07/26/01
1,2-Dichloropropane	ND	5.0	1.000	65187	07/25/01
Bromodichloromethane	ND	5.0	1.000	65187	07/25/01
Dibromomethane	ND	5.0	1.000	65187	07/25/01
4-Methyl-2-Pentanone	ND	10	1.000	65187	07/25/01
cis-1,3-Dichloropropene	ND	5.0	1.000	65187	07/25/01
Toluene	ND	5.0	1.000	65187	07/25/01
trans-1,3-Dichloropropene	ND	5.0	1.000	65187	07/25/01
1,1,2-Trichloroethane	ND	5.0	1.000	65187	07/25/01
2-Hexanone	ND	10	1.000	65187	07/25/01
1,3-Dichloropropane	ND	5.0	1.000	65187	07/25/01
Tetrachloroethene	7.3	5.0	1.000	65187	07/25/01
Dibromochloromethane	ND	5.0	1.000	65187	07/25/01
1,2-Dibromoethane	ND	5.0	1.000	65187	07/25/01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-17	Units:	ug/L
Lab ID:	153006-004	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Chlorobenzene	21	5.0	1.000	65187	07/25/01
1,1,1,2-Tetrachloroethane	ND	5.0	1.000	65187	07/25/01
Ethylbenzene	ND	5.0	1.000	65187	07/25/01
m,p-Xylenes	ND	5.0	1.000	65187	07/25/01
o-Xylene	ND	5.0	1.000	65187	07/25/01
Styrene	ND	5.0	1.000	65187	07/25/01
Bromoform	ND	5.0	1.000	65187	07/25/01
Isopropylbenzene	ND	5.0	1.000	65187	07/25/01
1,1,2,2-Tetrachloroethane	ND	5.0	1.000	65187	07/25/01
1,2,3-Trichloropropane	ND	5.0	1.000	65187	07/25/01
Propylbenzene	ND	5.0	1.000	65187	07/25/01
Bromobenzene	ND	5.0	1.000	65187	07/25/01
1,3,5-Trimethylbenzene	ND	5.0	1.000	65187	07/25/01
2-Chlorotoluene	ND	5.0	1.000	65187	07/25/01
4-Chlorotoluene	ND	5.0	1.000	65187	07/25/01
tert-Butylbenzene	ND	5.0	1.000	65187	07/25/01
1,2,4-Trimethylbenzene	ND	5.0	1.000	65187	07/25/01
sec-Butylbenzene	ND	5.0	1.000	65187	07/25/01
para-Isopropyl Toluene	ND	5.0	1.000	65187	07/25/01
1,3-Dichlorobenzene	ND	5.0	1.000	65187	07/25/01
1,4-Dichlorobenzene	ND	5.0	1.000	65187	07/25/01
n-Butylbenzene	ND	5.0	1.000	65187	07/25/01
1,2-Dichlorobenzene	8.4	5.0	1.000	65187	07/25/01
1,2-Dibromo-3-Chloropropane	ND	5.0	1.000	65187	07/25/01
1,2,4-Trichlorobenzene	ND	5.0	1.000	65187	07/25/01
Hexachlorobutadiene	ND	5.0	1.000	65187	07/25/01
Naphthalene	ND	5.0	1.000	65187	07/25/01
1,2,3-Trichlorobenzene	ND	5.0	1.000	65187	07/25/01

