

Croley and Herring
Investment Company
353 Beacon Ridge Lane
Walnut Creek, CA 94596

To → ~~Mr. Sam Arigala~~
TO *Mr. Sam Arigala* | *Alameda County Health Care Services*
AT Regional Water Quality Control Board.
SUBJECT *Croley and Herring Annual Monitoring Report* | DATE *March 10, 1995*

Attached is a copy of our January 1995 Annual monitoring report for our facility at 5500 Christie, Emeryville CA. Please review and advise if you have any questions. A summary and conclusions are provided along with copies of lab reports.

PLEASE REPLY TO →

SIGNED

R. D. Herring.

DATE

SIGNED

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4W469

SEND PARTS 1 AND 3 INTACT -
PART 3 WILL BE RETURNED WITH REPLY

QUARTERLY GROUNDWATER REPORT

**5800 CHRISTIE AVENUE,
EMERYVILLE, CALIFORNIA**

FEBRUARY 20, 1995

SUBMITTED TO:

**MS. SUSAN HUGO
ALAMEDA COUNTY HEALTH CARE SERVICES
HAZARDOUS MATERIALS DIVISION
1131 HARBOUR BAY PARKWAY,
ALAMEDA, CALIFORNIA 94502**

PREPARED FOR :

**CROLEY & HERRING INVESTMENT COMPANY
353 BEACON RIDGE LANE,
WALNUT CREEK, CALIFORNIA 94596**

PREPARED BY:

**ETS ENVIRONMENT & TECHNOLOGY SERVICES
2081 15TH STREET,
SAN FRANCISCO, CALIFORNIA 94114
TELEPHONE: 415-861-0810
FACIMILE: 415-861-3269**

**ENVIRONMENTAL
PROTECTION
95 MAR 13 PM 3:47**

ETS ENVIRONMENT & TECHNOLOGY SERVICES

2081 15TH STREET, SAN FRANCISCO, CALIFORNIA 94114
PHONE 415-861-0810 FAX 415-861-3269

February 20, 1995

Mr. Dick Herring
President
Croley & Herring Investment Company
353 Beacon Ridge Lane,
Walnut Creek, California 94596

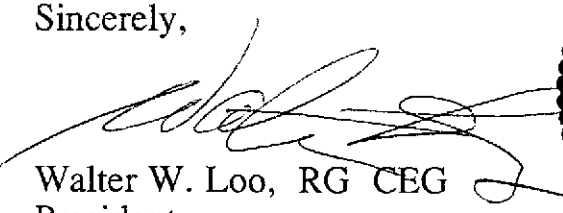
Subject: Annual Groundwater Report 1995
5800 Christie Avenue, Emeryville, California

Dear Mr. Herring:

Enclosed please find a copy of the quarterly groundwater report for the January, 1995 water sampling period at the subject facility.

Please contact me if you have any questions regarding this report.

Sincerely,


Walter W. Loo, RG CEG
President



CC: Mr. Sum Arigala, Bay Area RWQCB

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1.0 INTRODUCTION

Environment & Technology Services(ETS) was retained by Croley & Herring Investment Company to perform the second annual groundwater monitoring for the facility located at 5800 Christie Street in Emeryville, California. The subject facility is currently leased to an electronic merchandise retailer. Prior to leasing, soil contamination was identified at the subject facility. The contaminated soil was removed with the exception of that which was underlying the building because of safety concerns. The removed soil was remediated on-site and properly disposed of with the approval of the regulatory agencies.

A vapor extraction system(VES) was installed immediately adjacent to the northeastern side of the building to mitigate the residual volatile hydrocarbons contained in the soil. The residual volatile organic chemicals(VOCs) were remediated from an average VOCs concentration of about 660 ppm to a satisfactory level at an average of 0.82 ppm in soil. A soil closure plan was submitted(11/15/91) and approval of closure was received on 1/21/92 after submittal of confirming soil sampling results. The soil vapor extraction system was decommissioned and the Bay Area Air Quality Management District was notified on 12/16/91. The final VES closure report was completed on August 29, 1992. An indoor vapor monitoring system Sierra Monitor Model 5000 was installed by the "Good Guys" electronic store in 1989 through March, 1993. No significant level of methane was detected for the monitoring period. The vapor monitoring system was disconnected in March, 1993 with the concurrence of Mr. Brian Oliva of Alameda County Health Care Services, March 15,1993 correspondence.