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	101	80-122	1.000	65187	07/25/01
1,2-Dichloroethane-d4	117	78-123	1.000	65187	07/25/01
Toluene-d8	100	80-110	1.000	65187	07/25/01
Bromofluorobenzene	105	80-115	1.000	65187	07/25/01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-18	Diln Fac:	1.000
Lab ID:	153006-005	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Freon 12	ND	10	65244	07/25/01
Chloromethane	ND	10	65244	07/25/01
Vinyl Chloride	ND	10	65244	07/25/01
Bromomethane	ND	10	65244	07/25/01
Chloroethane	ND	10	65244	07/25/01
Trichlorofluoromethane	ND	5.0	65244	07/25/01
Acetone	ND	20	65244	07/25/01
Freon 113	ND	5.0	65244	07/25/01
1,1-Dichloroethene	ND	5.0	65244	07/25/01
Methylene Chloride	ND	20	65244	07/25/01
Carbon Disulfide	ND	5.0	65244	07/25/01
MTBE	ND	5.0	65244	07/25/01
trans-1,2-Dichloroethene	9.3	5.0	65244	07/25/01
Vinyl Acetate	ND	50	65244	07/25/01
1,1-Dichloroethane	ND	5.0	65244	07/25/01
2-Butanone	ND	10	65244	07/25/01
cis-1,2-Dichloroethene	26	5.0	65244	07/25/01
2,2-Dichloropropane	ND	5.0	65244	07/25/01
Chloroform	ND	5.0	65244	07/25/01
Bromochloromethane	ND	10	65244	07/25/01
1,1,1-Trichloroethane	ND	5.0	65244	07/25/01
1,1-Dichloropropene	ND	5.0	65244	07/25/01
Carbon Tetrachloride	ND	5.0	65244	07/25/01
1,2-Dichloroethane	ND	5.0	65244	07/25/01
Benzene	ND	5.0	65244	07/25/01
Trichloroethene	130	5.0	65244	07/25/01
1,2-Dichloropropane	ND	5.0	65244	07/25/01
Bromodichloromethane	ND	5.0	65244	07/25/01
Dibromomethane	ND	5.0	65244	07/25/01
4-Methyl-2-Pentanone	ND	10	65244	07/25/01
cis-1,3-Dichloropropene	ND	5.0	65244	07/25/01
Toluene	ND	5.0	65244	07/25/01
trans-1,3-Dichloropropene	ND	5.0	65244	07/25/01
1,1,2-Trichloroethane	ND	5.0	65244	07/25/01
2-Hexanone	ND	10	65244	07/25/01
1,3-Dichloropropane	ND	5.0	65244	07/25/01
Tetrachloroethene	6.4	5.0	65244	07/25/01
Dibromochloromethane	ND	5.0	65244	07/25/01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-18	Diln Fac:	1.000
Lab ID:	153006-005	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
1,2-Dibromoethane	ND	5.0	65244	07/25/01
Chlorobenzene	ND	5.0	65244	07/25/01
1,1,1,2-Tetrachloroethane	ND	5.0	65244	07/25/01
Ethylbenzene	ND	5.0	65244	07/25/01
m,p-Xylenes	ND	5.0	65244	07/25/01
o-Xylene	ND	5.0	65244	07/25/01
Styrene	ND	5.0	65244	07/25/01
Bromoform	ND	5.0	65244	07/25/01
Isopropylbenzene	ND	5.0	65244	07/25/01
1,1,2,2-Tetrachloroethane	ND	5.0	65244	07/25/01
1,2,3-Trichloropropane	ND	5.0	65244	07/25/01
Propylbenzene	ND	5.0	65244	07/25/01
Bromobenzene	ND	5.0	65244	07/25/01
1,3,5-Trimethylbenzene	ND	5.0	65244	07/25/01
2-Chlorotoluene	ND	5.0	65244	07/25/01
4-Chlorotoluene	ND	5.0	65244	07/25/01
tert-Butylbenzene	ND	5.0	65244	07/25/01
1,2,4-Trimethylbenzene	ND	5.0	65244	07/25/01
sec-Butylbenzene	ND	5.0	65244	07/25/01
para-Isopropyl Toluene	ND	5.0	65244	07/25/01
1,3-Dichlorobenzene	ND	5.0	65244	07/25/01
1,4-Dichlorobenzene	ND	5.0	65244	07/25/01
n-Butylbenzene	ND	5.0	65244	07/25/01
1,2-Dichlorobenzene	ND	5.0	65244	07/25/01
1,2-Dibromo-3-Chloropropane	ND	5.0	65244	07/25/01
1,2,4-Trichlorobenzene	ND	5.0	65244	07/25/01
Hexachlorobutadiene	ND	5.0	65244	07/25/01
Naphthalene	ND	5.0	65268	07/26/01
1,2,3-Trichlorobenzene	ND	5.0	65244	07/25/01

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	107	80-122	65244	07/25/01
1,2-Dichloroethane-d4	114	78-123	65244	07/25/01
Toluene-d8	98	80-110	65244	07/25/01
Bromofluorobenzene	102	80-115	65244	07/25/01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-18A	Batch#:	65187
Lab ID:	153006-006	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	ug/L	Analyzed:	07/25/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-18A	Batch#:	65187
Lab ID:	153006-006	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	ug/L	Analyzed:	07/25/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-122
1,2-Dichloroethane-d4	116	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	102	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC151257	Batch#:	65187
Matrix:	Water	Analyzed:	07/24/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC151257	Batch#:	65187
Matrix:	Water	Analyzed:	07/24/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	115	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	103	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC151462	Batch#:	65244
Matrix:	Water	Analyzed:	07/25/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC151462	Batch#:	65244
Matrix:	Water	Analyzed:	07/25/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	114	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	104	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC151551	Batch#:	65268
Matrix:	Water	Analyzed:	07/26/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC151551	Batch#:	65268
Matrix:	Water	Analyzed:	07/26/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	116	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	100	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	65187
Units:	ug/L	Analyzed:	07/24/01
Diln Fac:	1.000		

Type: BS Lab ID: QC151255

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	52.73	105	74-132
Benzene	50.00	46.79	94	80-116
Trichloroethene	50.00	49.41	99	80-119
Toluene	50.00	50.22	100	80-120
Chlorobenzene	50.00	52.15	104	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-122
1,2-Dichloroethane-d4	111	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	98	80-115

Type: BSD Lab ID: QC151256

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	51.72	103	74-132	2	20
Benzene	50.00	47.57	95	80-116	2	20
Trichloroethene	50.00	50.73	101	80-119	3	20
Toluene	50.00	51.35	103	80-120	2	20
Chlorobenzene	50.00	51.77	104	80-117	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-122
1,2-Dichloroethane-d4	112	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	96	80-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC151461	Batch#:	65244
Matrix:	Water	Analyzed:	07/25/01
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	54.18	108	74-132
Benzene	50.00	48.02	96	80-116
Trichloroethene	50.00	48.81	98	80-119
Toluene	50.00	50.82	102	80-120
Chlorobenzene	50.00	49.69	99	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-122
1,2-Dichloroethane-d4	110	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	96	80-115

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	65268
Units:	ug/L	Analyzed:	07/26/01
Diln Fac:	1.000		

Type: BS Lab ID: QC151549

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	45.98	92	74-132
Benzene	50.00	45.77	92	80-116
Trichloroethene	50.00	50.48	101	80-119
Toluene	50.00	45.04	90	80-120
Chlorobenzene	50.00	47.89	96	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-122
1,2-Dichloroethane-d4	114	78-123
Toluene-d8	102	80-110
Bromofluorobenzene	100	80-115

Type: BSD Lab ID: QC151550

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	45.40	91	74-132	1	20
Benzene	50.00	43.44	87	80-116	5	20
Trichloroethene	50.00	47.29	95	80-119	7	20
Toluene	50.00	44.23	88	80-120	2	20
Chlorobenzene	50.00	47.56	95	80-117	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-122
1,2-Dichloroethane-d4	110	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	103	80-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	65244
MSS Lab ID:	153207-001	Sampled:	07/23/01
Matrix:	Water	Received:	07/23/01
Units:	ug/L	Analyzed:	07/26/01
Diln Fac:	2.000		

Type: MS Lab ID: QC151463

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	10.67	100.0	116.7	106	70-132
Benzene	1.364	100.0	97.37	96	80-114
Trichloroethene	617.9 >LR	100.0	677.4 >LR	59 NM	62-137
Toluene	<0.1700	100.0	102.1	102	79-121
Chlorobenzene	<0.1600	100.0	101.9	102	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	113	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	95	80-115

Type: MSD Lab ID: QC151464

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	100.0	115.4	105	70-132	1	20
Benzene	100.0	95.20	94	80-114	2	20
Trichloroethene	100.0	656.8 >LR	39 NM	62-137	NC	20
Toluene	100.0	99.69	100	79-121	2	20
Chlorobenzene	100.0	98.18	98	80-117	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	112	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	95	80-115

NC= Not Calculated
NM= Not Meaningful
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Chromium

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 3010
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	ug/L	Prepared:	07/13/01
Batch#:	64934	Analyzed:	07/19/01

Field ID	Type	Lab ID	Result	RL	Dil'n Fac
MW-5	SAMPLE	153006-001	52	10	1.000
MW-6	SAMPLE	153006-002	2,500	10	1.000
MW-16	SAMPLE	153006-003	110,000	100	10.00
MW-17	SAMPLE	153006-004	170,000	100	10.00
MW-18	SAMPLE	153006-005	5,400	10	1.000
MW-18A	SAMPLE	153006-006	ND	10	1.000
	BLANK	QC150292	ND	10	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Chromium

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 3010
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	64934
Matrix:	Water	Prepared:	07/13/01
Units:	ug/L	Analyzed:	07/19/01
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC150293	200.0	199.0	100	80-113		
BSD	QC150294	200.0	199.0	100	80-113	0	21

RPD= Relative Percent Difference

Chromium

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	EPA 3010
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	64934
Field ID:	ZZZZZZZZZZ	Sampled:	07/12/01
MSS Lab ID:	153004-001	Received:	07/12/01
Matrix:	Water	Prepared:	07/13/01
Units:	ug/L	Analyzed:	07/19/01
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC150295	0.8300	200.0	197.0	98	70-124		
MSD	QC150296		200.0	205.0	102	70-124	4	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7196
Analyte:	Hexavalent Chromium	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	mg/L	Analyzed:	07/13/01
Batch#:	64939		