As part of the site activities, a quarterly groundwater monitoring program has been implemented. Previous quarterly monitoring events were conducted on November 6, 1989, February 20, 1990, May 31, 1990, September 7, 1990, December 4, 1990, April 16, 1991, July 3,1991, October 12, 1991, January 26, 1992, April 8, 1992, July 15,1992, October 19, 1992, January 11, 1993, March 29, 1993, July 7, 1993 October 8, 1993 and January 19, 1994 respectively. This annual groundwater level monitoring event was conducted on January 4, 1995. On January 25, 1995, groundwater samples were taken from the monitoring wells and sent to a State-certified laboratory for analysis under proper chain-of-custody procedures.

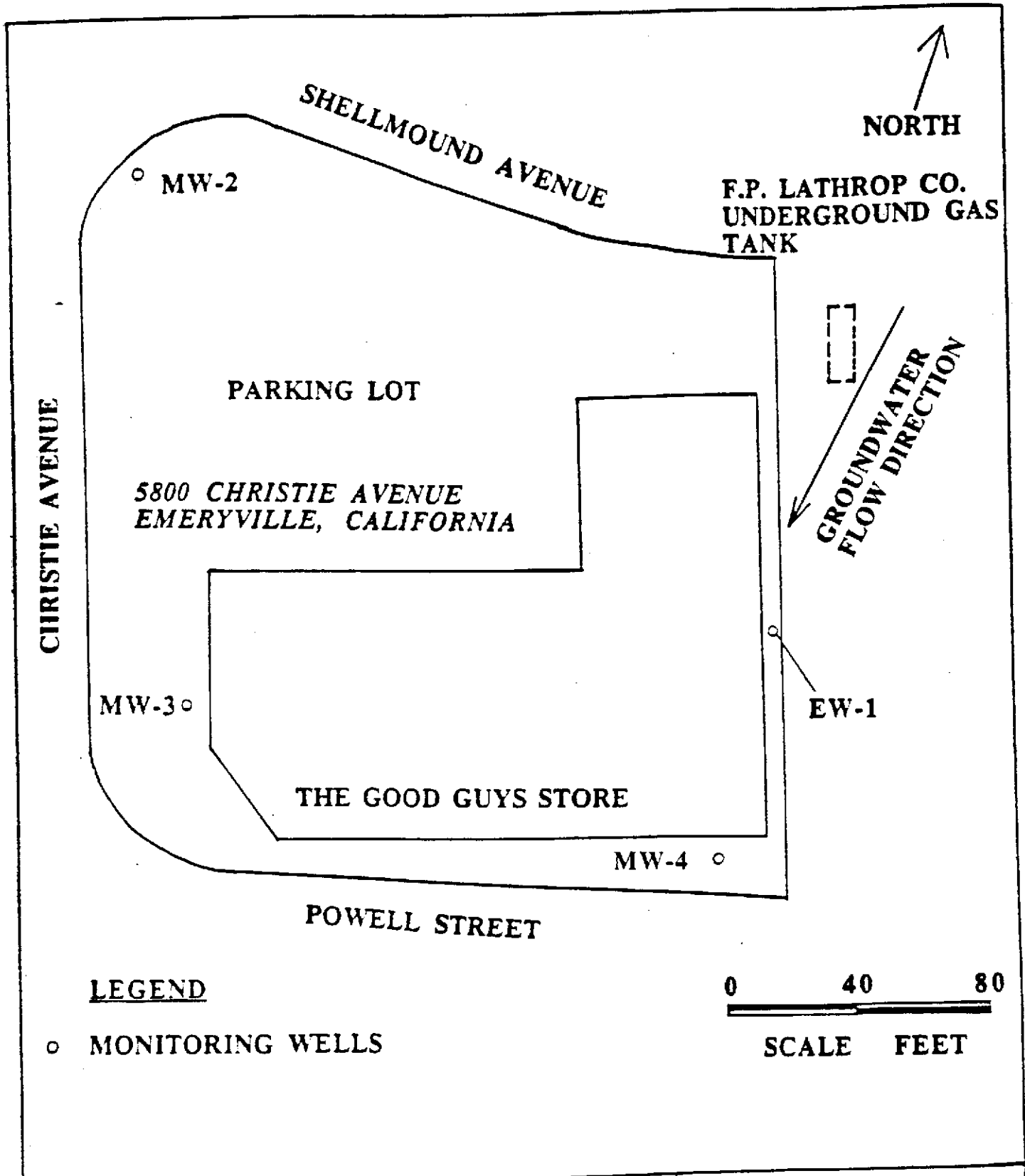
This report presents the results of this quarterly groundwater monitoring event on well EW1 and MW4 including laboratory analytical results, groundwater movement analysis, summary of findings, and conclusions and discussions.