Field ID	Type	Lab ID	Result	RL	Dil'n Fac
MW-5	SAMPLE	153006-001	0.02	0.01	1.000
MW-6	SAMPLE	153006-002	2.4	0.05	5.000
MW-16	SAMPLE	153006-003	0.07	0.01	1.000
MW-17	SAMPLE	153006-004	0.17	0.01	1.000
MW-18	SAMPLE	153006-005	5.1	0.10	10.00
MW-18A	SAMPLE	153006-006	0.03	0.01	1.000
	BLANK	QC150313	ND	0.01	1.000

ND= Not Detected
RL= Reporting Limit

Hexavalent Chromium

Lab #:	153006	Location:	Electro Coating
Client:	Arcadis G&M	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7196
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	MW-5	Batch#:	64939
MSS Lab ID:	153006-001	Sampled:	07/12/01
Matrix:	Water	Received:	07/12/01
Units:	mg/L	Analyzed:	07/13/01

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC150314		0.8000	0.8670	108	80-111		
MS	QC150315	0.01600	0.8000	0.09600	10 *	56-143		
MSD	QC150316		0.8000	0.1210	13 *	56-143	23 *	20

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

ANALYTICAL REPORT

Prepared for:

Arcadis G&M
1050 Marina Way South
Richmond, CA 94804

Date: 03-AUG-01
Lab Job Number: 152989
Project ID: N/A
Location: Electro-Coatings, Inc.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: Paul Prendergast
Project Manager

Reviewed by:
Operations Manager

Curtis & Tompkins, Ltd.

Laboratory Number: **152989**
Client: **Arcadis G&M**
Project Name: **Electro-Coatings, Inc.**
Receipt Date: **07/11/01**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for eight water samples received from the above referenced project on July 11, 2001. The samples were received cold and intact.

Volatile Organic Compounds (EPA 8260B):

The recovery for the bromofluorobenzene surrogate was over the acceptable QC limits for client ID MW-20 (C&T ID 152989-005). None of the analytes was detected in the sample so the quality of the sample data should not be affected. No other analytical problems were detected.

Metals (EPA 6010B/7196):

The recovery for the matrix spike and the relative percent difference between the matrix spike and its duplicate for batch number 64895 was below the acceptable QC limits. The associated laboratory control sample was acceptable so the quality of the sample data should not be affected. No other analytical problems were encountered.

BLAINE TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF BTS # 010711-SF-1

CLIENT: Arcadis Garaghty & Miller

SITE: Electro-Coatings, Inc.
1401 Park Ave.
Emeryville, CA

CONDUCT ANALYSIS TO DETECT

LAB: Curtis & Tompkins DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis Garaghty Miller
Attn: Gene Ng
* 24 hour hold time

	SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	Total Chromium	Hexavalent Chromium *	VOC's	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
-1	MW-4	7/11/01	1530	W	5		X	X	X				
-2	MW-10		1408				X	X	X				
-3	MW-13		1018				X	X	X				
-4	MW-14		1055				X	X	X				
-5	MW-20		1450				X	X	X				
-6	MW-26		1207				X	X	X				
-7	IW-01-01		1240				X	X	X				
-8	IW-01-02		1140				X	X	X				

Preservation Correct? ☑ Yes ☐ No ☐ N/A

Received ☑ Office ☐ Cold ☐ Ambient ☐ Intact

SAMPLING COMPLETED	DATE	TIME
	7/11/01	1600

SAMPLING PERFORMED BY: JEREMY BRANS

RESULTS NEEDED NO LATER THAN: Confirm with AG&M

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	7/11/01	1610		7/11/01	4:07 pm

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-4	Batch#:	64983
Lab ID:	152989-001	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/17/01
Diln Fac:	50.00		

Analyte	Result	RL
Freon 12	ND	500
Chloromethane	ND	500
Vinyl Chloride	1,200	500
Bromomethane	ND	500
Chloroethane	ND	500
Trichlorofluoromethane	ND	250
Acetone	ND	1,000
Freon 113	ND	250
1,1-Dichloroethene	ND	250
Methylene Chloride	ND	1,000
Carbon Disulfide	ND	250
MTBE	ND	250
trans-1,2-Dichloroethene	ND	250
Vinyl Acetate	ND	2,500
1,1-Dichloroethane	ND	250
2-Butanone	ND	500
cis-1,2-Dichloroethene	7,500	250
2,2-Dichloropropane	ND	250
Chloroform	ND	250
Bromochloromethane	ND	500
1,1,1-Trichloroethane	ND	250
1,1-Dichloropropene	ND	250
Carbon Tetrachloride	ND	250
1,2-Dichloroethane	ND	250
Benzene	ND	250
Trichloroethene	ND	250
1,2-Dichloropropane	ND	250
Bromodichloromethane	ND	250
Dibromomethane	ND	250
4-Methyl-2-Pentanone	ND	500
cis-1,3-Dichloropropene	ND	250
Toluene	ND	250
trans-1,3-Dichloropropene	ND	250
1,1,2-Trichloroethane	ND	250
2-Hexanone	ND	500
1,3-Dichloropropane	ND	250
Tetrachloroethene	ND	250

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-4	Batch#:	64983
Lab ID:	152989-001	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/17/01
Diln Fac:	50.00		

Analyte	Result	RL
Dibromochloromethane	ND	250
1,2-Dibromoethane	ND	250
Chlorobenzene	ND	250
1,1,1,2-Tetrachloroethane	ND	250
Ethylbenzene	ND	250
m,p-Xylenes	ND	250
o-Xylene	ND	250
Styrene	ND	250
Bromoform	ND	250
Isopropylbenzene	ND	250
1,1,2,2-Tetrachloroethane	ND	250
1,2,3-Trichloropropane	ND	250
Propylbenzene	ND	250
Bromobenzene	ND	250
1,3,5-Trimethylbenzene	ND	250
2-Chlorotoluene	ND	250
4-Chlorotoluene	ND	250
tert-Butylbenzene	ND	250
1,2,4-Trimethylbenzene	ND	250
sec-Butylbenzene	ND	250
para-Isopropyl Toluene	ND	250
1,3-Dichlorobenzene	ND	250
1,4-Dichlorobenzene	ND	250
n-Butylbenzene	ND	250
1,2-Dichlorobenzene	ND	250
1,2-Dibromo-3-Chloropropane	ND	250
1,2,4-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	250
Naphthalene	ND	250
1,2,3-Trichlorobenzene	ND	250

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-122
1,2-Dichloroethane-d4	111	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	103	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-10	Batch#:	64944
Lab ID:	152989-002	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/14/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	7.1	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	6.8	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	12	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-10	Batch#:	64944
Lab ID:	152989-002	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/14/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-122
1,2-Dichloroethane-d4	109	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	99	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-13	Batch#:	64944
Lab ID:	152989-003	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/14/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-13	Batch#:	64944
Lab ID:	152989-003	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/14/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	107	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	102	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-14	Batch#:	64954
Lab ID:	152989-004	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/14/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	15	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	7.3	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	13	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	7.7	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-14	Batch#:	64954
Lab ID:	152989-004	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/14/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-122
1,2-Dichloroethane-d4	111	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	100	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-20	Batch#:	64982
Lab ID:	152989-005	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/16/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-20	Batch#:	64982
Lab ID:	152989-005	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/16/01
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC		Limits
Dibromofluoromethane	106		80-122
1,2-Dichloroethane-d4	107		78-123
Toluene-d8	95		80-110
Bromofluorobenzene	117	*	80-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-26	Batch#:	65118
Lab ID:	152989-006	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/20/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	18	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	5.6	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	15	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-26	Batch#:	65118
Lab ID:	152989-006	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/20/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	115	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	102	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	IW-01-01	Batch#:	65165
Lab ID:	152989-007	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/23/01
Diln Fac:	25.00		

Analyte	Result	RL
Freon 12	ND	250
Chloromethane	ND	250
Vinyl Chloride	1,100	250
Bromomethane	ND	250
Chloroethane	ND	250
Trichlorofluoromethane	ND	130
Acetone	ND	500
Freon 113	ND	130
1,1-Dichloroethene	ND	130
Methylene Chloride	ND	500
Carbon Disulfide	ND	130
MTBE	ND	130
trans-1,2-Dichloroethene	ND	130
Vinyl Acetate	ND	1,300
1,1-Dichloroethane	150	130
2-Butanone	ND	250
cis-1,2-Dichloroethene	2,800	130
2,2-Dichloropropane	ND	130
Chloroform	ND	130
Bromochloromethane	ND	250
1,1,1-Trichloroethane	ND	130
1,1-Dichloropropene	ND	130
Carbon Tetrachloride	ND	130
1,2-Dichloroethane	ND	130
Benzene	ND	130
Trichloroethene	1,800	130
1,2-Dichloropropane	ND	130
Bromodichloromethane	ND	130
Dibromomethane	ND	130
4-Methyl-2-Pentanone	ND	250
cis-1,3-Dichloropropene	ND	130
Toluene	ND	130
trans-1,3-Dichloropropene	ND	130
1,1,2-Trichloroethane	ND	130
2-Hexanone	ND	250
1,3-Dichloropropane	ND	130
Tetrachloroethene	ND	130