2.0 GROUNDWATER MOVEMENT ANALYSIS

Prior to sample collection of this quarterly sampling, depth-to-water table in each of the four existing monitoring wells at the facility was measured for the analysis of groundwater movement. Table 1 presents a summary of the water levels in the three wells (EW1, MW2, MW3 and MW4) from the groundwater monitoring events prepared by ETS.

From the result of the water level measurements on January 4, 1995, elevation of water levels were higher, as compared to the data collected in January 1994. The groundwater flow direction remained in the same direction, flowing towards south(Figure 1). The hydraulic gradient was 0.0105 feet per horizontal foot.

Groundwater movement across the facility remains in a similar pattern, as compared to the result from the previous sampling event. Data of flow direction and hydraulic gradient are summarized in Table 2.



LEGEND

○ MONITORING WELLS



SCALE FEET

ETS

ENVIRONMENT & TECHNOLOGY SERVICES

**FIGURE 1
LOCATION MAP**

TABLE 1

SUMMARY OF WATER LEVEL DATA

WELL Name	Elev. of TOC (Ft-MSL)	11/6/89		2/20/90		5/31/90		9/7/90	
		DTW	SWL	DTW	SWL	DTW	SWL	DTW	SWL
		Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.
EW-1	8.62	6.15	2.47	5.93	2.69	5.86	2.76	6.30	2.32
MW-2	7.42	4.37	3.05	4.26	3.16	4.26	3.16	4.60	2.82
MW-3	6.42	5.10	1.32	5.42	1.00	4.93	1.49	5.15	1.17

WELL Name	12/4/90		4/16/91		7/3/91		10/14/91		1/9/92	
	DTW	SWL	DTW	SWL	DTW	SWL	DTW	SWL	DTW	SWL
	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.
EW-1	7.39	2.23	6.02	2.60	6.20	2.42	6.5	2.12	6.20	2.42
MW-2	4.67	2.75	4.31	3.11	4.52	2.9	3.92	3.5	4.43	3.10
MW-3	5.96	1.35	5.25	1.17	5.33	1.09	4.63	1.79	6.50	-0.08

WELL Name	7/15/92		10/19/92		1/11/93		4/19/93	
	DTW	SWL	DTW	SWL	DTW	SWL	DTW	SWL
	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.
EW-1	6.10	2.52	6.1	2.52	5.5	3.12	5.95	2.67
MW-2	4.42	3.00	4.77	2.65	2.9	4.92	4.35	3.07
MW-3	5.23	1.19	5.37	1.05	3.6	2.82	5.1	1.32

TABLE 1(continue)

SUMMARY OF WATER LEVEL DATA

WELL Name	Elev. of TOC (Ft-MSL)	7/13/93		10/15/93		1/19/94		1/4/95	
		DTW Ft.	SWL Ft.	DTW Ft.	SWL Ft.	DTW Ft.	SWL Ft.	DTW Ft.	SWL Ft.
EW-1	8.62	6.2	2.42	6.25	2.37	6.3	2.32	4.75	3.87
MW-2	7.42	4.7	2.72	4.25	3.17	4.9	2.52	3.57	3.85
MW-3	6.42	5.35	1.07	5.35	1.07	5.3	1.12	5.1	1.32
MW-4	7.07*	5.75	1.32	5.80	1.27	5.75	1.32	6.1	0.97