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	IW-01-01	Batch#:	65165
Lab ID:	152989-007	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/23/01
Diln Fac:	25.00		

Analyte	Result	RL
Dibromochloromethane	ND	130
1,2-Dibromoethane	ND	130
Chlorobenzene	ND	130
1,1,1,2-Tetrachloroethane	ND	130
Ethylbenzene	ND	130
m,p-Xylenes	ND	130
o-Xylene	ND	130
Styrene	ND	130
Bromoform	ND	130
Isopropylbenzene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
1,2,3-Trichloropropane	ND	130
Propylbenzene	ND	130
Bromobenzene	ND	130
1,3,5-Trimethylbenzene	ND	130
2-Chlorotoluene	ND	130
4-Chlorotoluene	ND	130
tert-Butylbenzene	ND	130
1,2,4-Trimethylbenzene	ND	130
sec-Butylbenzene	ND	130
para-Isopropyl Toluene	ND	130
1,3-Dichlorobenzene	ND	130
1,4-Dichlorobenzene	ND	130
n-Butylbenzene	ND	130
1,2-Dichlorobenzene	ND	130
1,2-Dibromo-3-Chloropropane	ND	130
1,2,4-Trichlorobenzene	ND	130
Hexachlorobutadiene	ND	130
Naphthalene	ND	130
1,2,3-Trichlorobenzene	ND	130

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-122
1,2-Dichloroethane-d4	102	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	101	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	IW-01-02	Batch#:	65165
Lab ID:	152989-008	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/23/01
Diln Fac:	7.143		

Analyte	Result	RL
Freon 12	ND	71
Chloromethane	ND	71
Vinyl Chloride	480	71
Bromomethane	ND	71
Chloroethane	ND	71
Trichlorofluoromethane	ND	36
Acetone	ND	140
Freon 113	ND	36
1,1-Dichloroethene	ND	36
Methylene Chloride	ND	140
Carbon Disulfide	ND	36
MTBE	ND	36
trans-1,2-Dichloroethene	ND	36
Vinyl Acetate	ND	360
1,1-Dichloroethane	38	36
2-Butanone	ND	71
cis-1,2-Dichloroethene	290	36
2,2-Dichloropropane	ND	36
Chloroform	ND	36
Bromochloromethane	ND	71
1,1,1-Trichloroethane	ND	36
1,1-Dichloropropene	ND	36
Carbon Tetrachloride	ND	36
1,2-Dichloroethane	ND	36
Benzene	ND	36
Trichloroethene	ND	36
1,2-Dichloropropane	ND	36
Bromodichloromethane	ND	36
Dibromomethane	ND	36
4-Methyl-2-Pentanone	ND	71
cis-1,3-Dichloropropene	ND	36
Toluene	ND	36
trans-1,3-Dichloropropene	ND	36
1,1,2-Trichloroethane	ND	36
2-Hexanone	ND	71
1,3-Dichloropropane	ND	36
Tetrachloroethene	ND	36

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	IW-01-02	Batch#:	65165
Lab ID:	152989-008	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Analyzed:	07/23/01
Diln Fac:	7.143		

Analyte	Result	RL
Dibromochloromethane	ND	36
1,2-Dibromoethane	ND	36
Chlorobenzene	ND	36
1,1,1,2-Tetrachloroethane	ND	36
Ethylbenzene	ND	36
m,p-Xylenes	ND	36
o-Xylene	ND	36
Styrene	ND	36
Bromoform	ND	36
Isopropylbenzene	ND	36
1,1,2,2-Tetrachloroethane	ND	36
1,2,3-Trichloropropane	ND	36
Propylbenzene	ND	36
Bromobenzene	ND	36
1,3,5-Trimethylbenzene	ND	36
2-Chlorotoluene	ND	36
4-Chlorotoluene	ND	36
tert-Butylbenzene	ND	36
1,2,4-Trimethylbenzene	ND	36
sec-Butylbenzene	ND	36
para-Isopropyl Toluene	ND	36
1,3-Dichlorobenzene	ND	36
1,4-Dichlorobenzene	ND	36
n-Butylbenzene	ND	36
1,2-Dichlorobenzene	ND	36
1,2-Dibromo-3-Chloropropane	ND	36
1,2,4-Trichlorobenzene	ND	36
Hexachlorobutadiene	ND	36
Naphthalene	ND	36
1,2,3-Trichlorobenzene	ND	36