* Adjusted elevation

Note: TOC top of casing
 DTW depth to water table
 SWL static water level above MSL
 MSL mean sea level

TABLE 2

GROUNDWATER MOVEMENT ANALYSIS

Date	4/25/89	11/6/89	2/20/90	5/31/90	9/7/90	12/4/90
Flow Towards	SW	S	S	S	S	S
Gradient	0.001	0.012	0.016	0.0125	0.0115	0.045
Date	4/16/91	7/3/91	10/14/91	1/9/92	7/15/92	10/19/92
Flow Towards	S	S	S	SW	S	S
Gradient	0.014	0.013	0.011	0.0238	0.013	0.0127
Date	1/11/93	4/19/93	7/7/93	10/15/93	1/19/94	1/4/95
Flow Towards	S	SW	SW	S	S	S
Gradient	0.011	0.013	0.013	0.0153	0.0105	0.028

3.0 GROUNDWATER QUALITY

On January 25, 1995, ETS field personnel visited the facility and collected water samples from monitoring well EW1 and MW4 for laboratory analysis. These groundwater samples were sent to a state-certified laboratory for analyses of halocarbons using EPA method 601, total petroleum hydrocarbons (TPH) as gasoline and gasoline constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA method 602.

From the results of the laboratory analysis (Appendix A), water sample taken from well EW1 contained some volatile organic compounds. The VOCs detected in well EW-1 from the January 25, 1995 sampling episode are presented in Table 3.

Groundwater quality results of well MW4 are included in Table 4 of this report. Only gasoline and BTEX was detected at MW4.

TABLE 3

SUMMARY OF QUARTERLY GROUNDWATER QUALITY RESULTS OF WELL EW-1
5800 CHRISTIE AVENUE,
EMERYVILLE, CALIFORNIA

COMPOUNDS	CONCENTRATIONS IN MG/L										
	5/8/89	11/6/89	2/20/90	5/31/90	9/7/90	12/4/90	4/6/91	7/3/91	10/12/92	1/8/92	4/8/92
TPH as GASOLINE	NA	0.74	12.0	24.0	25.0	7.4 ND	51.0	23.0	39.0	<5.0	12.0
BENZENE	ND	0.18	1.3	0.056	1.1	0.18 ND	3.0	0.65	ND	ND	4.0 ND
TOLUENE	0.19	0.039	3.6	6.1	0.8	3.2 1.7	12.0	8.7	1.8 ✓	0.58 ✓	ND 4.0
XYLENES	0.17	0.067	0.047	0.14	0.042	ND <200	ND	ND	ND	ND	ND
ETHYLBENZENE	ND	0.0008	0.0071	0.017	ND	ND <90	ND	ND	ND	ND	ND
HALOCARBONS	0.718	1.1861	4.701	6.876	6.661	3.762	10.6	6.49	2.794	4.459	6.8
TCE	0.64	0.74	1.1	0.83	0.49	1.50, 1.3	1.3 ✓	0.13 ✓	0.73 ✓	1.7 ✓	2.8 ✓
1,1 DCE	0.078	0.0023	0.014	0.069	0.036	ND <30	ND	ND	ND	ND	ND
1,2 DCE	ND	0.35	2.5	0.11	2.4	1.50, 4	3.7 ✓	2.0	0.62	1.52 ✓	ND
1,1,1 TCA	ND	0.026	0.55	1.2	0.51	0.072, 0.25	2.9 ✓	0.25	0.47	0.089	ND
1,1 DCA	ND	0.034	0.46	1.9	1.3	0.46, 1.3	1.8 ✓	2.0	0.63	0.42 ✓	1.3 ✓
1,2 DCA	ND	0.0048	0.034	0.033	0.053	ND <30	ND	ND	0.12 ✓	0.25 ✓	2.7 ✓
VINYL CHLORIDE	ND	0.029 ✓	ND	2.6	1.7	0.23 ✓	0.99 ✓	1.90	0.17 ✓	0.48 ✓	ND
CHLOROETHANE	ND	ND	0.029	0.094	0.15	ND <30	ND	0.17	0.054 ✓	ND	ND
MET. CHLORIDE	ND	ND	0.014	0.04	0.022	ND <40	ND	ND	ND ✓	ND	ND
						SEQUOIA LAB	TAL	CKY	CKY	CKY	CKY
TOTAL VOCs	1.078	1.9261	16.701	30.876	31.661	11.162	61.6	29.49	41.794	<9.459	18.8