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-122
1,2-Dichloroethane-d4	106	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	98	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC150337	Batch#:	64944
Matrix:	Water	Analyzed:	07/13/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC150337	Batch#:	64944
Matrix:	Water	Analyzed:	07/13/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-122
1,2-Dichloroethane-d4	104	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	102	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC150381	Batch#:	64954
Matrix:	Water	Analyzed:	07/13/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC150381	Batch#:	64954
Matrix:	Water	Analyzed:	07/13/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	95	80-110
Bromofluorobenzene	104	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC150481	Batch#:	64982
Matrix:	Water	Analyzed:	07/16/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC150481	Batch#:	64982
Matrix:	Water	Analyzed:	07/16/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	106	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	100	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC150485	Batch#:	64983
Matrix:	Water	Analyzed:	07/16/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC150485	Batch#:	64983
Matrix:	Water	Analyzed:	07/16/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-122
1,2-Dichloroethane-d4	104	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	103	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC150993	Batch#:	65118
Matrix:	Water	Analyzed:	07/20/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC150993	Batch#:	65118
Matrix:	Water	Analyzed:	07/20/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	111	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	104	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC151161	Batch#:	65165
Matrix:	Water	Analyzed:	07/23/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC151161	Batch#:	65165
Matrix:	Water	Analyzed:	07/23/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	101	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	64944
Units:	ug/L	Analyzed:	07/13/01
Diln Fac:	1.000		

Type: BS Lab ID: QC150334

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	52.37	105	74-132
Benzene	50.00	46.64	93	80-116
Trichloroethene	50.00	46.77	94	80-119
Toluene	50.00	47.33	95	80-120
Chlorobenzene	50.00	48.88	98	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-122
1,2-Dichloroethane-d4	99	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	101	80-115

Type: BSD Lab ID: QC150335

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	52.45	105	74-132	0	20
Benzene	50.00	48.95	98	80-116	5	20
Trichloroethene	50.00	48.02	96	80-119	3	20
Toluene	50.00	48.29	97	80-120	2	20
Chlorobenzene	50.00	49.88	100	80-117	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-122
1,2-Dichloroethane-d4	103	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	99	80-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	64954
Units:	ug/L	Analyzed:	07/13/01
Diln Fac:	1.000		

Type: BS Lab ID: QC150379

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	55.99	112	74-132
Benzene	50.00	51.06	102	80-116
Trichloroethene	50.00	47.66	95	80-119
Toluene	50.00	50.42	101	80-120
Chlorobenzene	50.00	49.27	99	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-122
1,2-Dichloroethane-d4	103	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	97	80-115

Type: BSD Lab ID: QC150380

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	52.25	104	74-132	7	20
Benzene	50.00	50.24	100	80-116	2	20
Trichloroethene	50.00	47.90	96	80-119	1	20
Toluene	50.00	49.92	100	80-120	1	20
Chlorobenzene	50.00	49.09	98	80-117	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	96	80-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	64982
Units:	ug/L	Analyzed:	07/16/01
Diln Fac:	1.000		

Type: BS Lab ID: QC150478

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	53.29	107	74-132
Benzene	50.00	49.09	98	80-116
Trichloroethene	50.00	45.81	92	80-119
Toluene	50.00	47.35	95	80-120
Chlorobenzene	50.00	47.77	96	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	95	80-110
Bromofluorobenzene	95	80-115

Type: BSD Lab ID: QC150479

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	55.87	112	74-132	5	20
Benzene	50.00	51.39	103	80-116	5	20
Trichloroethene	50.00	49.33	99	80-119	7	20
Toluene	50.00	48.94	98	80-120	3	20
Chlorobenzene	50.00	48.97	98	80-117	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-122
1,2-Dichloroethane-d4	104	78-123
Toluene-d8	95	80-110
Bromofluorobenzene	94	80-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	64983
Units:	ug/L	Analyzed:	07/16/01
Diln Fac:	1.000		

Type: BS Lab ID: QC150482

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	53.68	107	74-132
Benzene	50.00	48.29	97	80-116
Trichloroethene	50.00	46.92	94	80-119
Toluene	50.00	48.20	96	80-120
Chlorobenzene	50.00	50.24	100	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	93	78-123
Toluene-d8	95	80-110
Bromofluorobenzene	99	80-115