NA NOT ANALYSED
ND NOT DETECTED OR BELOW DETECTION LIMITS
VOCs VOLATILE ORGANIC COMPOUNDS (TPH PLUS TOX)

MW 2 & MW 3 = ND for TPH, BTEX & VOCs

no lab analysis report
samples for MW 2 & MW 3 & BTEX analysis needed
no lab analysis report

TABLE 3 (CONTINUE)

SUMMARY OF QUARTERLY GROUNDWATER QUALITY RESULTS OF WELL EW-1
5800 CHRISTIE AVENUE,
EMERYVILLE, CALIFORNIA

COMPOUNDS	CONCENTRATIONS IN MG/L									
	^{EW-2/EW-3?} 7/15/92	10/19/92	1/11/93	3/29/93	7/7/93	10/8/93	1/19/94	1/25/95	8/18/95	
TPH as GASOLINE	100.0 ✓	26.0 ✓	20.0 ✓ <i>is data not checked for gas</i>	15.0 ^{to} ND	40	12 ✓	5	130 ✓ 283	3.2	
BENZENE	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	0.022	0.026	ND	
TOLUENE	4.7 ✓	12.5 ✓	7.5 ✓	12.0 ✓	3.6	11/13/11 ✓	4.3	5.0	0.62	
XYLENES	ND ✓	ND ✓	0.075 ✓	ND ✓	ND ✓	0.081 ✓	0.07	0.048	0.015	
ETHYLBENZENE	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	0.012	0.009	ND	
HALOCARBONS	2.461	5.07	0.065	2.5	1.7	1.81	ND	3.15	0.86	
PCE	ND	ND	0.042 ✓	ND	ND	ND	ND	ND	ND	
TCE	0.68 ✓	0.27	0.023 ✓	2.0 ✓	ND	ND	ND	0.95	0.04	
1,1 DCE	ND	4.8 ✓	ND	0.5 ✓	ND	ND	ND	ND	ND	
1,2 DCE	0.6 ✓	ND	ND	ND	ND	ND	ND	0.4	ND	
1,1,1 TCA	0.42 ✓	ND	ND	ND	ND	0.21 ✓	ND	ND	ND	
1,1 DCA	0.6 ✓	ND	ND	ND	1.7	1.6 ✓	ND	1.8	0.11	
1,2 DCA	0.11 ✓	ND	ND	ND	ND	ND	ND	ND	ND	
VINYL CHLORIDE	0.15 ✓	ND	ND	ND	ND	ND	ND	ND	ND	
CHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MET. CHLORIDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TOTAL VOCs	102.461	31.07	20.065	17.5	41.7	13.81	5	133.15	133.15	

NA NOT ANALYSED
ND NOT DETECTED OR BELOW DETECTION LIMITS
VOCs VOLATILE ORGANIC COMPOUNDS (TPH PLUS TOX)

Plusozet + H2O2 added

naphthalene = .012 ppm

*+33.15
+60.15
133.15*

TABLE 4

SUMMARY OF QUARTERLY GROUNDWATER QUALITY RESULTS OF WELL MW-4
 5800 CHRISTIE AVENUE,
 EMERYVILLE, CALIFORNIA

CONCENTRATIONS IN MG/L

COMPOUNDS	7/13/93	10/8/93	1/19/94	1/25/95
TPH as GASOLINE	<100.0*	2.2 2.2 ✓	0.35	26.0
BENZENE	0.8	0.29 0.29 0.32	0.21	1.4
TOLUENE	0.28	0.22 0.22 0.060	0.025	0.27
XYLENES	0.3	0.2 0.2 0.035	0.037	0.28
ETHYLBENZENE	0.27	0.120 0.12 0.091	0.035	0.56
HALOCARBONS	ND	0.06	ND	ND
PCE	ND	ND	ND	ND
TCE	ND	ND	ND	ND
1,1 DCE	ND	ND	ND	ND
1,2 DCE	ND	ND	ND	ND
1,1,1 TCA	ND	0.005	ND	ND
1,1 DCA	ND	ND	ND	ND
1,2 DCA	ND	0.055 ✓	ND	ND
VINYL CHLORIDE	ND	ND	ND	ND
CHLOROETHANE	ND	ND	ND	ND
MET. CHLORIDE	ND	ND	ND	ND
TOTAL VOCs	<100*	2.26* <i>PNAs = 2.8 nrad</i>	0.35	26.0

* BTEX DO NOT MATCH GASOLINE PATTERN
 NA NOT ANALYSED
 ND NOT DETECTED OR BELOW DETECTION LIMITS
 VOCs VOLATILE ORGANIC COMPOUNDS (TPH PLUS TOX)

4.0 SUMMARY OF FINDINGS

Table 3 presents a summary of analytical results of well EW1 in time series. Table 4 presents the groundwater quality of well MW4. There are several factors that affect the changes in the hydrocarbon concentration. These factors are variations in water table, chemical breakdown due to biodegradation, and unidentified off-site sources.

The chlorinated solvents detected in EW1 most probably were due to soil and groundwater agitation from the adjacent(Lathrop Property) site. Investigation reveals about 30 soil borings and monitoring wells located on the Lathrop property adjacent to our property line. It is obvious that there is no sign of downgradient or off site migration of the chlorinated solvents as indicated by NDs in MW-4(Table 4). Also, elevated level of gasoline was detected in EW1 which may have originated from the adjacent Lathrop property.

MW4 detected elevated levels of BTEX compounds in the initial sample and analysis. The suspected sources of the BTEX compounds may have originated from the upgradient closed underground storage tank or from upgradient asphalt manufacturing plant. Well MW4 is located very close to underground utility lines along Powell Street which may serve as migration conduits from upgradient sources.

APPENDIX A

GROUNDWATER LABORATORY ANALYSIS REPORT

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: February 1, 1995


Mr. Dick Herring/Walter Loo
Croley & Herring Co.
448 Tharp Drive
Moraga, CA 94556

Dear Mr. Herring:

The analytical results for the two (2) water samples (Project: CHIC), received by our Lab on January 25, 1995, are attached. The report also faxed to Mr. Walter Loo at (415)861-3269.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call Mr. John Ackerman, our Customer Service Specialist, or myself, if you have any questions.

Sincerely,



Steven Chen, Ph.D.
Lab Director

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

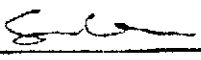
CUSTOMER: CROLEY & HERRING CO., 448 THARP DRIVE, MORAGA, CA 94556
TEL(510)376-3473 FAX(415)861-3269

PROJECT: CHIC
MATRIX: WATER
DATE SAMPLED: 01/24/95 DATE SAMPLE REC'D: 01/25/95 (FED DEX)
DATE ANALYZED: 01/26-31/95
REPORTED TO: MR. DICK HERRING DATE REPORTED: 02/01/95
MR. WALTER LOO/ETS (FAX: 415-861-3269)

SAMPLE I.D.: MW-4 LAB I.D.: 950125-17

*EPA 8015M FOR GASOLINE ANALYSIS; UNIT: UG/L (PPB)

<u>PARAMETER</u>	<u>SAMPLE RESULT</u>	<u>DETECTION LIMIT</u>
<u>TPH as GASOLINE</u>	<u>26,000</u>	<u>50</u>

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: CROLEY & HERRING CO., 448 THARP DRIVE, MORAGA, CA 94556
 TEL (510) 376-3473 FAX (415) 861-3269

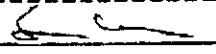
PROJECT: CHICMATRIX: WATERDATE SAMPLE REC'D: 01/25/95 (FED DEX)DATE SAMPLED: 01/24/95DATE ANALYZED: 01/26-31/95REPORTED TO: MR. DICK HERRINGDATE REPORTED: 02/01/95MR. WALTER LOO/ETS (FAX: 415-861-3269)SAMPLE I.D.: MW-4LAB I.D.: 950125-17

*EPA 601 FOR PURGEABLE HALOCARBONS ANALYSIS; UNIT: UG/L (PPB)

PARAMETER	SAMPLE RESULT	DETECTION LIMIT
Chloromethane	ND	5
Bromoethane	ND	5
Vinyl Chloride	ND	5
Chloroethane	ND	5
Methylene Chloride	ND	5
1,1-Dichloroethene	ND	1
1,1-Dichloroethane	ND	1
Trans-1,2-Dichloroethene	ND	1
Chloroform	ND	1
1,2-Dichloroethane	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
Bromodichloromethane	ND	1
1,2-Dichloropropane	ND	1
Cis-1,3-Dichloropropene	ND	1
Trichloroethene	ND	1
Dibromochloromethane	ND	1
1,1,2-Trichloroethane	ND	1
Trans-1,3-dichloropropene	ND	1
2-Chloroethylvinylether	ND	5
Bromoform	ND	5
Tetrachloroethene	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Dichlorodifluoromethane	ND	5
Trichlorofluoromethane	ND	5

ND = The concentration is below the detection limit or non-detected

* = Performed by GC/MS Method (EPA 8240)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: CROLEY & HERRING CO., 448 THARP DRIVE, MORAGA, CA 94556
TEL(510)376-3473 FAX(415)861-3269

PROJECT: CHIC
 MATRIX: WATER
 DATE SAMPLED: 01/24/95
 REPORTED TO: MR. DICK HERRING
MR. WALTER LOO/ETS (FAX: 415-861-3269)

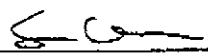
DATE SAMPLE REC'D: 01/25/95 (FED DEX)DATE ANALYZED: 01/26-31/95DATE REPORTED: 02/01/95SAMPLE I.D.: MW-4LAB I.D.: 950125-17

*EPA 602 FOR PURGEABLE AROMATICS ANALYSIS; UNIT: UG/L (PPB)

<u>PARAMETER</u>	<u>SAMPLE RESULT</u>	<u>DETECTION LIMIT</u>
Benzene	1,400	1
Chlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Ethylbenzene	560	1
Toluene	270	1
Xylenes, Total	280	2

COMMENTS

ND = The concentration is below the detection limit or non-detected
 * = Performed by GC/MS (EPA 624)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: CROLEY & HERRING CO., 353 BEACON RIDGE LANE,
WALNUT CREEK, CA 94596 TEL(510)939-1118

PROJECT: CHIC
MATRIX: WATER DATE SAMPLE REC'D: 01/25/95 (FED DEX)
DATE SAMPLED: 01/24/95 DATE ANALYZED: 01/26-31/95
REPORTED TO: MR. DICK HERRING DATE REPORTED: 02/01/95
MR. WALTER LOO/ETS (FAX: 415-861-3269)

SAMPLE I.D.: EW-1 LAB I.D.: 950125-16

*EPA 8015M FOR GASOLINE ANALYSIS; UNIT: UG/L (PPB)

<u>PARAMETER</u>	<u>SAMPLE RESULT</u>	<u>DETECTION LIMIT</u>
TPH as GASOLINE	130,000	50

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: CROLEY & HERRING CO., 448 THARP DRIVE, MORAGA, CA 94556
TEL (510) 376-3473 FAX (415) 861-3269

PROJECT: CHIC DATE SAMPLE REC'D: 01/25/95 (FED DEX)
 MATRIX: WATER DATE ANALYZED: 01/26-31/95
 DATE SAMPLED: 01/24/95 DATE REPORTED: 02/01/95
 REPORTED TO: MR. DICK HERRING
MR. WALTER LOO/ETS (FAX: 415-861-3269)

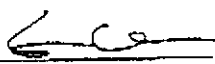
SAMPLE I.D.: EW-1LAB I.D.: 950125-16

*EPA 602 FOR PURGEABLE AROMATICS ANALYSIS; UNIT: UG/L (PPB)

<u>PARAMETER</u>	<u>SAMPLE RESULT</u>	<u>DETECTION LIMIT X5</u>
Benzene	26	1
Chlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Ethylbenzene	9	1
Toluene	5,000	1
Xylenes, Total	48	2

COMMENTS

ND = The concentration is below the detection limit or non-detected
 * = Performed by GC/MS (EPA 624)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

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SAMPLE I.D.: EW-1 LAB I.D.: 950125-16

*EPA 601 FOR PURGEABLE HALOCARBONS ANALYSIS; UNIT: UG/L (PPB)

PARAMETER	SAMPLE RESULT	DETECTION LIMIT X100
Chloromethane	ND	5
Bromoethane	ND	5
Vinyl Chloride	ND	5
Chloroethane	ND	5
Methylene Chloride	ND	5
1,1-Dichloroethene	ND	1
1,1-Dichloroethane	1,800	1
Trans-1,2-Dichloroethene	400	1
Chloroform	ND	1
1,2-Dichloroethane	ND	1
1,1,1-Trichloroethane	ND	1
Carbon Tetrachloride	ND	1
Bromodichloromethane	ND	1
1,2-Dichloropropane	ND	1
Cis-1,3-Dichloropropene	ND	1
Trichloroethene	950	1
Dibromochloromethane	ND	1
1,1,2-Trichloroethane	ND	1
Trans-1,3-dichloropropene	ND	1
2-Chloroethylvinylether	ND	5
Bromoform	ND	5
Tetrachloroethene	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Chlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
Dichlorodifluoromethane	ND	5
Trichlorofluoromethane	ND	5

ND = The concentration is below the detection limit or non-detected
* = Performed by GC/MS Method (EPA 8240)

Data Reviewed and Approved by: 
CAL-DHS ELAP CERTIFICATE No.: 1555

**ENVIRO-CHEM, INC.
LABORATORIES**

1214 E. Lexington Ave.
Pomona, CA 91766

(909) 590-5905 • Fax: (909) 590-5907

CHAIN of CUSTODY RECORD

Lab Project # CHIC

DATE: 1/24/95
PAGE: 1 of 1

Crosby & Harris CA-DHS ELAP CERTIFICATE # 1555

REPORT TO: <u>DICK HERRING (CHIC)</u>	PROJECT NAME: <u>CHIC</u>	TURN AROUND TIME DESIRED <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> Others _____
STREET: <u>353 BEACON RIDGE LANE</u>	PROJECT CONTACT: <u>WALTER LOO</u>	Confirmed By: _____
CITY: <u>WALNUT CREEK</u> STATE: <u>CA</u> ZIP: <u>94596</u>	SAMPLET(S) SIGNATURE: <u>[Signature]</u>	
TEL: <u>(415) 861-0810</u> FAX: <u>(415) 861-3269</u>		

SHIPPING INFORMATION: <u>FEDEX</u>	AFTER ANALYSIS, SAMPLES ARE TO BE: <input checked="" type="checkbox"/> DISPOSED OF <input type="checkbox"/> RETURNED TO CLIENT <input type="checkbox"/> STORED (30 days) <input type="checkbox"/> OTHER: _____
RELINQUISHED BY: (Signature) _____	RECEIVED BY: (Signature) <u>[Signature]</u> DATE: <u>1/25/95</u> TIME: <u>2:35pm</u>
RELINQUISHED BY: (Signature) _____	RECEIVED BY: (Signature) <u>[Signature]</u> DATE: _____ TIME: _____
RELINQUISHED BY: (Signature) _____	RECEIVED BY: (Signature) <u>[Signature]</u> DATE: _____ TIME: _____

SAMPLE I.D.	LAB I.D.	SAMPLING DATE/TIME	MATRIX	# of Containers	ANALYSIS REQUESTED	SAMPLE RECEIVED CONDITION	Sample Stored Location
<u>EW1</u>	<u>950125-16</u>	<u>1/24/95</u> <u>10 AM</u>	<u>WATER</u>	<u>2</u>	<u>TPH (GAS)</u> <u>601, 602</u>	<u>Chilled/Sealed</u> <u>OK</u>	<u>RS</u>
<u>MW4</u>	<u>217</u>	<u>1/24/95</u> <u>10 AM</u>	<u>WATER</u>	<u>2</u>	<u>TPH (GAS)</u> <u>601, 602</u>	<u>"</u>	<u>↓</u>

DISTRIBUTION: WHITE WITH REPORT • YELLOW TO COURIER

TOTAL P. 03

03-02-1895 10:54AM Enviro-Chem Inc. 909 590 5907 P. 03