Type: BSD Lab ID: QC150483

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	51.24	102	74-132	5	20
Benzene	50.00	47.66	95	80-116	1	20
Trichloroethene	50.00	46.59	93	80-119	1	20
Toluene	50.00	46.72	93	80-120	3	20
Chlorobenzene	50.00	47.92	96	80-117	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	102	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	99	80-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	65118
Units:	ug/L	Analyzed:	07/20/01
Diln Fac:	1.000		

Type: BS Lab ID: QC150990

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	55.66	111	74-132
Benzene	50.00	48.52	97	80-116
Trichloroethene	50.00	49.25	99	80-119
Toluene	50.00	50.82	102	80-120
Chlorobenzene	50.00	51.07	102	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-122
1,2-Dichloroethane-d4	105	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	99	80-115

Type: BSD Lab ID: QC150991

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	51.58	103	74-132	8	20
Benzene	50.00	47.41	95	80-116	2	20
Trichloroethene	50.00	48.78	98	80-119	1	20
Toluene	50.00	50.45	101	80-120	1	20
Chlorobenzene	50.00	49.21	98	80-117	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-122
1,2-Dichloroethane-d4	106	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	98	80-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	65165
Units:	ug/L	Analyzed:	07/23/01
Diln Fac:	1.000		

Type: BS Lab ID: QC151159

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	46.09	92	74-132
Benzene	50.00	44.74	89	80-116
Trichloroethene	50.00	48.11	96	80-119
Toluene	50.00	48.32	97	80-120
Chlorobenzene	50.00	49.64	99	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-122
1,2-Dichloroethane-d4	100	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	95	80-115

Type: BSD Lab ID: QC151160

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	44.24	88	74-132	4	20
Benzene	50.00	43.63	87	80-116	3	20
Trichloroethene	50.00	46.61	93	80-119	3	20
Toluene	50.00	47.44	95	80-120	2	20
Chlorobenzene	50.00	49.39	99	80-117	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	95	80-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Chromium

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 3010
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	ug/L	Prepared:	07/12/01
Diln Fac:	1.000	Analyzed:	07/12/01
Batch#:	64897		

Field ID	Type	Lab ID	Result	RL
MW-4	SAMPLE	152989-001	ND	10
MW-10	SAMPLE	152989-002	34	10
MW-13	SAMPLE	152989-003	43	10
MW-14	SAMPLE	152989-004	40	10
MW-20	SAMPLE	152989-005	ND	10
MW-26	SAMPLE	152989-006	31	10
IW-01-01	SAMPLE	152989-007	ND	10
IW-01-02	SAMPLE	152989-008	24	10
	BLANK	QC150157	ND	10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Chromium

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 3010
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	64897
Matrix:	Water	Prepared:	07/12/01
Units:	ug/L	Analyzed:	07/12/01
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC150158	200.0	199.0	100	80-113		
BSD	QC150159	200.0	196.0	98	80-113	2	21

RPD= Relative Percent Difference

Chromium

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	EPA 3010
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	64897
Field ID:	ZZZZZZZZZZ	Sampled:	07/11/01
MSS Lab ID:	152974-001	Received:	07/11/01
Matrix:	Water	Prepared:	07/12/01
Units:	ug/L	Analyzed:	07/12/01
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC150160	<0.3800	200.0	199.0	100	70-124		
MSD	QC150161		200.0	202.0	101	70-124	1	20

RPD= Relative Percent Difference

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Hexavalent Chromium

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7196
Analyte:	Hexavalent Chromium	Batch#:	64895
Matrix:	Water	Sampled:	07/11/01
Units:	mg/L	Received:	07/11/01
Diln Fac:	1.000	Analyzed:	07/12/01

Field ID	Type	Lab ID	Result	RL
MW-4	SAMPLE	152989-001	ND	0.01
MW-10	SAMPLE	152989-002	ND	0.01
MW-13	SAMPLE	152989-003	ND	0.01
MW-14	SAMPLE	152989-004	ND	0.01
MW-20	SAMPLE	152989-005	ND	0.01
MW-26	SAMPLE	152989-006	ND	0.01
IW-01-01	SAMPLE	152989-007	ND	0.01
IW-01-02	SAMPLE	152989-008	ND	0.01
	BLANK	QC150148	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	152989	Location:	Electro-Coatings, Inc.
Client:	Arcadis G&M	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7196
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	MW-4	Batch#:	64895
MSS Lab ID:	152989-001	Sampled:	07/11/01
Matrix:	Water	Received:	07/11/01
Units:	mg/L	Analyzed:	07/12/01

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC150149		0.8000	0.8670	108	80-111		
MS	QC150150	<0.01000	0.8000	0.3660	46 *	56-143		
MSD	QC150151		0.8000	0.5100	64	56-143	33 *	20

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference