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LOS ANGELES REGION

Data Report for January and July 1996 Groundwater Sampling and Analysis at the Calmar Facility City of Industry, California

November 21, 1996
2455.00-15

Prepared for
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, California 91754

Levine·Fricke·Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

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November 21, 1996 2455.00-15

Mr. Julio Lara
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, California 91754

Subject: Data Report for Groundwater Sampling and Analysis for January and July 1996, Calmar Facility, City of Industry, California (RWQCB File #102.55)

Dear Mr. Lara:

Attached is the January and July 1996 groundwater sampling and analysis report for Calmar's facility located at 333 South Turnbull Canyon Road in the City of Industry, California. If you have any questions or comments regarding this report, please call me at (714) 955-1390.

Sincerely,

David E. Field, R.G.
Senior Associate Hydrogeologist

Attachment

cc: Aldie Johnson, Calmar
Bruce Howard, Latham & Watkins

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CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a Levine·Fricke·Recon California Registered Geologist.

11/24/96

David E. Field, R.G. Date
California Registered Geologist #4629

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1.0 INTRODUCTION

At the request of the California Regional Water Quality Control Board, Los Angeles, Calmar, Inc., is currently conducting groundwater monitoring at its facility located at 333 South Turnbull Canyon Road in the City of Industry, Los Angeles County, California ("the Site"; Figure 1). This data report summarizes the results for groundwater sampling conducted by Levine·Fricke·Recon Inc. (LFR; formerly Levine·Fricke, Inc. and Recon Environmental) on January 25 and 26, 1996, and July 23 and 24, 1996.

2.0 SCOPE OF WORK PERFORMED

LFR performed the following work at the Site:

- Depth-to-groundwater measurements (monitoring wells MW-1 through MW-7 and piezometers P-1, P-2, and P-3) on January 25, 1996, and July 23, 1996
- Groundwater sampling (monitoring wells MW-1 through MW-7 and piezometers P-1, P-2, and P-3) on January 25 and 26, 1996, and July 23 and 24, 1996

Details of field procedures used by LFR are presented in Appendix A.

3.0 GROUNDWATER ELEVATION AND FLOW DIRECTION

Depth to groundwater measurements, along with historical groundwater elevation data collected at the Site, are summarized in Table 1. Groundwater elevation data from January 25, 1996, and July 23, 1996, were used to construct groundwater elevation contour maps for the Site (Figures 2 and 3, respectively). As shown in Figures 2 and 3, the general horizontal flow direction interpreted from January and July 1996 data is consistent with that previously interpreted for the Site.

During the January and July 1996 measurements, the groundwater elevation at MW-3 appeared to be higher, relative to groundwater elevations in other wells, than during previous measuring events. A groundwater high in the northwestern portion of the Site appears to have begun to form as early as April 1994. In Calmar's January 3, 1995 report, "Soil and Groundwater Investigation," Figure 15 shows groundwater elevation contours from April 28, 1994. These contours appear to be spreading near well P-1. In measurements taken January 26, 1995 (Figure 3 of Data Report for Ground-Water Sampling and Analysis at the Calmar Facility, dated April 25, 1995), a groundwater high appeared to be developing near P-1. This high now appears to be in the vicinity of M-3.

This change in groundwater elevation contours appears to be related to the rise in groundwater levels at the Site that began in 1993. Changes in groundwater elevation configuration may be a result of this rise and indicate that local soil lithology may be causing this change. Generally, groundwater elevations have risen approximately 15 feet since 1992. However, in 1996, this rise appears to have stabilized.

4.0 ANALYTICAL RESULTS FOR GROUNDWATER SAMPLING

Groundwater samples collected in January 1996 were submitted to Thermo Analytical (formerly Terra Tech Laboratory) of Santa Ana, California. Due to the closing of Thermo Analytical, groundwater samples collected in July 1996 were submitted to BC Analytical of Anaheim, California. All samples were submitted under chain-of-custody documentation for analysis of halogenated organic compounds using EPA Method 8010.

Analytical results for groundwater samples collected on January 25 and 26, 1996, are summarized in Table 2 and Figure 4. Analytical results for groundwater samples collected on July 23 and 24, 1996, are summarized in Table 2 and Figure 5.

Tetrachloroethylene (PCE) concentrations in well MW-3 have continued to decline. PCE concentrations rose after the rise in groundwater elevations in 1993 and have declined steadily since. Current PCE concentrations are now lower by approximately 50 parts per billion than before the concentration increase in 1993. The decline in PCE concentrations appears to be consistent and does not yet appear to be leveling off. Other chemicals detected at the Site also appear to be decreasing in concentration.

Table 1 :
SUMMARY OF GROUNDWATER ELEVATION DATA
Calmar-City of Industry
LF 2455

Well Number	Well Elevation (feet-MSL)	Date Sampled	Depth to Water (feet)	Ground-Water Elevation (feet-MSL)	Relative Change (feet)
MW-1	303.32	3/29/89	35.84	267.48	--
		4/29/91	42.65	260.67	-6.81
		5/10/91	42.72	260.60	-0.07
		7/30/91	43.52	259.80	-0.80
		10/11/91	44.24	259.08	-0.72
		3/25/92	43.77	259.55	0.47
	303.16 *	4/15/93	37.01	266.15	6.60
		7/30/93	34.62	268.54	2.39
		11/30/93	32.92	270.24	1.70
		4/28/94	31.11	272.05	1.81
		7/27/94	30.89	272.27	0.22
		10/6/94	31.31	271.85	-0.42
		1/26/95	30.97	272.19	0.34
		3/28/95	29.77	273.39	1.20
		1/25/96	**27.54**	**275.62**	**2.23**
		7/23/96	**27.67**	**275.49**	**-0.13**
MW-2	303.29	3/29/89	35.14	268.15	--
		4/29/91	41.38	261.91	-6.24
		5/10/91	41.45	261.84	-0.07
		7/30/91	42.12	261.17	-0.67
		10/11/91	42.67	260.62	-0.55
		3/25/92	42.21	261.08	0.46
	303.15 *	4/15/93	36.10	267.05	5.97
		7/30/93	33.86	269.29	2.24
		11/30/93	32.22	270.93	1.64
		4/28/94	30.42	272.73	1.80
		7/27/94	30.21	272.94	0.21
		10/6/94	30.65	272.50	-0.44
		1/26/95	30.29	272.86	0.36
		3/28/95	29.09	274.06	1.20
		1/25/96	**26.77**	**276.38**	**2.32**
		7/23/96	**26.90**	**276.25**	**-0.13**
MW-3	302.67	3/29/89	35.01	267.66	--
		4/29/91	41.67	261.00	-6.66
		5/10/91	41.72	260.95	-0.05
		7/30/91	42.50	260.17	-0.78
		10/11/91	43.11	259.56	-0.61
		3/25/92	42.50	260.17	0.61
	302.36 *	4/15/93	35.92	266.44	6.27
		7/30/93	33.71	268.65	2.21
		11/30/93	NA	--	--
		4/28/94	30.11	272.25	3.60
		7/27/94	29.92	272.44	0.19
		10/6/94	30.34	272.02	-0.42
		1/26/95	29.46	272.90	0.88
		3/28/95	28.43	273.93	1.03
		1/25/96	**26.34**	**276.02**	**2.09**
		7/23/96	**26.07**	**276.29**	**0.27**

Table 1 :
SUMMARY OF GROUNDWATER ELEVATION DATA
Calmar-City of Industry
LF 2455

Well Number	Well Elevation (feet-MSL)	Date Sampled	Depth to Water (feet)	Ground-Water Elevation (feet-MSL)	Relative Change (feet)
MW-4	304.78	4/15/93	35.85	268.93	--
		7/30/93	33.96	270.82	1.89
		11/30/93	32.46	272.32	1.50
		4/28/94	30.76	274.02	1.70
		7/27/94	30.56	274.22	0.20
		10/6/94	31.01	273.77	-0.45
		1/26/95	30.61	274.17	0.40
		3/28/95	29.41	275.37	1.20
		1/25/96	**27.42**	**277.36**	**1.99**
		7/23/96	**27.52**	**277.26**	**-0.10**
MW-5	304.09	4/15/93	34.09	270.00	--
		7/30/93	32.31	271.78	1.78
		11/30/93	30.9	273.19	1.41
		4/28/94	29.27	274.82	1.63
		7/27/94	29.04	275.05	0.23
		10/6/94	29.46	274.63	-0.42
		1/26/95	28.98	275.11	0.48
		3/28/95	27.8	276.29	1.18
		1/25/96	**25.97**	**278.12**	**1.83**
		7/23/96	**26.03**	**278.06**	**-0.06**
MW-6	303.50	7/30/93	33.87	269.63	--
		11/30/93	32.37	271.13	1.50
		4/28/94	30.59	272.91	1.78
		7/27/94	30.35	273.15	0.24
		10/6/94	30.75	272.75	-0.40
		1/26/95	30.42	273.08	0.33
		3/28/95	29.21	274.29	1.21
		1/25/96	**27.09**	**276.41**	**2.12**
		7/23/96	**27.21**	**276.29**	**-0.12**
MW-7	303.04	7/30/93	34.00	269.04	--
		11/30/93	32.24	270.80	1.76
		4/28/94	30.43	272.61	1.81
		7/27/94	30.20	272.84	0.23
		10/6/94	30.61	272.43	-0.41
		1/26/95	30.78	272.26	-0.17
		3/28/95	29.05	273.99	1.73
		1/25/96	**26.90**	**276.14**	**2.15**
		7/23/96	**27.05**	**275.99**	**-0.15**
P-1	301.99	3/29/89	34.06	267.93	--
		4/29/91	40.59	261.40	-6.53
		5/10/91	40.66	261.33	-0.07
		7/30/91	41.40	260.59	-0.74
		10/11/91	41.95	260.04	-0.55
		3/25/92	41.16	260.83	0.79
	301.65 *	4/15/93	34.94	266.71	5.88
		7/30/93	32.76	268.89	2.18
		11/30/93	NA	--	--
		4/28/94	29.11	272.54	3.65
		7/27/94	29.04	272.61	0.07
		10/6/94	29.05	272.60	-0.01
		1/26/95	28.53	273.12	0.52
		3/28/95	27.78	273.87	0.75
		1/25/96	**26.02**	**275.63**	**1.76**
		7/23/96	**26.11**	**275.54**	**-0.09**

Table 1 :
SUMMARY OF GROUNDWATER ELEVATION DATA
Calmar-City of Industry
LF 2455

Well Number	Well Elevation (feet-MSL)	Date Sampled	Depth to Water (feet)	Ground-Water Elevation (feet-MSL)	Relative Change (feet)
P-2	303.09	3/29/89	35.14	267.95	--
		4/29/91	42.04	261.05	-6.90
		5/10/91	40.10	262.99	1.94
		7/30/91	42.82	260.27	-2.72
		10/11/91	43.43	259.66	-0.61
		3/25/92	43.01	260.08	0.42
		4/15/93	36.58	266.51	6.43
		7/30/93	34.25	268.84	2.33
		11/30/93	32.59	270.50	1.66
		4/28/94	30.78	272.31	1.81
		7/27/94	30.52	272.57	0.26
		10/6/94	30.94	272.15	-0.42
		1/26/95	30.62	272.47	0.32
		3/28/95	29.43	273.66	1.19
		1/25/96	**27.18**	**275.91**	**2.25**
		7/23/96	**27.31**	**275.78**	**-0.13**
P-3	305.11	3/29/89	36.59	268.52	--
		4/29/91	40.59	264.52	-4.00
		5/10/91	40.68	264.43	-0.09
		7/30/91	41.86	263.25	-1.18
		10/11/91	42.07	263.04	-0.21
		3/25/92	41.21	263.90	0.86
	305.01 *	4/15/93	35.12	269.89	5.99
		7/30/93	33.96	271.05	1.16
		11/30/93	32.12	272.89	1.84
		4/28/94	30.48	274.53	1.64
		7/27/94	30.33	274.68	0.15
		10/6/94	30.76	274.25	-0.43
		1/26/95	30.04	274.97	0.72
		3/28/95	28.62	276.39	1.42
		1/25/96	**26.64**	**278.37**	**1.98**
		7/23/96	**26.66**	**278.35**	**-0.02**

NOTES:

MSL = Mean Sea Level
* = Resurveyed after top of casing trimmed in April 1993.
NA = No access (area flooded).

QA/QC Vhom

Table 2 :
SUMMARY OF DETECTED
VOCs (EPA Method 8010/601) and BTEX (EPA Method 8020/602) IN GROUNDWATER SAMPLES
Calmar-City of Industry
LF 2455
All concentrations reported in micrograms per liter (µg/L)

Well Number	Date Sampled	PCE	TCE	1,1-DCE	1,1-DCA	cis-1,2-DCE	1,2-DCA	1,1,1-TCA	Benzene	Toluene	Ethylbenzene	Xylene	Freon 113	Vinyl Chloride	Trans-1,2-DCE	Other Compounds
MW-1	9/1/88 *	20	23	6.1	ND	TR	ND	6.5	TR	TR	<0.5	TR	NR	NR	NR	
	4/29/91 **	34	34	19	ND	2.9	ND	4.5	<1.0	<1.0	<1.0	<1.0	NR	<0.5	ND	
	10/11/91	32	27	16.0	ND	2	ND	3	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<1.0	Methylene chloride 1.0***; Freon-TF 44.0
	3/25/92	12	16	4.4	ND	1.7	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	NR	<0.5	<0.5	
	4/16/93	18	15	11	<1.0	<1.0	<1.0	2.0	<1.0	1.7	<1.0	<1.0	NR	<1.0	<1.0	
	8/3/93	13	ND	7	ND	ND	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethene 18.0
	11/30/93	12.0	8.0	3.5	<1.0	<1.0	<1.0	1.5	NA	NA	NA	NA	NR	<1.0	ND	
	3/28/94	18	9.9	5.2	<1.0	<1.0	<1.0	2.6	NA	NA	NA	NA	NR	<1.0	ND	
	6/21/94	14	6.2	3.4	<1.0	<1.0	<1.0	1.7	NA	NA	NA	NA	NR	<1.0	ND	
	10/6/94	13	6	2.7	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	10/6/94 (D)	13	5.7	2.6	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/26/95	13	6.1	1.5	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/28/95	12	5.9	1.6	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.22	<0.9	Chloroform 0.35; Dichloromethane 2.5
	3/28/95 (D)	9	3.5	4.4	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.22	<0.9	Chloroform 0.14; Dichloromethane 1.8
	1/26/96	12	4.5	2.1	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	8.7	2.8	0.79	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	3.4	<0.5	<0.5	
	7/24/96 (D)	9.3	3.1	0.86	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	3.7	<0.5	<0.5	
MW-2	9/1/88 *	7	42	4	ND	1.9	ND	0.77	<0.5	<0.5	<0.5	<0.5	NR	NR	NA	
	4/29/91 **	11	140	52	5.4	2.2	ND	73	<1.0	<1.0	<1.0	<1.0	NR	<0.5	NA	
	10/11/91	13	5	2	ND	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<1.0	Freon-TF 15.0
	3/25/92	7.2	84	20	2.5	2	<1.0	33	<0.5	<0.5	<0.5	<0.5	NR	<1.0	<1.0	
	4/15/93	8.2	250	96	20	3.9	<1.0	98	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/2/93	4.7	110	49	9.2	1.6	<1.0	34	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 9.6; 1,2-Dichloropropane 200.0
	12/1/93	6.2	200	26	4.2	1.7	<1.0	13	NA	NA	NA	NA	NR	<0.27	<0.22	
	3/29/94	7.3	260	40	6.7	1.9	<1.0	20	NA	NA	NA	NA	NR	<1.0	ND	Dichloromethane 4.6
	6/22/94	4.2	<5.0	22	4.8	<1.0	<1.0	12	NA	NA	NA	NA	NR	<0.22	<0.43	
	10/6/94	6.2	44	8.2	2.6	<1.0	<1.0	4.9	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/26/95	5.7	200	31	7.9	<1.0	<1.0	15	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/28/95	5.3	100	22	4.7	1.6	<1.0	7.3	NA	NA	NA	NA	NR	<0.22	<0.09	Dichloromethane 8.3
	1/25/96	4.1	130	13	3.1	<1.0	<1.0	3.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	1/25/96 (D)	4.2	130	13	3.0	<1.0	<1.0	2.9	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/23/96	2.4	92	10	1.8	<1.0	<1.0	1.7	NA	NA	NA	NA	<1.0	<0.22	<0.09	
MW-3	9/1/88 *	47	20	79	36	TR	0.98	2.3	<0.5	<0.5	TR	<0.5	NR	NR	NR	
	4/29/91 **	170	210	27	2.8	ND	ND	5.4	<1.0	<1.0	<1.0	<1.0	NR	<0.5	ND	
	4/15/93	170	24	71	7.5	<1.0	<1.0	4.2	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/2/93	160	23	47	9.6	ND	<1.0	2.3	<5.0	<5.0	<5.0	<5.0	NR	<1.0	<1.0	
	11/30/93	360	19	17	1.0	<1.0	<1.0	2.5	NA	NA	NA	NA	NR	<1.0	<1.0	
	11/30/93 (D)	320	19	16	<1.0	<1.0	<1.0	2.5	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/94	410	17	12	1.1	1.2	<1.0	2.9	NA	NA	NA	NA	NR	<1.0	<1.0	Dichloromethane 4.0
	6/22/94	160	11	16	<1.0	<1.0	<1.0	1.6	NA	NA	NA	NA	NR	<0.22	0.51	
	10/6/94	110	28	61	12	2.2	<1.0	2.8	<1.0	6.0	<1.0	<1.0	NR	<1.0	<0.43	Dichloromethane 2.1
	1/26/95	170	8.6	7.1	<1.0	<1.0	<1.0	1.4	NA	NA	NA	NA	NR	<1.0	0.41	
	3/28/95	160	17	53	1.4	1.4	<1.0	2.1	NA	NA	NA	NA	<1.0	NR	<1.0	Chloroform 0.69; Dichloromethane 4.7
	1/26/96	130	76	130	22	<1.0	<1.0	3.7	NA	NA	NA	NA	NR	3.9	<1.0	
	7/23/96	120	34	28	1.3	<1.0	<1.0	1.6	NA	NA	NA	NA	<1.0	<1.0	<1.0	
MW-4	4/16/93	12	4.5	5.4	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	4/23/93	12	4.9	6.3	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/3/93	8.9	3.6	1.9	ND	ND	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 10.0
	11/30/93	10	2.7	1.3	<1.0	<1.0	<1.0	1.7	NA	NA	NA	NA	NR	<1.0	ND	
	3/28/94	16	5.8	2.7	<1.0	<1.0	<1.0	2.8	NA	NA	NA	NA	NR	<1.0	ND	
	4/23/94	12	4.9	6.3	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	6/21/94	10	3.4	3.7	<1.0	<1.0	<1.0	1.2	NA	<1.0	NA	NA	NR	<1.0	ND	
	10/7/94	12	4.4	1.9	<1.0	<1.0	<1.0	1.5	<1.0	6.8	<1.0	<1.0	NR	<1.0	<1.0	
	1/26/95	12	4.1	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	10	2.9	3.7	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	<1.0	<1.0	Chloroform 0.09; Dichloromethane 7.5
	1/25/96	2.5	88	1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	8.1	2.5	0.52	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	2.7	<0.5	<0.5	

Table 2 .
SUMMARY OF DETECTED
VOCs (EPA Method 8010/601) and BTEX (EPA Method 8020/602) IN GROUNDWATER SAMPLES
Calmar-City of Industry
LF 2455
All concentrations reported in micrograms per liter (µg/L)

Well Number	Date Sampled	PCE	TCE	1,1-DCE	1,1-DCA	cis-1,2-DCE	1,2-DCA	1,1,1-TCA	Benzene	Toluene	Ethylbenzene	Xylene	Freon 113	Vinyl Chloride	Trans-1,2-DCE	Other Compounds
MW-5	4/16/93	5.0	2.8	2.4	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	4/23/93	5.9	2.2	1.0	<1.0	<1.0	<1.0	1.7	<1.0	1.6	<1.0	<1.0	NR	<1.0	<1.0	
	8/3/93	3.3	1.7	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 38.0
	12/1/93	4.2	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.27	<1.0	
	3/28/94	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	4/23/94	5.9	2.2	1.0	<1.0	<1.0	<1.0	1.7	<1.0	1.6	<1.0	<1.0	NR	<1.0	<1.0	
	6/21/94	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NR	<1.0	<1.0	
	10/7/94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/26/95	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	Dichloromethane 7.2
	1/25/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	<0.5	0.59	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
MW-6	8/3/93	4.8	12	2.6	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 14.0
	8/10/93	11	110	7.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NR	<2.0	<2.0	
	11/30/93	5.0	250	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<0.23	
	3/28/94	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	6/22/94	6.3	55	4.5	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.22	<0.43	
	6/22/94 (D)	5.9	48	3.2	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.22	<0.43	
	10/7/94	6.7	36	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/27/95	3	220	<1.0	<1.0	<1.0	<1.0	1.4	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	3.7	47	2.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	Chloroform 0.11; Dichloromethane 5.5
	1/25/96	3.3	280	1.8	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	2.4	77	0.71	<0.5	0.61	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
MW-7	8/3/93	3.7	16	12	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/10/93	3.9	8.3	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/10/93 (D)	3.1	11	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	11/30/93	4.9	11	7.7	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/28/94	6.6	9.9	6.5	<1.0	<1.0	<1.0	1.1	NA	NA	NA	NA	NR	<1.0	<1.0	
	6/22/94	5.2	7.1	7.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.22	<0.43	
	10/7/94	5.8	6	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/27/95	5.4	38	22	1.1	<1.0	<1.0	1.1	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	3.8	4.4	3.6	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	Chloroform 0.08; Dichloromethane 5.2
	1/25/96	2.2	39	65	4.2	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	2.3	<1.0	
	7/24/96	0.87	43	80	2.8	2.3	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
P-1	10/11/91	10	5	12	ND	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<1.0	Methylene chloride 1.0***; Freon-TF 5.0
	3/25/92	13	6.9	41	ND	ND	<1.0	2.4	<0.5	2	<0.5	<0.5	NR	<1.0	<1.0	
	4/16/93	18	6.0	55	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	4/16/93 (D)	16	5.7	57	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/2/93	14	7.8	49	1.6	ND	<1.0	3.2	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	12/1/93	20	7.5	69	<1.0	<1.0	<1.0	2.5	NA	NA	NA	NA	NR	<0.27	<0.22	
	3/29/94	22	11	90	2.1	<1.0	<1.0	3	NA	NA	NA	NA	NR	0.59	<1.0	Dichloromethane 5.2
	6/22/94	18	8.4	68	<1.0	<1.0	<1.0	1.7	NA	<1.0	NA	NA	NR	<0.22	<0.43	
	10/6/94	21	9.5	120	1.9	<1.0	<1.0	2.6	<1.0	12	<1.0	<1.0	NR	<1.0	<1.0	Dichloromethane 3.3
	1/27/95	13	3.9	30	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	1/27/95 (D)	15	4.6	36	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	13	6.1	51	1.4	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	Chloroform 0.20; Dichloromethane 3.7
	1/26/96	23	29	100	3.7	<1.0	<1.0	2.1	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/23/96	32	29	120	1.4	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	<1.0	<1.0	

Table 2
SUMMARY OF DETECTED
VOCs (EPA Method 8010/601) and BTEX (EPA Method 8020/602) IN GROUNDWATER SAMPLES
Calmar-City of Industry
LF 2455
All concentrations reported in micrograms per liter (µg/L)

Well Number	Date Sampled	PCE	TCE	1,1-DCE	1,1-DCA	cis-1,2-DCE	1,2-DCA	1,1,1-TCA	Benzene	Toluene	Ethylbenzene	Xylene	Freon 113	Vinyl Chloride	Trans-1,2-DCE	Other Compounds
P-2	5/13/91 **	20	5.7	ND	ND	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	NR	<1.0	ND	
	10/11/91	14	7	4	ND	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<1.0	Freon-TF 15.0; Chloromethane 1.0 Methylene chloride 1.0***
	3/25/92	7.4	7.5	3.9	ND	ND	<1.0	0.60	<0.5	<0.5	<0.5	<0.5	NR	<0.5	<0.5	
	4/15/93	18	140	58	8.4	12	<1.0	1.1	<1.0	1.2	<1.0	<1.0	NR	<1.0	<1.0	
	8/3/93	12	93	ND	8.3	9.4	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 4.1
	11/30/93	11	210	45	8.3	11	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	ND	
	3/29/94	70	230	57	9.2	8.6	<1.0	2.4	NA	NA	NA	NA	NR	0.37	1.5	Dichloromethane 4.3; 1,1,2-TCA 0.20
	6/21/94	44	98	47	6.3	<1.0	<1.0	1.3	NA	NA	NA	NA	NR	<1.0	ND	
	6/21/94 (D)	48	91	33	4.4	<1.0	<1.0	1.4	NA	NA	NA	NA	NR	<1.0	ND	
	10/6/94	44	130	43	6.4	9.5	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	NR	0.60	<1.0	Dichloromethane 1.8; 1,1,2-TCA 0.52
	1/27/95	150	130	44	4.2	<1.0	<1.0	3.2	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	130	110	48	5.6	7.3	<1.0	3.7	NA	NA	NA	NA	NR	<0.5	0.19	Chloroform 0.18; Dichloromethane 2.6
	1/26/96	110	200	68	10	<1.0	<1.0	10.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	79	51	26	3.6	2.8	<0.5	3.4	NA	NA	NA	NA	<0.5	<0.5	<0.5	
P-3	5/13/91 **	5.2	2.3	ND	ND	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	NR	<1.0	ND	
	10/11/91	7	3	ND	ND	ND	ND	ND	<1.0	2	<1.0	<1.0	NR	<5.0	<1.0	Freon-TF 4.0; Chloroform 2.0 Methylene chloride 1.0***
	3/25/92	4.9	3.8	1.7	ND	ND	<0.5	0.7	<0.5	2.7	<0.5	<0.5	NR	<0.50	<0.50	
	4/15/93 (D)	6.7	4.5	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	4/15/93	6.5	4.3	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/2/93	4	3.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	Chloromethane 15.0
	12/1/93	5.7	4.3	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NR	<0.27	<0.22	
	3/28/94	8	4.5	1.1	<1.0	<1.0	<1.0	1.1	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/28/94 (D)	8	4.7	1.7	<1.0	<1.0	<1.0	1.1	NA	NA	NA	NA	NR	<1.0	ND	
	6/21/94	5.7	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	ND	
	10/7/94	6	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	1/26/95	5	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<0.1	<1.0	Dichloromethane 7.4
	1/25/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	1.4	<0.5	<0.5	
Equipment Blanks	11/30/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	ND	
	12/1/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NR	<0.27	<0.22	
	4/15/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	1.2	<1.0	<1.0	NR	<1.0	<1.0	
	4/16/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	4/23/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/2/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	8/3/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NR	<1.0	<1.0	
	8/10/93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	6/21/94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	ND	
	10/6/94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	10/7/94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<1.0	<1.0	
	3/28/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	3/29/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	Dichloromethane 5.5
	1/26/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NR	<1.0	<1.0	
	7/24/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	
Trip Blanks	1/27/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	
	7/24/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	

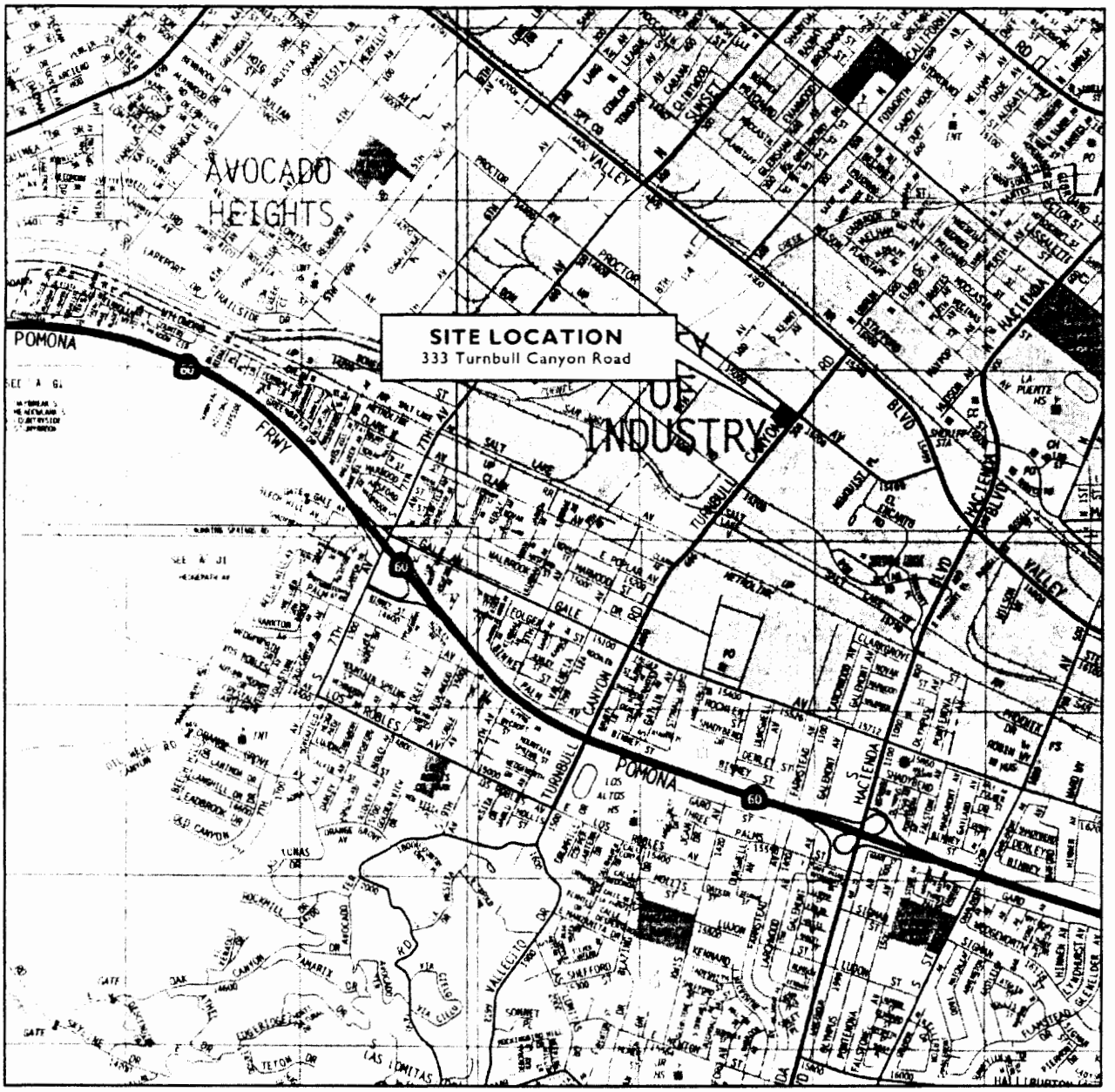
NOTES:

< Designates less than laboratory detection limit.
PCE Tetrachloroethene
TCE Trichloroethene
1,1-DCE 1,1-Dichloroethene
1,1-DCA 1,1-Dichloroethane
cis-1,2-DCE cis-1,2-Dichloroethene
1,2-DCA 1,2-Dichloroethane

1,1,1-TCA 1,1,1-Trichloroethane
ND Not Detected (laboratory detection limits unavailable)
TR Trace, below detection limit (per Camp Dresser & McKee Inc., 1991)
NA Not Analyzed
NR Not Reported
D Duplicate sample

*Report by BCL Associates, Inc. October 1988
**Report by Camp, Dresser & McKee, Inc., May 1991
***10/11/91 Methylene Chloride detected at 1.0 µg/l in blank method

QA/QC Vmc



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0 1/4 1/2 1 mile

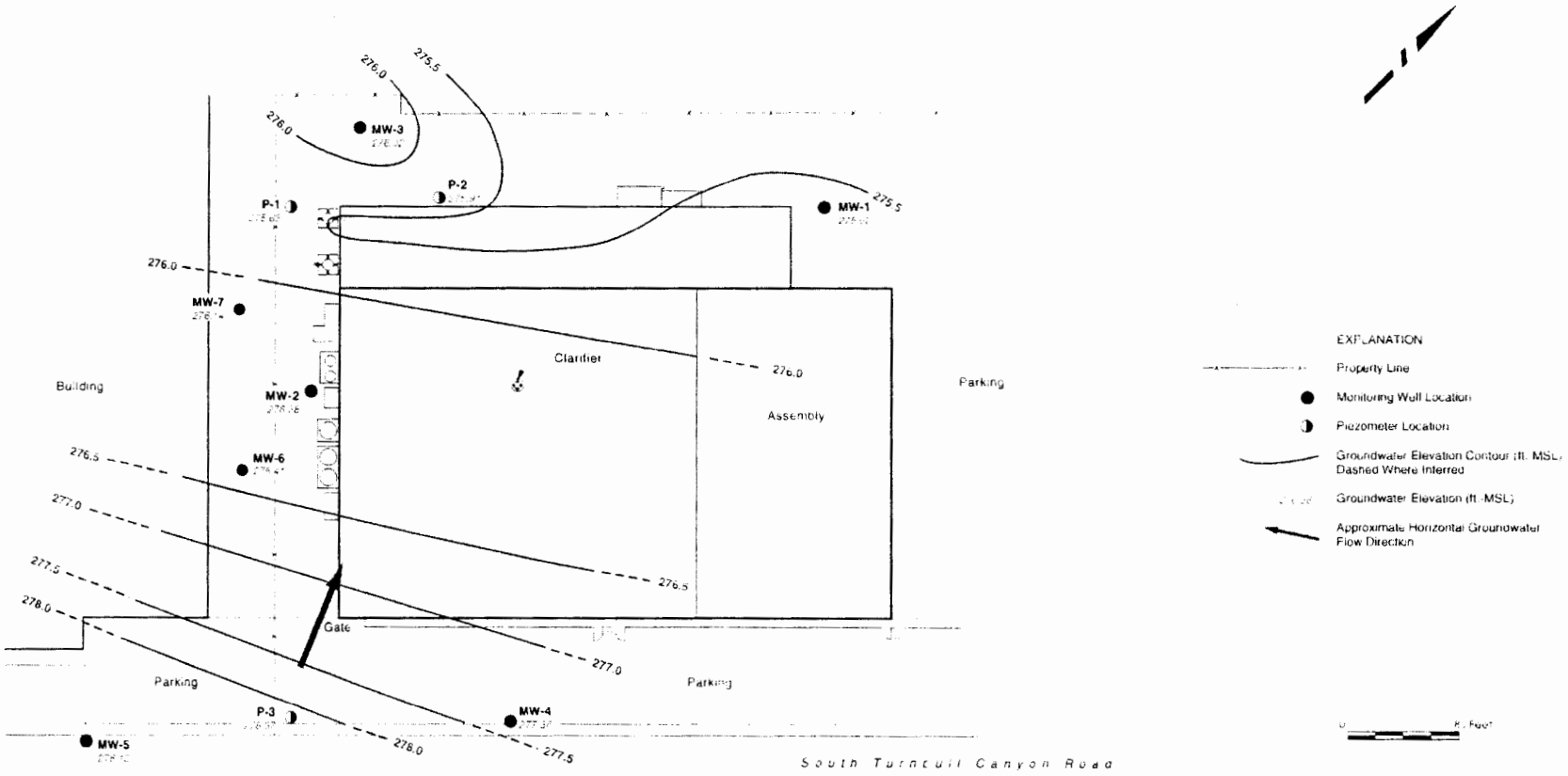
Site Vicinity

Levine•Fricke•Recon

Calmar

Figure 1

Project No. 2455



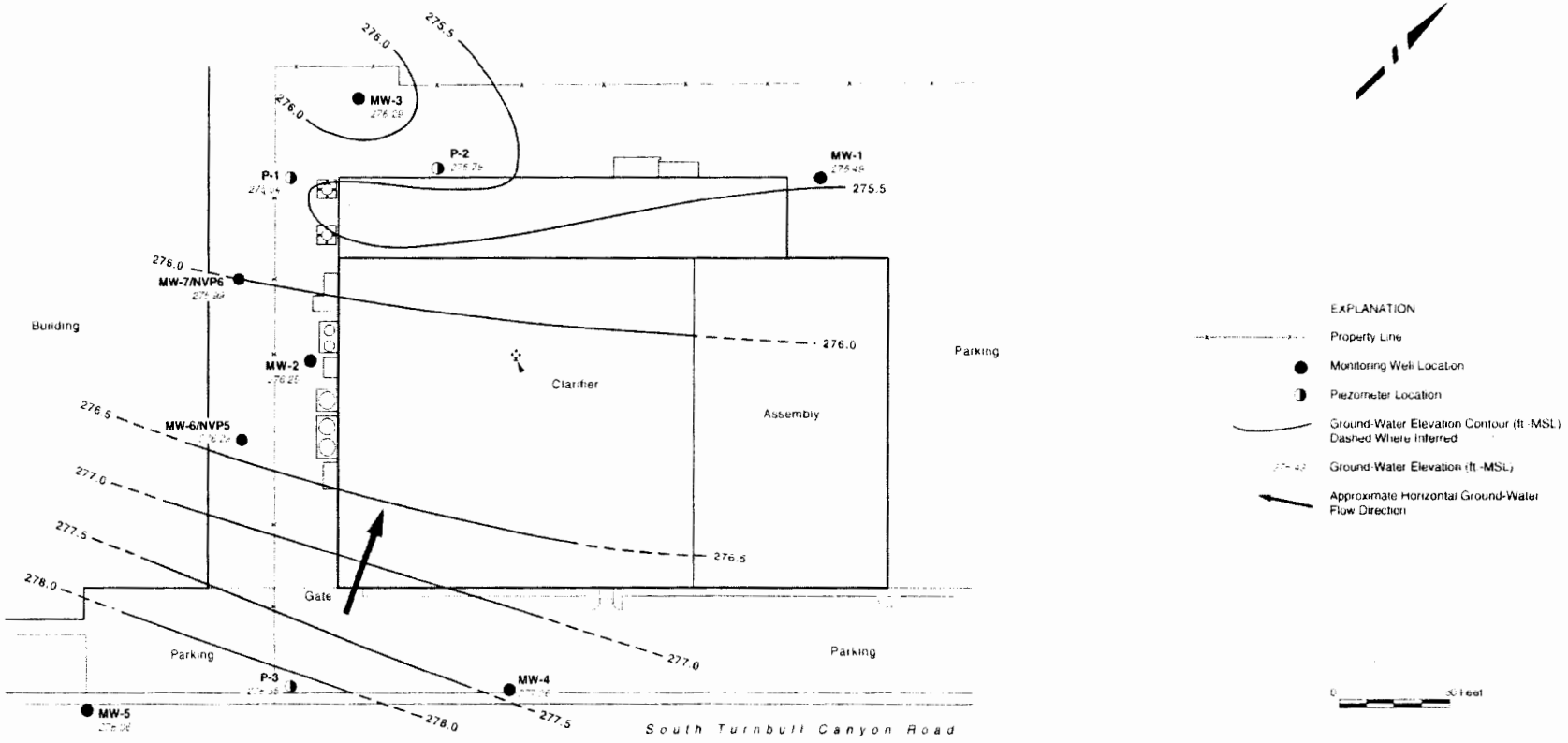
Caimar

Groundwater Elevation Contours
January 25, 1996

Levine-Fricke-Recon

Project No. 2455

Figure 2



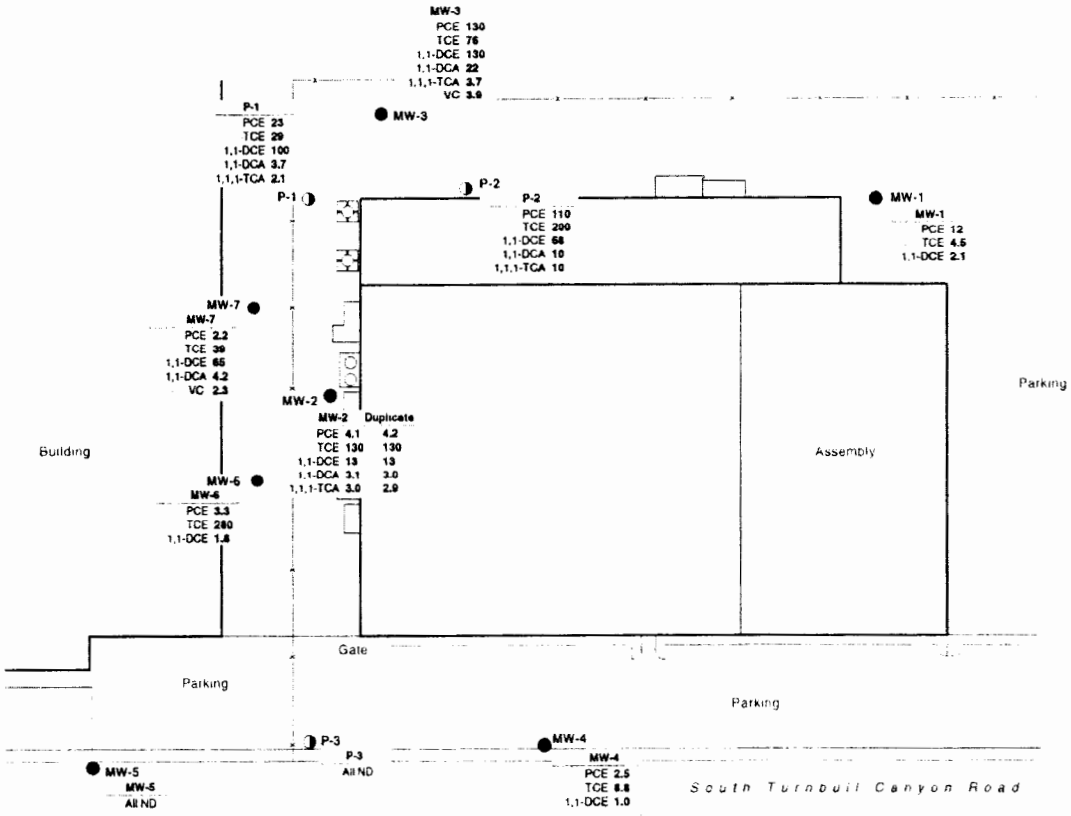
Calmar

Groundwater Elevation Contours
July 23, 1996

Levine-Fricke-Recon

Project No. 2455

Figure 3



EXPLANATION

Property Line

Monitoring Well Location

Piezometer Location

P-1 PCE 23 — Groundwater Analytical Data Showing Halogenated Volatile Organic Compounds (HVOCs) Constituent and Concentration in micrograms per liter (µg/L)

PCE Tetrachloroethene
TCE Trichloroethene
1,1-DCE 1,1-Dichloroethene
1,1-DCA 1,1-Dichloroethane
1,1,1-TCA 1,1,1-Trichloroethane
VC Vinyl Chloride
ND Not Detected Above Laboratory Detection Limit

NOTES: All samples analyzed using EPA Method 8010.

0 — 80 Feet

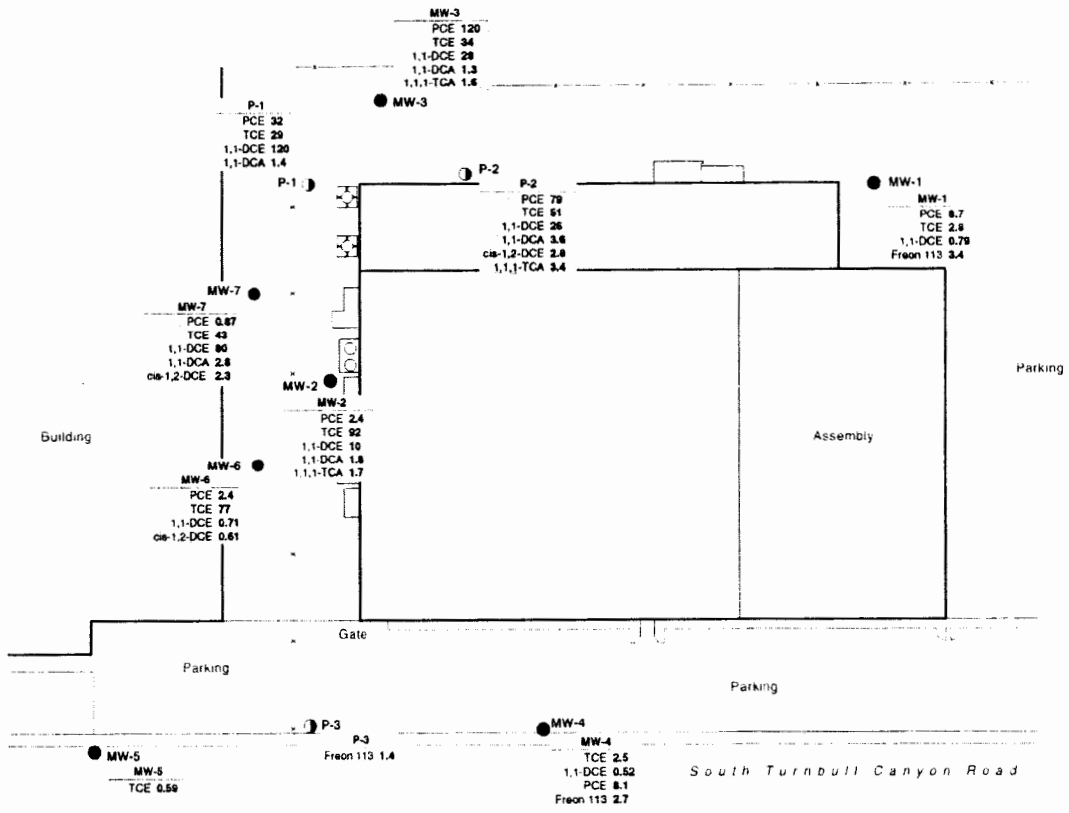
Caimar

Summary of HVOCs and BTEX Detected in Groundwater Samples January, 1996

Levine-Fricke-Recon

Project No. 2455

Figure 4



EXPLANATION

Property Line

Monitoring Well Location

Piezometer Location

P-1 / PCE 32 — Groundwater Analytical Data Showing Volatile Organic Compounds (VOCs) Constituent and Concentration in micrograms per liter (µg/L)

PCE	Tetrachloroethene
TCE	Trichloroethene
1,1-DCE	1,1-Dichloroethene
1,1-DCA	1,1-Dichloroethane
cis-1,2-DCE	cis-1,2-Dichloroethene
1,1,1-TCA	1,1,1-Trichloroethane

NOTES: All samples analyzed using EPA Method 601(8010).

0 60 Feet

Comar

Summary of VOCs Detected in Groundwater Samples July 23 and 24, 1996

Levine-Fricke-Recon

Figure 5

Project No. 2455

APPENDIX A

LEVINE·FRICKE·RECON FIELD PROTOCOLS

GROUNDWATER MONITORING WELL DEVELOPMENT AND SAMPLING

All equipment used to develop or sample the wells was washed in a laboratory-grade detergent and/or steam cleaned prior to use in each monitoring well.

Development of groundwater monitoring wells prior to sampling was conducted to remove sediments from the well boring and enhance communication with the surrounding formation. Development was conducted using one or a combination of the following techniques: overpumping, surging, swabbing, and bailing. The groundwater temperature, specific conductivity, turbidity, and pH were monitored during the development process.

Prior to groundwater sampling, approximately 4 to 10 casing volumes were purged from each well. Purging was conducted using an electric submersible pump. The groundwater temperature, specific conductance, turbidity, and pH were measured throughout the purging process. These groundwater parameters were allowed to reach relative stabilization before groundwater samples were collected for the purpose of collecting a representative groundwater sample.

Purged groundwater was collected in DOT-approved drums for storage on site, or stored in an on-site PolyTank.

Groundwater samples were collected from all wells using a Teflon disposable bailer suspended by a clean (new) length of rope. Groundwater samples were decanted from the bailer into appropriate laboratory-supplied 40-milliliter vials using a bottom decanting petcock device. The containers were sealed, labeled, and placed in a chilled cooler for delivery to the analytical laboratory. Strict chain-of-custody protocol was followed throughout the sample handling process.

MEASUREMENT OF GROUNDWATER ELEVATION

After the groundwater monitoring wells were installed, the top of each well casing was surveyed for vertical and horizontal control by a licensed surveyor. Elevation was surveyed to the nearest 0.01 foot mean sea level. Horizontal control was tied to a United States Geological Survey or Los Angeles County benchmark.

An electronic water-level meter was used to measure the depth to groundwater to the nearest 0.01 foot in each well. Groundwater elevations were calculated and used to construct a groundwater elevation contour map from which the direction of groundwater flow and gradient could be evaluated.

APPENDIX B

LABORATORY CERTIFICATES AND CHAIN-OF-CUSTODY DOCUMENTATION

TMA
Thermo Analytical

1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274

Formerly Terra Tech Labs

LABORATORY REPORT

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L3016
		Client P.N.:	2455
		Lab Cert. #:	1155
Contact:	Dave Field		
Project Name:	Calmar	Date Sampled:	1/25/96-1/26/96
Project Address:	333 Turnbull Canyon City of Industry	Date Received:	1/26/96
		Date Analyzed:	1/30/96-1/31/96
		Physical State:	Liquid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	MS Percent Recovery	MSD Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
1/30/96						
1,1-Dichloroethane (EPA 8010)	M	93	86	73-121	8	0-18
1,1,1-Trichloroethane (EPA 8010)	M	99	95	72-126	4	0-15
cis-1,3-Dichloropropene (EPA 8010)	M	98	95	58-124	3	0-22
Chlorobenzene (EPA 8010)	M	98	97	52-131	1	0-42
1/31/96						
1,1-Dichloroethane (EPA 8010)	M	103	100	73-121	3	0-18
1,1,1-Trichloroethane (EPA 8010)	M	100	99	72-126	1	0-15
cis-1,3-Dichloropropene (EPA 8010)	M	102	99	58-124	3	0-22
Chlorobenzene (EPA 8010)	M	103	98	52-131	5	0-42

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Reviewed

Approved

The samples were received by Thermo Analytical in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Thermo Analytical is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

RECEIVED
FEB 13 1996
LEVINE-FRICKE

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L3016
		Client P.N.:	2455
Project Name:	Calmar	Date Sampled:	1/25/96-1/26/96
Project Address:	333 Turnbull Canyon City of Industry	Date Analyzed:	1/30/96
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	MW4-012596	MW5-012596	P3-012596	MW1-012696	
Parameters	Conc. (µg/l)	Conc. (µg/l)	Conc. (µg/l)	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	ND	ND	ND	1.0
Vinyl chloride	ND	ND	ND	ND	1.0
Trichlorofluoromethane	ND	ND	ND	ND	1.0
Bromomethane	ND	ND	ND	ND	1.0
Chloroethane	ND	ND	ND	ND	1.0
1,1-Dichloroethene	1.0	ND	ND	2.1	1.0
Methylene chloride	ND	ND	ND	ND	5.0
trans-1,2-Dichloroethene	ND	ND	ND	ND	1.0
1,1-Dichloroethane	ND	ND	ND	ND	1.0
cis-1,2-Dichloroethene	ND	ND	ND	ND	1.0
Chloroform	ND	ND	ND	ND	1.0
1,1,1-Trichloroethane	ND	ND	ND	ND	1.0
Carbon tetrachloride	ND	ND	ND	ND	1.0
1,2-Dichloroethane	ND	ND	ND	ND	1.0
Trichloroethene	8.8	ND	ND	4.5	1.0
1,2-Dichloropropane	ND	ND	ND	ND	1.0
Bromodichloromethane	ND	ND	ND	ND	1.0
cis-1,3-Dichloropropene	ND	ND	ND	ND	1.0
trans-1,3-Dichloropropene	ND	ND	ND	ND	1.0
1,1,2-Trichloroethane	ND	ND	ND	ND	1.0
Tetrachloroethene	2.5	ND	ND	12	1.0
Dibromochloromethane	ND	ND	ND	ND	1.0
Chlorobenzene	ND	ND	ND	ND	1.0
Bromoform	ND	ND	ND	ND	1.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	1.0
1,3-Dichlorobenzene	ND	ND	ND	ND	1.0
1,4-Dichlorobenzene	ND	ND	ND	ND	1.0
1,2-Dichlorobenzene	ND	ND	ND	ND	1.0
Surrogate	% Rec.	% Rec.	% Rec.	% Rec.	Acceptable Range
2-Chloropropane	121	118	122	114	65-135
1-Chloro-2-fluorobenzene	114	112	117	108	65-135

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L3016
		Client P.N.:	2455
Project Name:	Calmar	Date Sampled:	1/25/96
Project Address:	333 Turnbull Canyon City of Industry	Date Analyzed:	1/30/96-1/31/96
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	MW6-012596	
Parameters	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	1.0
Vinyl chloride	ND	1.0
Trichlorofluoromethane	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethene	1.8	1.0
Methylene chloride	ND	5.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	280	10
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	3.3	1.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

Surrogate	% Rec.	Acceptable Range
2-Chloropropane	119	65-135
1-Chloro-2-fluorobenzene	114	65-135

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L3016
		Client P.N.:	2455
Project Name:	Calmar	Date Sampled:	1/25/96
Project Address:	333 Turnbull Canyon City of Industry	Date Analyzed:	1/30/96-1/31/96
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	MW7-012596	
Parameters	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	1.0
Vinyl chloride	2.3	1.0
Trichlorofluoromethane	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethene	65	5.0
Methylene chloride	ND	5.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	4.2	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	39	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	2.2	1.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

Surrogate	% Rec.	Acceptable Range
2-Chloropropane	119	65-135
1-Chloro-2-fluorobenzene	116	65-135

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L3016
		Client P.N.:	2455
Project Name:	Calmar	Date Sampled:	1/25/96
Project Address:	333 Turnbull Canyon City of Industry	Date Analyzed:	1/30/96-1/31/96
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	MW2-012596	MW2-012596-0	
Parameters	Conc. (µg/l)	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	ND	1.0
Vinyl chloride	ND	ND	1.0
Trichlorofluoromethane	ND	ND	1.0
Bromomethane	ND	ND	1.0
Chloroethane	ND	ND	1.0
1,1-Dichloroethene	13	13	1.0
Methylene chloride	ND	ND	5.0
trans-1,2-Dichloroethene	ND	ND	1.0
1,1-Dichloroethane	3.1	3.0	1.0
cis-1,2-Dichloroethene	ND	ND	1.0
Chloroform	ND	ND	1.0
1,1,1-Trichloroethane	3.0	2.9	1.0
Carbon tetrachloride	ND	ND	1.0
1,2-Dichloroethane	ND	ND	1.0
Trichloroethene	130	130	5.0
1,2-Dichloropropane	ND	ND	1.0
Bromodichloromethane	ND	ND	1.0
cis-1,3-Dichloropropene	ND	ND	1.0
trans-1,3-Dichloropropene	ND	ND	1.0
1,1,2-Trichloroethane	ND	ND	1.0
Tetrachloroethene	4.1	4.2	1.0
Dibromochloromethane	ND	ND	1.0
Chlorobenzene	ND	ND	1.0
Bromoform	ND	ND	1.0
1,1,2,2-Tetrachloroethane	ND	ND	1.0
1,3-Dichlorobenzene	ND	ND	1.0
1,4-Dichlorobenzene	ND	ND	1.0
1,2-Dichlorobenzene	ND	ND	1.0

Surrogate	% Rec.	% Rec.	Acceptable Range
2-Chloropropane	116	113	65-135
1-Chloro-2-fluorobenzene	109	108	65-135

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L3016
		Client P.N.:	2455
Project Name:	Calmar	Date Sampled:	1/26/96
Project Address:	333 Turnbull Canyon City of Industry	Date Analyzed:	1/30/96-1/31/96
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	P2 012696	
Parameters	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	1.0
Vinyl chloride	ND	1.0
Trichlorofluoromethane	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethene	68	5.0
Methylene chloride	ND	5.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	10	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	10	1.0
Carbon tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	200	5.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	110	5.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

Surrogate	% Rec.	Acceptable Range
2-Chloropropane	115	65-135
1-Chloro-2-fluorobenzene	111	65-135

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L3016
		Client P.N.:	2455
Project Name:	Calmar	Date Sampled:	N/A
Project Address:	333 Turnbull Canyon City of Industry	Date Analyzed:	1/30/96-1/31/96
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	Method Blank 1/30/96	Method Blank 1/31/96	
Parameters	Conc. (µg/l)	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	ND	1.0
Vinyl chloride	ND	ND	1.0
Trichlorofluoromethane	ND	ND	1.0
Bromomethane	ND	ND	1.0
Chloroethane	ND	ND	1.0
1,1-Dichloroethene	ND	ND	1.0
Methylene chloride	ND	ND	5.0
trans-1,2-Dichloroethene	ND	ND	1.0
1,1-Dichloroethane	ND	ND	1.0
cis-1,2-Dichloroethene	ND	ND	1.0
Chloroform	ND	ND	1.0
1,1,1-Trichloroethane	ND	ND	1.0
Carbon tetrachloride	ND	ND	1.0
1,2-Dichloroethane	ND	ND	1.0
Trichloroethene	ND	ND	1.0
1,2-Dichloropropane	ND	ND	1.0
Bromodichloromethane	ND	ND	1.0
cis-1,3-Dichloropropene	ND	ND	1.0
trans-1,3-Dichloropropene	ND	ND	1.0
1,1,2-Trichloroethane	ND	ND	1.0
Tetrachloroethene	ND	ND	1.0
Dibromochloromethane	ND	ND	1.0
Chlorobenzene	ND	ND	1.0
Bromoform	ND	ND	1.0
1,1,2,2-Tetrachloroethane	ND	ND	1.0
1,3-Dichlorobenzene	ND	ND	1.0
1,4-Dichlorobenzene	ND	ND	1.0
1,2-Dichlorobenzene	ND	ND	1.0

Surrogate	% Rec.	% Rec.	Acceptable Range
2-Chloropropane	110	125	65-135
1-Chloro-2-fluorobenzene	103	117	65-135

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

TMA
Thermo Analytical

1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274

Formerly Terra Tech Labs

February 8, 1996

Mr. Dave Field
Levine-Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

RE: Case Narrative for Project Number 2455/L3016

Dear Mr. Field:

Listed below is additional case narrative information necessary due to special circumstances that were encountered during the analysis of the above-referenced project.

The nine (9) liquid samples received January 26, 1996 were analyzed 1/30/96-1/31/96 by Thermo Analytical for Halogenated Volatile Organic Compounds by EPA 8010.

During the EPA 8010 analysis, the 1/30/96 daily calibration had Chloromethane percent difference (% DIFF) greater than the 15% limit. However, Chloromethane was not detected in any of the samples and was within the corresponding 35% limit. The rest of the compounds were within the acceptable limit. The 1/31/96 daily calibration is applicable only for the compounds requiring dilutions. These compounds were all within the acceptable limit.

If you should have any questions or need further information, please do not hesitate to contact me at 714.757.7022.

Sincerely,

Don Burley

Don Burley
Program Manager

Enclosure

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM

Laboratory Name: Thermo Analytical
Address: 1920 E. Deere Avenue, Santa Ana, CA 92705

Telephone: (714) 757-7022

Laboratory Certification (ELAP) Number: 1155 Expiration Date: 3/31/96

Program Manager's Name (Print): Don Burley

Program Manager's Signature: Don Burley

Client: Levine-Fricke
Project Number: 2455/L3016

Analytical Method: (Circle One)	EPA 502.1	EPA 503.1	EPA 502.2	EPA 524.1
				EPA 524.2
	EPA 601	EPA 602		EPA 624
				EPA 8240
	EPA 8010	EPA 8020	EPA 8021	EPA 8260
Other				
Date Sampled:	1/25/96-1/26/96			
Date Received:	1/26/96			
Date Reported:	2/7/96			
Sample Matrix:	Liquid			
Extraction Method:	5030A			
Extraction Material:	-			

Chain of Custody Received: **Yes** No

Sample Condition: Intact, received chilled.

- - Sample Headspace Description (%): Zero Headspace
- - Sample Container Material: 40-ml VOA vial

Comments:

ANALYTICAL TEST RESULT (a)

Reporting Unit (Circle One): µg/kg | ug/l

		DATE ANALYZED:	1/30/96	1/30/96	1/30/96
		DATE EXTRACTED:	-	-	-
		DILUTION FACTOR:	1.0	1.0	1.0
		LAB SAMPLE I.D.:	L3016-1	L3016-2	L3016-3
		CLIENT SAMPLE I.D.:	MW4-012596	MW5-012596	MW6-012596
COMPOUND (b)	MDL	MB			
Bromobenzene	-	NA	NA	NA	NA
Bromodichloromethane	0.28	ND	ND	ND	ND
Bromoform	0.25	ND	ND	ND	ND
Bromomethane	0.18	ND	ND	ND	ND
Carbon tetrachloride	0.28	ND	ND	ND	ND
Chloroethane	0.19	ND	ND	ND	ND
Chloroform	0.17	ND	ND	ND	0.18
1-Chlorohexane	-	NA	NA	NA	NA
Chloromethane	0.30	ND	ND	ND	ND
Dibromochloromethane	0.22	ND	ND	ND	ND
Dibromomethane	-	NA	NA	NA	NA
Dichlorodifluoromethane	-	NA	NA	NA	NA
1,1-Dichloroethane (1,1-DCA)	0.19	ND	ND	ND	0.22
1,2-Dichloroethane (1,2-DCA)	0.19	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.15	ND	1.0	ND	1.8
trans-1,2-Dichloroethylene	0.17	ND	ND	ND	0.24
Dichloromethane (MeCl2)	0.29	ND	ND	ND	ND
1,2-Dichloropropane	0.24	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.38	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.34	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	-	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.41	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.29	ND	2.5	0.38	3.3
1,1,1-Trichloroethane (1,1,1-TCA)	0.22	ND	0.57	ND	0.26
1,1,2-Trichloroethane (1,1,2-TCA)	0.27	ND	ND	ND	ND
Trichloroethylene (TCE)	0.19	ND	8.8	0.23	280*
1,2,3-Trichloropropane	-	NA	NA	NA	NA
Trichlorofluoromethane	0.19	ND	ND	ND	ND
Vinyl chloride	0.19	ND	ND	ND	0.25
Benzene	-	NA	NA	NA	NA
Chlorobenzene	-	NA	NA	NA	NA
1,2-Dichlorobenzene	-	NA	NA	NA	NA
1,3-Dichlorobenzene	-	NA	NA	NA	NA
1,4-Dichlorobenzene	-	NA	NA	NA	NA
Ethyl benzene	-	NA	NA	NA	NA
Toluene	-	NA	NA	NA	NA

MDL = Method Detection Limit
ND = Not Detected (Below MDL)
*Dilution factor = 10; analyzed 1/31/96
a = Report Any Value >/= MDL
b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

MB = Method Blank
NA = Not Analyzed

ANALYTICAL TEST RESULT (cont'd)

			LAB SAMPLE I.D.:	L3016-1	L3016-2	L3016-3
			CLIENT SAMPLE I.D.:	MW4-012596	MW5-012596	MW6-012596
COMPOUND (b)		MDL	MB			
m,p-Xylenes		-	NA	NA	NA	NA
o-Xylene		-	NA	NA	NA	NA
Acetone		-	NA	NA	NA	NA
Acrolein		-	NA	NA	NA	NA
Acrylonitrile		-	NA	NA	NA	NA
Bromochloromethane		-	NA	NA	NA	NA
n-Butylbenzene		-	NA	NA	NA	NA
sec-Butylbenzene		-	NA	NA	NA	NA
tert-Butylbenzene		-	NA	NA	NA	NA
2-Chloroethylvinyl ether		-	NA	NA	NA	NA
2-Chlorotoluene		-	NA	NA	NA	NA
4-Chlorotoluene		-	NA	NA	NA	NA
Dichlorodifluoromethane		-	NA	NA	NA	NA
cis-1,2-Dichloroethylene		-	NA	NA	NA	NA
1,3-Dichloropropane		-	NA	NA	NA	NA
2,2-Dichloropropane		-	NA	NA	NA	NA
1,1-Dichloropropylene		-	NA	NA	NA	NA
Ethylene dibromide (EDB)		-	NA	NA	NA	NA
Hexachlorobutadiene		-	NA	NA	NA	NA
Isopropylbenzene		-	NA	NA	NA	NA
p-Isopropyltoluene		-	NA	NA	NA	NA
Methyl Ethyl Ketone		-	NA	NA	NA	NA
Methyl Isobutyl Ketone		-	NA	NA	NA	NA
Naphthalene		-	NA	NA	NA	NA
n-Propylbenzene		-	NA	NA	NA	NA
Styrene		-	NA	NA	NA	NA
1,2,3-Trichlorobenzene		-	NA	NA	NA	NA
1,2,4-Trichlorobenzene		-	NA	NA	NA	NA
1,2,4-Trimethylbenzene		-	NA	NA	NA	NA
1,3,5-Trimethylbenzene		-	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane		-	NA	NA	NA	NA
Surrogate	Spk Conc	ACP%	MB % RC	%RC	%RC	%RC
2-Chloropropane	20.0	65-135	110	121	118	119
1-Chloro-2-fluorobenzene	20.0	65-135	103	114	112	114

MDL = Method Detection Limit
ND = Not Detected (Below MDL)
SPK CONC = Spiking concentration (</=5 x PQL)
ACP % = Acceptable Range of Percent

MB = Method Blank
NA = Not Analyzed
PQL = Practical quantitation limit
%RC = % Recovery

a = Report Any Value >/= MDL
b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

ANALYTICAL TEST RESULT (a)

Reporting Unit (Circle One): µg/kg | ug/l

		DATE ANALYZED:	1/30/96	1/30/96	1/30/96
		DATE EXTRACTED:	-	-	-
		DILUTION FACTOR:	1.0	1.0	1.0
		LAB SAMPLE I.D.:	L3016-4	L3016-5	L3016-6
		CLIENT SAMPLE I.D.:	P3-012596	MW7-012596	MW2-012596
COMPOUND (b)	MDL	MB			
Bromobenzene	-	NA	NA	NA	NA
Bromodichloromethane	0.28	ND	ND	ND	ND
Bromoform	0.25	ND	ND	ND	ND
Bromomethane	0.18	ND	ND	ND	ND
Carbon tetrachloride	0.28	ND	ND	ND	ND
Chloroethane	0.19	ND	ND	ND	ND
Chloroform	0.17	ND	ND	ND	0.19
1-Chlorohexane	-	NA	NA	NA	NA
Chloromethane	0.30	ND	ND	ND	ND
Dibromochloromethane	0.22	ND	ND	ND	ND
Dibromomethane	-	NA	NA	NA	NA
Dichlorodifluoromethane	-	NA	NA	NA	NA
1,1-Dichloroethane (1,1-DCA)	0.19	ND	ND	4.2	3.1
1,2-Dichloroethane (1,2-DCA)	0.19	ND	ND	0.20	ND
1,1-Dichloroethylene (1,1-DCE)	0.15	ND	ND	65*	13
trans-1,2-Dichloroethylene	0.17	ND	ND	0.23	0.18
Dichloromethane (MeCl2)	0.29	ND	ND	ND	ND
1,2-Dichloropropane	0.24	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.38	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.34	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	-	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.41	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.29	ND	0.54	2.2	4.1
1,1,1-Trichloroethane (1,1,1-TCA)	0.22	ND	0.34	0.32	3.0
1,1,2-Trichloroethane (1,1,2-TCA)	0.27	ND	ND	ND	ND
Trichloroethylene (TCE)	0.19	ND	ND	39	130*
1,2,3-Trichloropropane	-	NA	NA	NA	NA
Trichlorofluoromethane	0.19	ND	ND	ND	ND
Vinyl chloride	0.19	ND	ND	2.3	ND
Benzene	-	NA	NA	NA	NA
Chlorobenzene	-	NA	NA	NA	NA
1,2-Dichlorobenzene	-	NA	NA	NA	NA
1,3-Dichlorobenzene	-	NA	NA	NA	NA
1,4-Dichlorobenzene	-	NA	NA	NA	NA
Ethyl benzene	-	NA	NA	NA	NA
Toluene	-	NA	NA	NA	NA

MDL = Method Detection Limit
ND = Not Detected (Below MDL)
*Dilution factor = 5; analyzed 1/31/96
a = Report Any Value >/= MDL
b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

MB = Method Blank
NA = Not Analyzed

ANALYTICAL TEST RESULT (cont'd)

			LAB SAMPLE I.D.:	L3016-4	L3016-5	L3016-6
			CLIENT SAMPLE I.D.:	P3-012596	MW7-012596	MW2-012596
COMPOUND (b)		MDL	MB			
m,p-Xylenes		-	NA	NA	NA	NA
o-Xylene		-	NA	NA	NA	NA
Acetone		-	NA	NA	NA	NA
Acrolein		-	NA	NA	NA	NA
Acrylonitrile		-	NA	NA	NA	NA
Bromochloromethane		-	NA	NA	NA	NA
n-Butylbenzene		-	NA	NA	NA	NA
sec-Butylbenzene		-	NA	NA	NA	NA
tert-Butylbenzene		-	NA	NA	NA	NA
2-Chloroethylvinyl ether		-	NA	NA	NA	NA
2-Chlorotoluene		-	NA	NA	NA	NA
4-Chlorotoluene		-	NA	NA	NA	NA
Dichlorodifluoromethane		-	NA	NA	NA	NA
cis-1,2-Dichloroethylene		-	NA	NA	NA	NA
1,3-Dichloropropane		-	NA	NA	NA	NA
2,2-Dichloropropane		-	NA	NA	NA	NA
1,1-Dichloropropylene		-	NA	NA	NA	NA
Ethylene dibromide (EDB)		-	NA	NA	NA	NA
Hexachlorobutadiene		-	NA	NA	NA	NA
Isopropylbenzene		-	NA	NA	NA	NA
p-Isopropyltoluene		-	NA	NA	NA	NA
Methyl Ethyl Ketone		-	NA	NA	NA	NA
Methyl Isobutyl Ketone		-	NA	NA	NA	NA
Naphthalene		-	NA	NA	NA	NA
n-Propylbenzene		-	NA	NA	NA	NA
Styrene		-	NA	NA	NA	NA
1,2,3-Trichlorobenzene		-	NA	NA	NA	NA
1,2,4-Trichlorobenzene		-	NA	NA	NA	NA
1,2,4-Trimethylbenzene		-	NA	NA	NA	NA
1,3,5-Trimethylbenzene		-	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane		-	NA	NA	NA	NA
Surrogate	Spk Conc	ACP%	MB % RC	%RC	%RC	%RC
2-Chloropropane	20.0	65-135	110	122	119	116
1-Chloro-2-fluorobenzene	20.0	65-135	103	117	116	109

MDL = Method Detection Limit
ND = Not Detected (Below MDL)
SPK CONC = Spiking concentration (</=5 x PQL)
ACP % = Acceptable Range of Percent

MB = Method Blank
NA = Not Analyzed
PQL = Practical quantitation limit
%RC = % Recovery

a = Report Any Value >/= MDL
b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

ANALYTICAL TEST RESULT (a)

Reporting Unit (Circle One): µg/kg | µg/l

		DATE ANALYZED:	1/30/96	1/30/96	1/30/96
		DATE EXTRACTED:	-	-	-
		DILUTION FACTOR:	1.0	1.0	1.0
		LAB SAMPLE I.D.:	L3016-7	L3016-8	L3016-9
		CLIENT SAMPLE I.D.:	MW2-012596-0	P2-012696	MW1-012696
COMPOUND (b)	MDL	MB			
Bromobenzene	-	NA	NA	NA	NA
Bromodichloromethane	0.28	ND	ND	ND	ND
Bromoform	0.25	ND	ND	ND	ND
Bromomethane	0.18	ND	ND	ND	ND
Carbon tetrachloride	0.28	ND	ND	ND	ND
Chloroethane	0.19	ND	ND	ND	ND
Chloroform	0.17	ND	0.20	0.24	0.22
1-Chlorohexane	-	NA	NA	NA	NA
Chloromethane	0.30	ND	ND	ND	ND
Dibromochloromethane	0.22	ND	ND	ND	ND
Dibromomethane	-	NA	NA	NA	NA
Dichlorodifluoromethane	-	NA	NA	NA	NA
1,1-Dichloroethane (1,1-DCA)	0.19	ND	3.0	10	ND
1,2-Dichloroethane (1,2-DCA)	0.19	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.15	ND	13	68*	2.1
trans-1,2-Dichloroethylene	0.17	ND	0.19	0.35	ND
Dichloromethane (MeCl2)	0.29	ND	ND	ND	ND
1,2-Dichloropropane	0.24	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.38	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.34	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	-	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.41	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.29	ND	4.2	110*	12
1,1,1-Trichloroethane (1,1,1-TCA)	0.22	ND	2.9	10	0.73
1,1,2-Trichloroethane (1,1,2-TCA)	0.27	ND	ND	ND	ND
Trichloroethylene (TCE)	0.19	ND	130*	200*	4.5
1,2,3-Trichloropropane	-	NA	NA	NA	NA
Trichlorofluoromethane	0.19	ND	ND	ND	ND
Vinyl chloride	0.19	ND	ND	0.58	ND
Benzene	-	NA	NA	NA	NA
Chlorobenzene	-	NA	NA	NA	NA
1,2-Dichlorobenzene	-	NA	NA	NA	NA
1,3-Dichlorobenzene	-	NA	NA	NA	NA
1,4-Dichlorobenzene	-	NA	NA	NA	NA
Ethyl benzene	-	NA	NA	NA	NA
Toluene	-	NA	NA	NA	NA

MDL = Method Detection Limit
ND = Not Detected (Below MDL)
*Dilution factor = 5; analyzed 1/31/96
a = Report Any Value >/= MDL
b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

MB = Method Blank
NA = Not Analyzed

ANALYTICAL TEST RESULT (cont'd)

			LAB SAMPLE I.D.:	L3016-7	L3016-8	L3016-9
			CLIENT SAMPLE I.D.:	MW2-012596-0	P2-012696	MW1-012696
COMPOUND (b)		MDL	MB			
m,p-Xylenes		-	NA	NA	NA	NA
o-Xylene		-	NA	NA	NA	NA
Acetone		-	NA	NA	NA	NA
Acrolein		-	NA	NA	NA	NA
Acrylonitrile		-	NA	NA	NA	NA
Bromochloromethane		-	NA	NA	NA	NA
n-Butylbenzene		-	NA	NA	NA	NA
sec-Butylbenzene		-	NA	NA	NA	NA
tert-Butylbenzene		-	NA	NA	NA	NA
2-Chloroethylvinyl ether		-	NA	NA	NA	NA
2-Chlorotoluene		-	NA	NA	NA	NA
4-Chlorotoluene		-	NA	NA	NA	NA
Dichlorodifluoromethane		-	NA	NA	NA	NA
cis-1,2-Dichloroethylene		-	NA	NA	NA	NA
1,3-Dichloropropane		-	NA	NA	NA	NA
2,2-Dichloropropane		-	NA	NA	NA	NA
1,1-Dichloropropylene		-	NA	NA	NA	NA
Ethylene dibromide (EDB)		-	NA	NA	NA	NA
Hexachlorobutadiene		-	NA	NA	NA	NA
Isopropylbenzene		-	NA	NA	NA	NA
p-Isopropyltoluene		-	NA	NA	NA	NA
Methyl Ethyl Ketone		-	NA	NA	NA	NA
Methyl Isobutyl Ketone		-	NA	NA	NA	NA
Naphthalene		-	NA	NA	NA	NA
n-Propylbenzene		-	NA	NA	NA	NA
Styrene		-	NA	NA	NA	NA
1,2,3-Trichlorobenzene		-	NA	NA	NA	NA
1,2,4-Trichlorobenzene		-	NA	NA	NA	NA
1,2,4-Trimethylbenzene		-	NA	NA	NA	NA
1,3,5-Trimethylbenzene		-	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane		-	NA	NA	NA	NA
Surrogate	Spk Conc	ACP%	MB % RC	%RC	%RC	%RC
2-Chloropropane	20.0	65-135	110	113	115	114
1-Chloro-2-fluorobenzene	20.0	65-135	103	108	111	108

MDL = Method Detection Limit
ND = Not Detected (Below MDL)
SPK CONC = Spiking concentration (</=5 x PQL)
ACP % = Acceptable Range of Percent

MB = Method Blank
NA = Not Analyzed
PQL = Practical quantitation limit
%RC = % Recovery

a = Report Any Value >/= MDL
b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

QA/QC REPORT

Reporting Unit (Circle One): µg/kg [µg/l]

I. Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

Date Performed: 1/30/96
Batch #: 013096L
Lab Sample ID: L3017-2

ANALYTE	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP %MS	ACP RPD
1,1-Dichloroethane	20.0	18.6	93	17.2	86	8	73-121	0-18
1,1,1-Trichloroethane	20.0	19.8	99	19.1	95	4	72-126	0-15
cis-1,3-Dichloropropene	20.0	19.6	98	19.0	95	3	58-124	0-22
Chlorobenzene	40.0	39.0	98	38.8	97	1	52-131	0-42

II. Laboratory Quality Control Check Sample

Date Performed: 1/30/96
Batch #: 013096LCS
Lab Sample ID: LCS

ANALYTE	SPK CONC	RESULT	% RECOVERY	ACP %
1,1-Dichloroethane	20.0	19.0	95	80-120
1,1,1-Trichloroethane	20.0	19.1	95	80-120
cis-1,3-Dichloropropene	20.0	18.1	91	80-120
Chlorobenzene	40.0	36.9	92	80-120

ANALYST

2/9/96
DATE

SPK CONC = Spiking concentration (</=5 x PQL)
%MS = Percent recovery of MS; %MSD = Percent recovery of MSD;
RPD = Relative percent difference

PQL = Practical quantitation limit
%MSD = Percent recovery of MSD;
ACP = Acceptable range of percent

QA/QC REPORT

Reporting Unit (Circle One): µg/kg µg/l

I. Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

Date Performed: 1/31/96
Batch #: 013196L
Lab Sample ID: L3016-9

ANALYTE	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP %MS	ACP RPD
1,1-Dichloroethane	20.0	20.6	103	20.0	100	3	73-121	0-18
1,1,1-Trichloroethane	20.0	20.0	100	19.8	99	1	72-126	0-15
cis-1,3-Dichloropropene	20.0	20.4	102	19.9	99	3	58-124	0-22
Chlorobenzene	40.0	41.2	103	39.2	98	5	52-131	0-42

II. Laboratory Quality Control Check Sample

Date Performed: 1/31/96
Batch #: 013196LCS
Lab Sample ID: LCS

ANALYTE	SPK CONC	RESULT	% RECOVERY	ACP %
1,1-Dichloroethane	20.0	21.2	106	80-120
1,1,1-Trichloroethane	20.0	20.6	103	80-120
cis-1,3-Dichloropropene	20.0	20.3	102	80-120
Chlorobenzene	40.0	40.4	101	80-120

ANALYST

2/9/96
DATE

SPK CONC = Spiking concentration (</=5 x PQL)
%MS = Percent recovery of MS; %MSD = Percent recovery of MSD;
RPD = Relative percent difference

PQL = Practical quantitation limit
%MSD = Percent recovery of MSD;
ACP = Acceptable range of percent;

QA/QC INSTRUMENT CALIBRATIONS

III. Calibration Standard

	MOST RECENT INITIAL CALIBRATION		DAILY CALIBRATION
Date:	1/4/96	Date:	1/30/96
Supply Source:	Ultra Scientific	Supply Source:	Ultra Scientific

COMPOUND (c)	INITIAL RF (ave)	%RSD (d)	DAILY RF	% DIFF (e) w/RF ave
Bromobenzene	NA	NA	NA	NA
Bromochloromethane	9180	7	9584	4
Bromodichloromethane	11510	8	11771	2
Bromoform	5023	12	5712	14
Bromomethane	4117	3	4009	3
Carbon tetrachloride	17084	9	17364	2
Chloroethane	8384	5	8222	2
Chloroform	16498	9	16768	2
1-Chlorohexane	NA	NA	NA	NA
Chloromethane	9473	9	7040	26*
Dibromochloromethane	7344	11	7807	6
Dibromomethane	NA	NA	NA	NA
Dichloromethane (Methylene chloride)	16125	15	15783	2
1,1-Dichloroethane (1,1-DCA)	12628	7	13071	4
1,2-Dichloroethane (1,2-DCA)	12149	8	12290	1
1,1-Dichloroethylene (1,1-DCE)	11918	7	12262	3
trans-1,2-Dichloroethylene	12571	7	13069	4
1,2-Dichloropropane	11658	11	11301	3
cis-1,3-Dichloropropylene	10258	9	10491	2
trans-1,3-Dichloropropylene	9550	9	9771	2
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	9102	16	9157	1
Tetrachloroethylene (PCE)	14516	11	14433	1
1,1,1-Trichloroethane (1,1,1-TCA)	14631	9	14720	1
1,1,2-Trichloroethane (1,1,2-TCA)	12540	11	12240	2
Trichloroethylene (TCE)	15172	11	14758	3
1,2,3-Trichloropropane	NA	NA	NA	NA
Trichlorofluoromethane	12648	8	12851	2
Vinyl chloride (VC)	7526	7	7669	2

*Value outside acceptable limits.

NA = Not Analyzed

INITIAL RF ave = Average response factor from initial calibration

DAILY RF = Response factor from daily calibration

%RSD = Percent relative standard deviation

%DIFF = Percent difference

< = System Performance (SPCC) for GC/MS Methods.

c = Listed compounds are ordered by laborabory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS.
d = Value </= 10% for GC EPA Methods 500 & 600 Series, </= 20% for GC EPA Methods 8000 Series, </= 30% for GC/MS Methods.
e = Value </= 20% for GC EPA Methods 500 & 600 Series, </= 15% for GC EPA Methods 8000 Series, </= 25% for GC/MS Methods.

III. Calibration Standard (cont'd)

COMPOUND (c)	INITIAL RF ave	%RSD (d)	DAILY RF	% DIFF (e) w/RF ave
Benzene	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA
Ethyl benzene	NA	NA	NA	NA
Toluene	NA	NA	NA	NA
m,p-Xylenes	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA
Acetone	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA
sec-Butylbenzene	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA
2-Chloroethylvinyl ether	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA
Dichloro-difluoromethane	NA	NA	NA	NA
cis-1,2-Dichloroethylene	NA	NA	NA	NA
trans-1,2-Dichloroethylene	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA
1,1-Dichloropropylene	NA	NA	NA	NA
Ethylene dibromide (EDB)	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA	NA
Methyl Ethyl Ketone	NA	NA	NA	NA
Methyl Isobutyl Ketone	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA
Styrene	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane	NA	NA	NA	NA

*Value outside acceptable limits.

NA = Not Analyzed

INITIAL RF ave = Average response factor from initial calibration

DAILY RF = Response factor from daily calibration

%RSD = Percent relative standard deviation

%DIFF = Percent difference

< = System Performance (SPCC) for GC/MS Methods.

c = Listed compounds are ordered by laborabory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS.
d = Value </= 10% for GC EPA Methods 500 & 600 Series, </= 20% for GC EPA Methods 8000 Series, </= 30% for GC/MS Methods.
e = Value </= 20% for GC EPA Methods 500 & 600 Series, </= 15% for GC EPA Methods 8000 Series, </= 25% for GC/MS Methods.

QA/QC INSTRUMENT CALIBRATIONS

III. Calibration Standard

	MOST RECENT INITIAL CALIBRATION		DAILY CALIBRATION
Date:	1/4/96	Date:	1/31/96
Supply Source:	Ultra Scientific	Supply Source:	Ultra Scientific

COMPOUND (c)	INITIAL RF (ave)	%RSD (d)	DAILY RF	% DIFF (e) w/RF ave
Bromobenzene	NA	NA	NA	NA
Bromochloromethane	9180	7	9585	4
Bromodichloromethane	11510	8	12222	6
Bromoform	5023	12	5733	14
Bromomethane	4117	3	4699	14
Carbon tetrachloride	17084	9	17652	3
Chloroethane	8384	5	8134	3
Chloroform	16498	9	16673	1
1-Chlorohexane	NA	NA	NA	NA
Chloromethane	9473	9	6078	36*
Dibromochloromethane	7344	11	8414	15
Dibromomethane	NA	NA	NA	NA
Dichloromethane (Methylene chloride)	16125	15	15701	3
1,1-Dichloroethane (1,1-DCA)	12628	7	13177	4
1,2-Dichloroethane (1,2-DCA)	12149	8	12426	2
1,1-Dichloroethylene (1,1-DCE)	11918	7	12598	6
trans-1,2-Dichloroethylene	12571	7	13187	5
1,2-Dichloropropane	11658	11	11567	1
cis-1,3-Dichloropropylene	10258	9	10496	2
trans-1,3-Dichloropropylene	9550	9	9697	2
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	9102	16	9321	2
Tetrachloroethylene (PCE)	14516	11	14560	0
1,1,1-Trichloroethane (1,1,1-TCA)	14631	9	14977	2
1,1,2-Trichloroethane (1,1,2-TCA)	12540	11	12617	1
Trichloroethylene (TCE)	15172	11	15280	1
1,2,3-Trichloropropane	NA	NA	NA	NA
Trichlorofluoromethane	12648	8	13141	4
Vinyl chloride (VC)	7526	7	8683	15

*Value outside acceptable limits.

NA = Not Analyzed

INITIAL RF ave = Average response factor from initial calibration

DAILY RF = Response factor from daily calibration

%RSD = Percent relative standard deviation

%DIFF = Percent difference

< = System Performance (SPCC) for GC/MS Methods.

c = Listed compounds are ordered by laborabory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS.
d = Value </= 10% for GC EPA Methods 500 & 600 Series, </= 20% for GC EPA Methods 8000 Series, </= 30% for GC/MS Methods.
e = Value </= 20% for GC EPA Methods 500 & 600 Series, </= 15% for GC EPA Methods 8000 Series, </= 25% for GC/MS Methods.

III. Calibration Standard (cont'd)

COMPOUND (c)	INITIAL RF ave	%RSD (d)	DAILY RF	% DIFF (e) w/RF ave
Benzene	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA
Ethyl benzene	NA	NA	NA	NA
Toluene	NA	NA	NA	NA
m,p-Xylenes	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA
Acetone	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA
sec-Butylbenzene	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA
2-Chloroethylvinyl ether	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA
Dichloro-difluoromethane	NA	NA	NA	NA
cis-1,2-Dichloroethylene	NA	NA	NA	NA
trans-1,2-Dichloroethylene	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA
1,1-Dichloropropylene	NA	NA	NA	NA
Ethylene dibromide (EDB)	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA	NA
Methyl Ethyl Ketone	NA	NA	NA	NA
Methyl Isobutyl Ketone	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA
Styrene	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane	NA	NA	NA	NA

*Value outside acceptable limits.

NA = Not Analyzed

INITIAL RF ave = Average response factor from initial calibration

DAILY RF = Response factor from daily calibration

%RSD = Percent relative standard deviation

%DIFF = Percent difference

< = System Performance (SPCC) for GC/MS Methods.

c = Listed compounds are ordered by laboratory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS.
d = Value <= 10% for GC EPA Methods 500 & 600 Series, <= 20% for GC EPA Methods 8000 Series, <= 30% for GC/MS Methods.
e = Value <= 20% for GC EPA Methods 500 & 600 Series, <= 15% for GC EPA Methods 8000 Series, <= 25% for GC/MS Methods.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2455 ~~#3~~ DK 1/26

Field Logbook No.:

Date: 1/26/96

Serial No.: № N- 0[illegible]

Project Name: CalMar

Project Location: 333 Turnbull Canyon, City of Industry

Sampler (Signature): [signature]

Samplers: DAF, CJM

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	8010		lab ID	HOLD	RUSH	REMARKS
~~MW4-10~~ DK	1/26			DK									Results to Dave Fickl
MW4-012626	1/25	9:50		2	H_2O			X		L3016-1			Normal Turnaround
MW5		12:30						X		-2			
MW6		1:30						X		-3			
P3		2:17						X		-4			
MW7		2:55						X		-5			
MW2		4:05						X		-6			
MW2-012626D	1/25	4:05						X		-7			
DK 1/24 ~~MW~~ P2-012626	1/26 DK	~~9:00~~ 9:50						X		-8			
MW1-012626		DK ~~9:50~~ 9:00						X		-9			

RELINQUISHED BY: (Signature) [signature]	DATE 1/26/96	TIME 10:06	RECEIVED BY: (Signature) [signature]	DATE 1/26/96	TIME 10:52
RELINQUISHED BY: (Signature) [signature]	DATE 1/26/96	TIME 10:52	RECEIVED BY: (Signature) Sean Dino TMA SA	DATE 1/26/96	TIME 10:53
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
1920 Main Street, Suite 750
Irvine, California 92714

Analytical Laboratory: THERMO

TMA
Thermo Analytical

1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274

Formerly Terra Tech Labs

FEB 1996
LEVINE-FRICKE

LABORATORY REPORT

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L3017
		Client P.N.:	2455
		Lab Cert. #:	1155
Contact:	Dave Field		
Project Name:	Calmar	Date Sampled:	1/26/96
Project Address:	333 Turnbull Canyon City of Industry	Date Received:	1/26/96
		Date Analyzed:	1/30/96-1/31/96
		Physical State:	Liquid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	MS Percent Recovery	MSD Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
1/30/96						
1,1-Dichloroethane (EPA 8010)	M	93	86	73-121	8	0-18
1,1,1-Trichloroethane (EPA 8010)	M	99	95	72-126	4	0-15
cis-1,3-Dichloropropene (EPA 8010)	M	98	95	58-124	3	0-22
Chlorobenzene (EPA 8010)	M	98	97	52-131	1	0-42
1/31/96						
1,1-Dichloroethane (EPA 8010)	M	103	100	73-121	3	0-18
1,1,1-Trichloroethane (EPA 8010)	M	100	99	72-126	1	0-15
cis-1,3-Dichloropropene (EPA 8010)	M	102	99	58-124	3	0-22
Chlorobenzene (EPA 8010)	M	103	98	52-131	5	0-42

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Reviewed

Approved

The samples were received by Thermo Analytical in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Thermo Analytical is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

RECEIVED
FEB 13 1996
LEVINE-FRICKE

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street. Suite 750 Irvine, CA 92714	Lab P.N.:	L3017
		Client P.N.:	2455
Project Name:	Calmar	Date Sampled:	1/26/96
Project Address:	333 Turnbull Canyon City of Industry	Date Analyzed:	1/30/96-1/31/96
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	MW3-012696	
Parameters	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	1.0
Vinyl chloride	3.9	1.0
Trichlorofluoromethane	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethene	130	5.0
Methylene chloride	ND	5.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	22	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	3.7	1.0
Carbon tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	76	5.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	130	5.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

Surrogate	% Rec.	Acceptable Range
2-Chloropropane	118	65-135
1-Chloro-2-fluorobenzene	111	65-135

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L3017
		Client P.N.:	2455
Project Name:	Calmar	Date Sampled:	1/26/96
Project Address:	333 Turnbull Canyon City of Industry	Date Analyzed:	1/30/96
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	EBP1-012696	
Parameters	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	1.0
Vinyl chloride	ND	1.0
Trichlorofluoromethane	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethene	ND	1.0
Methylene chloride	ND	5.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	4.6	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	1.7	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	ND	1.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

Surrogate	% Rec.	Acceptable Range
2-Chloropropane	125	65-135
1-Chloro-2-fluorobenzene	119	65-135

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L3017
		Client P.N.:	2455
Project Name:	Calmar	Date Sampled:	N/A
Project Address:	333 Turnbull Canyon City of Industry	Date Analyzed:	1/30/96-1/31/96
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	Method Blank 1/30/96	Method Blank 1/31/96	
Parameters	Conc. (µg/l)	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	ND	1.0
Vinyl chloride	ND	ND	1.0
Trichlorofluoromethane	ND	ND	1.0
Bromomethane	ND	ND	1.0
Chloroethane	ND	ND	1.0
1,1-Dichloroethene	ND	ND	5.0
Methylene chloride	ND	ND	5.0
trans-1,2-Dichloroethene	ND	ND	1.0
1,1-Dichloroethane	ND	ND	1.0
cis-1,2-Dichloroethene	ND	ND	1.0
Chloroform	ND	ND	1.0
1,1,1-Trichloroethane	ND	ND	1.0
Carbon tetrachloride	ND	ND	1.0
1,2-Dichloroethane	ND	ND	1.0
Trichloroethene	ND	ND	1.0
1,2-Dichloropropane	ND	ND	1.0
Bromodichloromethane	ND	ND	1.0
cis-1,3-Dichloropropene	ND	ND	1.0
trans-1,3-Dichloropropene	ND	ND	1.0
1,1,2-Trichloroethane	ND	ND	1.0
Tetrachloroethene	ND	ND	1.0
Dibromochloromethane	ND	ND	1.0
Chlorobenzene	ND	ND	1.0
Bromoform	ND	ND	1.0
1,1,2,2-Tetrachloroethane	ND	ND	1.0
1,3-Dichlorobenzene	ND	ND	1.0
1,4-Dichlorobenzene	ND	ND	1.0
1,2-Dichlorobenzene	ND	ND	1.0

Surrogate	% Rec.	% Rec.	Acceptable Range
2-Chloropropane	110	125	65-135
1-Chloro-2-fluorobenzene	103	117	65-135

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

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Thermo Analytical

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1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274

Formerly Terra Tech Labs

February 8, 1996

Mr. Dave Field
Levine-Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

RE: Case Narrative for Project Number 2455/L3017

Dear Mr. Field:

Listed below is additional case narrative information necessary due to special circumstances that were encountered during the analysis of the above-referenced project.

The three (3) liquid samples received January 26, 1996 were analyzed 1/30/96-1/31/96 by Thermo Analytical for Halogenated Volatile Organic Compounds by EPA 8010.

During the EPA 8010 analysis, the 1/30/96 daily calibration had Chloromethane percent difference (% DIFF) greater than the 15% limit. However, Chloromethane was not detected in any of the samples and was within the corresponding 35% limit. The rest of the compounds were within the acceptable limit. The 1/31/96 daily calibration is applicable only for the compounds requiring dilutions. These compounds were all within the acceptable limit.

If you should have any questions or need further information, please do not hesitate to contact me at 714.757.7022.

Sincerely,

Don Burley
Program Manager

Enclosure

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM

Laboratory Name: Thermo Analytical
Address: 1920 E. Deere Avenue, Santa Ana, CA 92705

Telephone: (714) 757-7022

Laboratory Certification (ELAP) Number: 1155 Expiration Date: 3/31/96

Program Manager's Name (Print): Don Burley

Program Manager's Signature: Don Burley

Client: Levine-Fricke
Project Number: 2455/L3017

Analytical Method: (Circle One)	EPA 502.1	EPA 503.1	EPA 502.2	EPA 524.1
				EPA 524.2
	EPA 601	EPA 602		EPA 624
				EPA 8240
	[EPA 8010]	EPA 8020	EPA 8021	EPA 8260
Other				
Date Sampled:	1/26/96			
Date Received:	1/26/96			
Date Reported:	2/7/96			
Sample Matrix:	Liquid			
Extraction Method:	5030A			
Extraction Material:	-			

Chain of Custody Received: [Yes] No

Sample Condition: Intact, received chilled.

- - Sample Headspace Description (%): Zero Headspace
- - Sample Container Material: 40-ml VOA vial

Comments:

ANALYTICAL TEST RESULT (a)

Reporting Unit (Circle One): µg/kg | µg/l

		DATE ANALYZED:	1/30/96	1/30/96	1/30/96
		DATE EXTRACTED:	-	-	-
		DILUTION FACTOR:	1.0	1.0	1.0
		LAB SAMPLE I.D.:	L3017-1	L3017-2	L3017-3
		CLIENT SAMPLE I.D.:	P1-012696	MW3-012696	EBP1-012696
COMPOUND (b)	MDL	MB			
Bromobenzene	-	NA	NA	NA	NA
Bromodichloromethane	0.28	ND	ND	ND	1.7
Bromoform	0.25	ND	ND	ND	ND
Bromomethane	0.18	ND	ND	ND	ND
Carbon tetrachloride	0.28	ND	ND	ND	ND
Chloroethane	0.19	ND	ND	ND	ND
Chloroform	0.17	ND	0.25	0.26	4.6
1-Chlorohexane	-	NA	NA	NA	NA
Chloromethane	0.30	ND	ND	ND	ND
Dibromochloromethane	0.22	ND	ND	ND	0.53
Dibromomethane	-	NA	NA	NA	NA
Dichlorodifluoromethane	-	NA	NA	NA	NA
1,1-Dichloroethane (1,1-DCA)	0.19	ND	3.7	22	ND
1,2-Dichloroethane (1,2-DCA)	0.19	ND	ND	0.63	ND
1,1-Dichloroethylene (1,1-DCE)	0.15	ND	100*	130*	ND
trans-1,2-Dichloroethylene	0.17	ND	0.20	0.22	ND
Dichloromethane (MeCl2)	0.29	ND	ND	ND	0.36
1,2-Dichloropropane	0.24	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.38	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.34	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	-	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.41	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.29	ND	23	130*	ND
1,1,1-Trichloroethane (1,1,1-TCA)	0.22	ND	2.1	3.7	0.27
1,1,2-Trichloroethane (1,1,2-TCA)	0.27	ND	ND	0.40	ND
Trichloroethylene (TCE)	0.19	ND	29	76*	ND
1,2,3-Trichloropropane	-	NA	NA	NA	NA
Trichlorofluoromethane	0.19	ND	ND	ND	ND
Vinyl chloride	0.19	ND	0.32	3.9	ND
Benzene	-	NA	NA	NA	NA
Chlorobenzene	-	NA	NA	NA	NA
1,2-Dichlorobenzene	-	NA	NA	NA	NA
1,3-Dichlorobenzene	-	NA	NA	NA	NA
1,4-Dichlorobenzene	-	NA	NA	NA	NA
Ethyl benzene	-	NA	NA	NA	NA
Toluene	-	NA	NA	NA	NA

MDL = Method Detection Limit
ND = Not Detected (Below MDL)
*Dilution factor = 5; analyzed 1/31/96
a = Report Any Value >/= MDL
b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

MB = Method Blank
NA = Not Analyzed

ANALYTICAL TEST RESULT (cont'd)

			LAB SAMPLE I.D.:	L3017-1	L3017-2	L3017-3
			CLIENT SAMPLE I.D.:	P1-012696	MW3-012696	EBP1-012696
COMPOUND (b)		MDL	MB			
m,p-Xylenes		-	NA	NA	NA	NA
o-Xylene		-	NA	NA	NA	NA
Acetone		-	NA	NA	NA	NA
Acrolein		-	NA	NA	NA	NA
Acrylonitrile		-	NA	NA	NA	NA
Bromochloromethane		-	NA	NA	NA	NA
n-Butylbenzene		-	NA	NA	NA	NA
sec-Butylbenzene		-	NA	NA	NA	NA
tert-Butylbenzene		-	NA	NA	NA	NA
2-Chloroethylvinyl ether		-	NA	NA	NA	NA
2-Chlorotoluene		-	NA	NA	NA	NA
4-Chlorotoluene		-	NA	NA	NA	NA
Dichlorodifluoromethane		-	NA	NA	NA	NA
cis-1,2-Dichloroethylene		-	NA	NA	NA	NA
1,3-Dichloropropane		-	NA	NA	NA	NA
2,2-Dichloropropane		-	NA	NA	NA	NA
1,1-Dichloropropylene		-	NA	NA	NA	NA
Ethylene dibromide (EDB)		-	NA	NA	NA	NA
Hexachlorobutadiene		-	NA	NA	NA	NA
Isopropylbenzene		-	NA	NA	NA	NA
p-Isopropyltoluene		-	NA	NA	NA	NA
Methyl Ethyl Ketone		-	NA	NA	NA	NA
Methyl Isobutyl Ketone		-	NA	NA	NA	NA
Naphthalene		-	NA	NA	NA	NA
n-Propylbenzene		-	NA	NA	NA	NA
Styrene		-	NA	NA	NA	NA
1,2,3-Trichlorobenzene		-	NA	NA	NA	NA
1,2,4-Trichlorobenzene		-	NA	NA	NA	NA
1,2,4-Trimethylbenzene		-	NA	NA	NA	NA
1,3,5-Trimethylbenzene		-	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane		-	NA	NA	NA	NA
Surrogate	Spk Conc	ACP%	MB % RC	%RC	%RC	%RC
2-Chloropropane	20.0	65-135	110	115	118	125
1-Chloro-2-fluorobenzene	20.0	65-135	103	112	111	119

MDL = Method Detection Limit
ND = Not Detected (Below MDL)
SPK CONC = Spiking concentration (</=5 x PQL)
ACP % = Acceptable Range of Percent

MB = Method Blank
NA = Not Analyzed
PQL = Practical quantitation limit
%RC = % Recovery

a = Report Any Value >/= MDL
b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

QA/QC REPORT

Reporting Unit (Circle One): µg/kg [µg/l]

I. Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

Date Performed: 1/30/96
Batch #: 013096L
Lab Sample ID: L3017-2

ANALYTE	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP %MS	ACP RPD
1,1-Dichloroethane	20.0	18.6	93	17.2	86	8	73-121	0-18
1,1,1-Trichloroethane	20.0	19.8	99	19.1	95	4	72-126	0-15
cis-1,3-Dichloropropene	20.0	19.6	98	19.0	95	3	58-124	0-22
Chlorobenzene	40.0	39.0	98	38.8	97	1	52-131	0-42

II. Laboratory Quality Control Check Sample

Date Performed: 1/30/96
Batch #: 013096LCS
Lab Sample ID: LCS

ANALYTE	SPK CONC	RESULT	% RECOVERY	ACP %
1,1-Dichloroethane	20.0	19.0	95	80-120
1,1,1-Trichloroethane	20.0	19.1	95	80-120
cis-1,3-Dichloropropene	20.0	18.1	91	80-120
Chlorobenzene	40.0	36.9	92	80-120

ANALYST

2/9/96
DATE

SPK CONC = Spiking concentration (</=5 x PQL)
%MS = Percent recovery of MS; %MSD = Percent recovery of MSD;
RPD = Relative percent difference

PQL = Practical quantitation limit
%MSD = Percent recovery of MSD;
ACP = Acceptable range of percent;

QA/QC REPORT

Reporting Unit (Circle One): µg/kg [µg/l]

I. Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

Date Performed: 1/31/96
Batch #: 013196L
Lab Sample ID: L3016-9

ANALYTE	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP %MS	ACP RPD
1,1-Dichloroethane	20.0	20.6	103	20.0	100	3	73-121	0-18
1,1,1-Trichloroethane	20.0	20.0	100	19.8	99	1	72-126	0-15
cis-1,3-Dichloropropene	20.0	20.4	102	19.9	99	3	58-124	0-22
Chlorobenzene	40.0	41.2	103	39.2	98	5	52-131	0-42

II. Laboratory Quality Control Check Sample

Date Performed: 1/31/96
Batch #: 013196LCS
Lab Sample ID: LCS

ANALYTE	SPK CONC	RESULT	% RECOVERY	ACP %
1,1-Dichloroethane	20.0	21.2	106	80-120
1,1,1-Trichloroethane	20.0	20.6	103	80-120
cis-1,3-Dichloropropene	20.0	20.3	102	80-120
Chlorobenzene	40.0	40.4	101	80-120

ANALYST

2/9/96
DATE

SPK CONC = Spiking concentration (<=5 x PQL)
%MS = Percent recovery of MS; %MSD = Percent recovery of MSD;
RPD = Relative percent difference

PQL = Practical quantitation limit
%MSD = Percent recovery of MSD;
ACP = Acceptable range of percent;

QA/QC INSTRUMENT CALIBRATIONS

III. Calibration Standard

	MOST RECENT INITIAL CALIBRATION		DAILY CALIBRATION
Date:	1/4/96	Date:	1/30/96
Supply Source:	Ultra Scientific	Supply Source:	Ultra Scientific

COMPOUND (c)	INITIAL RF (ave)	%RSD (d)	DAILY RF	% DIFF (e) w/RF ave
Bromobenzene	NA	NA	NA	NA
Bromochloromethane	9180	7	9584	4
Bromodichloromethane	11510	8	11771	2
Bromoform	5023	12	5712	14
Bromomethane	4117	3	4009	3
Carbon tetrachloride	17084	9	17364	2
Chloroethane	8384	5	8222	2
Chloroform	16498	9	16768	2
1-Chlorohexane	NA	NA	NA	NA
Chloromethane	9473	9	7040	26*
Dibromochloromethane	7344	11	7807	6
Dibromomethane	NA	NA	NA	NA
Dichloromethane (Methylene chloride)	16125	15	15783	2
1,1-Dichloroethane (1,1-DCA)	12628	7	13071	4
1,2-Dichloroethane (1,2-DCA)	12149	8	12290	1
1,1-Dichloroethylene (1,1-DCE)	11918	7	12262	3
trans-1,2-Dichloroethylene	12571	7	13069	4
1,2-Dichloropropane	11658	11	11301	3
cis-1,3-Dichloropropylene	10258	9	10491	2
trans-1,3-Dichloropropylene	9550	9	9771	2
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	9102	16	9157	1
Tetrachloroethylene (PCE)	14516	11	14433	1
1,1,1-Trichloroethane (1,1,1-TCA)	14631	9	14720	1
1,1,2-Trichloroethane (1,1,2-TCA)	12540	11	12240	2
Trichloroethylene (TCE)	15172	11	14758	3
1,2,3-Trichloropropane	NA	NA	NA	NA
Trichlorofluoromethane	12648	8	12851	2
Vinyl chloride (VC)	7526	7	7669	2

*Value outside acceptable limits.

NA = Not Analyzed

INITIAL RF ave = Average response factor from initial calibration

DAILY RF = Response factor from daily calibration

%RSD = Percent relative standard deviation

%DIFF = Percent difference

< = System Performance (SPCC) for GC/MS Methods.

c = Listed compounds are ordered by laborabory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS.
d = Value </= 10% for GC EPA Methods 500 & 600 Series, </= 20% for GC EPA Methods 8000 Series, </= 30% for GC/MS Methods.
e = Value </= 20% for GC EPA Methods 500 & 600 Series, </= 15% for GC EPA Methods 8000 Series, </= 25% for GC/MS Methods.

III. Calibration Standard (cont'd)

COMPOUND (c)	INITIAL RF ave	%RSD (d)	DAILY RF	% DIFF (e) w/RF ave
Benzene	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA
Ethyl benzene	NA	NA	NA	NA
Toluene	NA	NA	NA	NA
m,p-Xylenes	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA
Acetone	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA
sec-Butylbenzene	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA
2-Chloroethylvinyl ether	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA
Dichloro-difluoromethane	NA	NA	NA	NA
cis-1,2-Dichloroethylene	NA	NA	NA	NA
trans-1,2-Dichloroethylene	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA
1,1-Dichloropropylene	NA	NA	NA	NA
Ethylene dibromide (EDB)	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA	NA
Methyl Ethyl Ketone	NA	NA	NA	NA
Methyl Isobutyl Ketone	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA
Styrene	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane	NA	NA	NA	NA

*Value outside acceptable limits.

NA = Not Analyzed

INITIAL RF ave = Average response factor from initial calibration

DAILY RF = Response factor from daily calibration

%RSD = Percent relative standard deviation

%DIFF = Percent difference

< = System Performance (SPCC) for GC/MS Methods.

c = Listed compounds are ordered by laboratory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS.
d = Value </= 10% for GC EPA Methods 500 & 600 Series, </= 20% for GC EPA Methods 8000 Series, </= 30% for GC/MS Methods.
e = Value </= 20% for GC EPA Methods 500 & 600 Series, </= 15% for GC EPA Methods 8000 Series, </= 25% for GC/MS Methods.

QA/QC INSTRUMENT CALIBRATIONS

III. Calibration Standard

	MOST RECENT INITIAL CALIBRATION		DAILY CALIBRATION
Date:	1/4/96	Date:	1/31/96
Supply Source:	Ultra Scientific	Supply Source:	Ultra Scientific

COMPOUND (c)	INITIAL RF (ave)	%RSD (d)	DAILY RF	% DIFF (e) w/RF ave
Bromobenzene	NA	NA	NA	NA
Bromochloromethane	9180	7	9585	4
Bromodichloromethane	11510	8	12222	6
Bromoform	5023	12	5733	14
Bromomethane	4117	3	4699	14
Carbon tetrachloride	17084	9	17652	3
Chloroethane	8384	5	8134	3
Chloroform	16498	9	16673	1
1-Chlorohexane	NA	NA	NA	NA
Chloromethane	9473	9	6078	36*
Dibromochloromethane	7344	11	8414	15
Dibromomethane	NA	NA	NA	NA
Dichloromethane (Methylene chloride)	16125	15	15701	3
1,1-Dichloroethane (1,1-DCA)	12628	7	13177	4
1,2-Dichloroethane (1,2-DCA)	12149	8	12426	2
1,1-Dichloroethylene (1,1-DCE)	11918	7	12598	6
trans-1,2-Dichloroethylene	12571	7	13187	5
1,2-Dichloropropane	11658	11	11567	1
cis-1,3-Dichloropropylene	10258	9	10496	2
trans-1,3-Dichloropropylene	9550	9	9697	2
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	9102	16	9321	2
Tetrachloroethylene (PCE)	14516	11	14560	0
1,1,1-Trichloroethane (1,1,1-TCA)	14631	9	14977	2
1,1,2-Trichloroethane (1,1,2-TCA)	12540	11	12617	1
Trichloroethylene (TCE)	15172	11	15280	1
1,2,3-Trichloropropane	NA	NA	NA	NA
Trichlorofluoromethane	12648	8	13141	4
Vinyl chloride (VC)	7526	7	8683	15

*Value outside acceptable limits.

NA = Not Analyzed

INITIAL RF ave = Average response factor from initial calibration

DAILY RF = Response factor from daily calibration

%RSD = Percent relative standard deviation

%DIFF = Percent difference

< = System Performance (SPCC) for GC/MS Methods.

c = Listed compounds are ordered by laborabory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS.
d = Value <= 10% for GC EPA Methods 500 & 600 Series, <= 20% for GC EPA Methods 8000 Series, <= 30% for GC/MS Methods.
e = Value <= 20% for GC EPA Methods 500 & 600 Series, <= 15% for GC EPA Methods 8000 Series, <= 25% for GC/MS Methods.

III. Calibration Standard (cont'd)

COMPOUND (c)	INITIAL RF ave	%RSD (d)	DAILY RF	% DIFF (e) w/RF ave
Benzene	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA
Ethyl benzene	NA	NA	NA	NA
Toluene	NA	NA	NA	NA
m,p-Xylenes	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA
Acetone	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA
sec-Butylbenzene	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA
2-Chloroethylvinyl ether	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA
Dichloro-difluoromethane	NA	NA	NA	NA
cis-1,2-Dichloroethylene	NA	NA	NA	NA
trans-1,2-Dichloroethylene	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA
1,1-Dichloropropylene	NA	NA	NA	NA
Ethylene dibromide (EDB)	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA	NA
Methyl Ethyl Ketone	NA	NA	NA	NA
Methyl Isobutyl Ketone	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA
Styrene	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA
1,1,2-Trichlorotrifluoroethane	NA	NA	NA	NA

*Value outside acceptable limits.

NA = Not Analyzed

INITIAL RF ave = Average response factor from initial calibration

DAILY RF = Response factor from daily calibration

%RSD = Percent relative standard deviation

%DIFF = Percent difference

< = System Performance (SPCC) for GC/MS Methods.

c = Listed compounds are ordered by laborabory analytical methods: halogenated, aromatic, then remaining compounds identified by GC/MS.
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e = Value </= 20% for GC EPA Methods 500 & 600 Series, </= 15% for GC EPA Methods 8000 Series, </= 25% for GC/MS Methods.

Project No.: 2455

Field Logbook No.:

Date: 1/26/96

Serial No.: No N- 3716

Project Name: Calmar

Project Location: 333 Turnmill Canyon

Sampler (Signature):

Samplers: DAK, GJM

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	8010				HOLD	RUSH	REMARKS
P1-0126-X	1/26	11:00	L3011-1	2	H_2O			X						Normal Turnaround
M13- ↓	↓	11:45	↓ -2	2	↓			X						
EBF1 - ↓	↓	12:10	↓ -3	2	↓			X						Results to Dave Field
														Any questions, please page me at (714) 451-7956
														Thank you, DINA

RELINQUISHED BY: (Signature)	DATE 1/26/96	TIME 1:14	RECEIVED BY: (Signature) Sarah Dino THA SA	DATE 1/26/96	TIME 13 15
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
1920 Main Street, Suite 750
Irvine, California 92714
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory: Thermo

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

FORM NO. 86/COC/ARF

B C Analytical

801 Western Avenue
Glendale, CA 91201
818/247-5737
Fax: 818/247-9797

ANALYTICAL REPORT

LOG NO: G96-07-661

Received: 25 JUL 96

Mailed: 8/5/96

Mr. Ian Goltz
Levine-Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project: 2455/CALMAR

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
07-661-1	MW3-72396	23 JUL 96
07-661-2	P1-72396	23 JUL 96
07-661-3	MW2-72396	23 JUL 96
07-661-4	MW4-72496	24 JUL 96
07-661-5	EQBL-72496	24 JUL 96

PARAMETER	07-661-1	07-661-2	07-661-3	07-661-4	07-661-5
Halocarbons (8010)					
Date Analyzed	08/01/96	08/01/96	08/01/96	08/02/96	08/01/96
Date Confirmed	08/01/96	08/01/96	08/01/96	08/02/96	08/01/96
Dilution Factor, Times	2	2	2	1	1
1,1,1-Trichloroethane, ug/L	1.6	<1	1.7	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<1	<1	<1	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<1	<1	<1	<0.5	<0.5
1,1-Dichloroethane, ug/L	1.3	1.4	1.8	<0.5	<0.5
1,1-Dichloroethene, ug/L	28	120	10	0.52	<0.5
1,2-Dichloroethane, ug/L	<1	<1	<1	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<1	<1	<1	<0.5	<0.5
1,2-Dichloropropane, ug/L	<1	<1	<1	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<1	<1	<1	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<1	<1	<1	<0.5	<0.5
Bromodichloromethane, ug/L	<1	<1	<1	<0.5	<0.5
Bromomethane, ug/L	<1	<1	<1	<0.5	<0.5
Bromoform, ug/L	<1	<1	<1	<0.5	<0.5
Chlorobenzene, ug/L	<1	<1	<1	<0.5	<0.5
Carbon Tetrachloride, ug/L	<1	<1	<1	<0.5	<0.5
Chloroethane, ug/L	<1	<1	<1	<0.5	<0.5
Chloroform, ug/L	<1	<1	<1	<0.5	<0.5
Chloromethane, ug/L	<1	<1	<1	<0.5	<0.5
Dibromochloromethane, ug/L	<1	<1	<1	<0.5	<0.5
Freon 113, ug/L	<1	<1	<1	2.7	<0.5

LOG NO: G96-07-661

Received: 25 JUL 96

Mr. Ian Goltz
Levine-Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project: 2455/CALMAR

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
07-661-1	MW3-72396	23 JUL 96
07-661-2	P1-72396	23 JUL 96
07-661-3	MW2-72396	23 JUL 96
07-661-4	MW4-72496	24 JUL 96
07-661-5	EQBL-72496	24 JUL 96

PARAMETER	07-661-1	07-661-2	07-661-3	07-661-4	07-661-5
Methylene chloride, ug/L	<4	<4	<4	<2	<2
Trichloroethene, ug/L	34	29	92	2.5	<0.5
Trichlorofluoromethane, ug/L	<1	<1	<1	<0.5	<0.5
Tetrachloroethene, ug/L	120	32	2.4	8.1	<0.5
Vinyl chloride, ug/L	<1	<1	<1	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<1	<1	<1	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<1	<1	<1	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<1	<1	<1	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<1	<1	<1	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	93.4	102	98.1	48.1	52.2
Bromochloromethane Theoretical, ug/L	100	100	100	50.0	50.0

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Project: 2455/CALMAR

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
07-661-6	MW5-72496	24 JUL 96
07-661-7	P3-72496	24 JUL 96
07-661-8	MW7-72496	24 JUL 96
07-661-9	MW6-72496	24 JUL 96

PARAMETER	07-661-6	07-661-7	07-661-8	07-661-9
Halocarbons (8010)				
Date Analyzed	08/01/96	08/01/96	08/01/96	08/01/96
Date Confirmed	08/01/96	08/01/96	08/01/96	08/01/96
Dilution Factor, Times	1	1	1	1
1,1,1-Trichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	<0.5	2.8	<0.5
1,1-Dichloroethene, ug/L	<0.5	<0.5	80	0.71
1,2-Dichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<0.5	<0.5
Freon 113, ug/L	<0.5	1.4	<0.5	<0.5

LOG NO: G96-07-661

Received: 25 JUL 96

Mr. Ian Goltz
Levine-Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project: 2455/CALMAR

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
07-661-6	MW5-72496	24 JUL 96
07-661-7	P3-72496	24 JUL 96
07-661-8	MW7-72496	24 JUL 96
07-661-9	MW6-72496	24 JUL 96

PARAMETER	07-661-6	07-661-7	07-661-8	07-661-9
Methylene chloride, ug/L	<2	<2	<2	<2
Trichloroethene, ug/L	0.59	<0.5	43	77
Trichlorofluoromethane, ug/L	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5	0.87	2.4
Vinyl chloride, ug/L	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	2.3	0.61
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5
Surrogates **				
Bromochloromethane Reported, ug/L	55.6	53.3	54.1	54.6
Bromochloromethane Theoretical, ug/L	50.0	50.0	50.0	50.0

LOG NO: G96-07-661

Received: 25 JUL 96

Mr. Ian Goltz
Levine-Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project: 2455/CALMAR

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
07-661-10	Trip Blank	24 JUL 96

PARAMETER	07-661-10
Halocarbons (8010)	
Date Analyzed	08/01/96
Date Confirmed	08/01/96
Dilution Factor, Times	1
1,1,1-Trichloroethane, ug/L	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5
1,1,2-Trichloroethane, ug/L	<0.5
1,1-Dichloroethane, ug/L	<0.5
1,1-Dichloroethene, ug/L	<0.5
1,2-Dichloroethane, ug/L	<0.5
1,2-Dichlorobenzene, ug/L	<0.5
1,2-Dichloropropane, ug/L	<0.5
1,3-Dichlorobenzene, ug/L	<0.5
1,4-Dichlorobenzene, ug/L	<0.5
Bromodichloromethane, ug/L	<0.5
Bromomethane, ug/L	<0.5
Bromoform, ug/L	<0.5
Chlorobenzene, ug/L	<0.5
Carbon Tetrachloride, ug/L	<0.5
Chloroethane, ug/L	<0.5
Chloroform, ug/L	<0.5
Chloromethane, ug/L	<0.5
Dibromochloromethane, ug/L	<0.5
Freon 113, ug/L	<0.5
Methylene chloride, ug/L	<2
Trichloroethene, ug/L	<0.5
Trichlorofluoromethane, ug/L	<0.5

LOG NO: G96-07-661

Received: 25 JUL 96

Mr. Ian Goltz
Levine-Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project: 2455/CALMAR

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
07-661-10	Trip Blank	24 JUL 96

PARAMETER	07-661-10
Tetrachloroethene, ug/L	<0.5
Vinyl chloride, ug/L	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5
Surrogates **	
Bromochloromethane Reported, ug/L	51.4
Bromochloromethane Theoretical, ug/L	50.0

Eric Stratton for
Greta Galoustian, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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BC ANALYTICAL, GLENDALE
QC REPORT FOR 9607661
DATE PRINTED: 05 AUG 1996

AQUEOUS SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD	
	UNITS	RESULT	RDL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: VH*963102 Method: 8010 - Halogenated Volatile Organics																						
1,1,1-Trichloroethane	ug/L	0	0.5	-	102	-	-	-	61	138	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.11	0.5	-	91	-	-	-	42	141	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	0.5	-	94	-	-	-	57	133	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	0	0.5	-	96	-	-	-	65	130	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	0	0.5	-	98	-	-	-	54	138	-	-	-	101	-	94	-	50	147	7	27	-
1,2-Dichloroethane	ug/L	0	0.5	-	93	-	-	-	64	132	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	0	0.5	-	91	-	-	-	64	128	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0	0.5	-	97	-	-	-	53	147	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	0.5	-	90	-	-	-	63	130	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	0.5	-	93	-	-	-	69	133	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	0	0.5	-	100	-	-	-	70	130	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/L	0	0.5	-	106	-	-	-	39	133	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	ug/L	0	0.5	-	95	-	-	-	53	133	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	0	0.5	-	100	-	-	-	61	135	-	-	-	104	-	94	-	61	139	10	19	-
Carbon Tetrachloride	ug/L	0	0.5	-	96	-	-	-	64	132	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	0	0.5	-	98	-	-	-	46	137	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ug/L	0	0.5	-	104	-	-	-	65	133	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/L	0	0.5	-	80	-	-	-	1	160	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	0	0.5	-	95	-	-	-	65	127	-	-	-	-	-	-	-	-	-	-	-	-
Freon 113	ug/L	0	0.5	-	95	-	-	-	37	152	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	0.50	2	-	91	-	-	-	57	137	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	0	0.5	-	100	-	-	-	63	141	-	-	-	107	-	94	-	52	162	12	43	-
Trichlorofluoromethane	ug/L	0	0.5	-	98	-	-	-	42	154	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	0	0.5	-	103	-	-	-	64	139	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	0	0.5	-	103	-	-	-	40	144	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	0.5	-	97	-	-	-	63	129	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	0.5	-	93	-	-	-	65	132	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	0.5	-	99	-	-	-	59	139	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	0.5	-	92	-	-	-	60	130	-	-	-	-	-	-	-	-	-	-	-	-
[Bromochloromethane]	Percent	104	-	-	92	-	-	-	69	140	-	-	-	100	-	96	-	69	140	-	-	-

BC ANALYTICAL, GLENDALE
QC REPORT FOR 9607661
DATE PRINTED: 05 AUG 1996

AQUEOUS SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD	
	UNITS	RESULT	RDL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: VH*963103 Method: 8010 - Halogenated Volatile Organics																						
1,1,1-Trichloroethane	ug/L	0	0.5	-	107	-	-	-	61	138	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0	0.5	-	74	-	-	-	42	141	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	0.5	-	85	-	-	-	57	133	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	0	0.5	-	100	-	-	-	65	130	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	0	0.5	-	103	-	-	-	54	138	-	-	-	99	-	102	-	50	147	3	27	-
1,2-Dichloroethane	ug/L	0	0.5	-	87	-	-	-	64	132	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	0	0.5	-	91	-	-	-	64	128	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0	0.5	-	98	-	-	-	53	147	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	0.5	-	88	-	-	-	63	130	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	0.5	-	92	-	-	-	69	133	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	0	0.5	-	98	-	-	-	70	130	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/L	0	0.5	-	108	-	-	-	39	133	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	ug/L	0	0.5	-	81	-	-	-	53	133	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	0	0.5	-	103	-	-	-	61	135	-	-	-	102	-	102	-	61	139	0	19	-
Carbon Tetrachloride	ug/L	0	0.5	-	101	-	-	-	64	132	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	0	0.5	-	96	-	-	-	46	137	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ug/L	0	0.5	-	106	-	-	-	65	133	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/L	0	0.5	-	72	-	-	-	1	160	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	0	0.5	-	88	-	-	-	65	127	-	-	-	-	-	-	-	-	-	-	-	-
Freon 113	ug/L	0	0.5	-	98	-	-	-	37	152	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	0	2	-	94	-	-	-	57	137	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	0	0.5	-	104	-	-	-	63	141	-	-	-	100	-	103	-	52	162	3	43	-
Trichlorofluoromethane	ug/L	0	0.5	-	101	-	-	-	42	154	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	0	0.5	-	106	-	-	-	64	139	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	0	0.5	-	106	-	-	-	40	144	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	0.5	-	98	-	-	-	63	129	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	0.5	-	89	-	-	-	65	132	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	0.5	-	103	-	-	-	59	139	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	0.5	-	82	-	-	-	60	130	-	-	-	-	-	-	-	-	-	-	-	-
[Bromochloromethane]	Percent	106	-	-	89	-	-	-	69	140	-	-	-	96	-	102	-	69	140	-	-	-

BC ANALYTICAL, GLENDALE
SUPPLEMENTAL QC REPORT FOR 9607661
DATE PRINTED: 05 AUG 1996

AQUEOUS SAMPLES

Batch: VH*963102 Method: 8010 - Halogenated Volatile Organics

		B6072693*1	C6073923*1	.....	N/A		9607712*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	07/31/96	07/31/96	07/31/96	-	-	07/31/96	-	07/31/96	07/31/96	07/31/96
Date Confirmed	Date	07/31/96	07/31/96	07/31/96	-	-	07/31/96	-	07/31/96	07/31/96	07/31/96
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
1,1,1-Trichloroethane	ug/L	0	51.1	50.0	-	-	<0.5	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.11	45.5	50.0	-	-	<0.5	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	47.0	50.0	-	-	<0.5	-	-	-	-
1,1-Dichloroethane	ug/L	0	47.9	50.0	-	-	<0.5	-	-	-	-
1,1-Dichloroethene	ug/L	0	48.9	50.0	-	-	0.79	-	51.3	47.7	50.8
1,2-Dichloroethane	ug/L	0	46.5	50.0	-	-	<0.5	-	-	-	-
1,2-Dichlorobenzene	ug/L	0	45.6	50.0	-	-	<0.5	-	-	-	-
1,2-Dichloropropane	ug/L	0	48.5	50.0	-	-	<0.5	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	45.1	50.0	-	-	<0.5	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	46.7	50.0	-	-	<0.5	-	-	-	-
Bromodichloromethane	ug/L	0	49.9	50.0	-	-	<0.5	-	-	-	-
Bromomethane	ug/L	0	53.2	50.0	-	-	<0.5	-	-	-	-
Bromoform	ug/L	0	47.6	50.0	-	-	<0.5	-	-	-	-
Chlorobenzene	ug/L	0	49.9	50.0	-	-	<0.5	-	52.1	47.0	50.0
Carbon Tetrachloride	ug/L	0	48.1	50.0	-	-	<0.5	-	-	-	-
Chloroethane	ug/L	0	49.1	50.0	-	-	<0.5	-	-	-	-
Chloroform	ug/L	0	51.9	50.0	-	-	<0.5	-	-	-	-
Chloromethane	ug/L	0	39.8	50.0	-	-	<0.5	-	-	-	-
Dibromochloromethane	ug/L	0	47.3	50.0	-	-	<0.5	-	-	-	-
Freon 113	ug/L	0	47.3	50.0	-	-	3.4	-	-	-	-
Methylene chloride	ug/L	0.50	45.6	50.0	-	-	<2	-	-	-	-
Trichloroethene	ug/L	0	49.8	50.0	-	-	2.8	-	56.3	49.8	52.8
Trichlorofluoromethane	ug/L	0	48.9	50.0	-	-	<0.5	-	-	-	-
Tetrachloroethene	ug/L	0	51.6	50.0	-	-	8.7	-	-	-	-
Vinyl chloride	ug/L	0	51.5	50.0	-	-	<0.5	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	48.3	50.0	-	-	<0.5	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	46.3	50.0	-	-	<0.5	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	49.4	50.0	-	-	<0.5	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	45.9	50.0	-	-	<0.5	-	-	-	-
Bromochloromethane Reported	ug/L	51.8	46.1	50.0	-	-	58.2	-	49.9	48.2	50.0
Bromochloromethane Theoretical	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0

BC ANALYTICAL, GLENDALE
SUPPLEMENTAL QC REPORT FOR 9607661
DATE PRINTED: 05 AUG 1996

AQUEOUS SAMPLES

Batch: VH*963103 Method: 8010 - Halogenated Volatile Organics

		B608076*1	C608154*1	.....	N/A	.....	9607723*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	08/01/96	08/01/96	08/01/96	-	-	08/01/96	-	08/02/96	08/02/96	08/02/96
Date Confirmed	Date	08/01/96	08/01/96	08/01/96	-	-	-	-	-	-	-
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
1,1,1-Trichloroethane	ug/L	0	53.5	50.0	-	-	<0.5	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0	36.8	50.0	-	-	<0.5	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	42.7	50.0	-	-	<0.5	-	-	-	-
1,1-Dichloroethane	ug/L	0	49.9	50.0	-	-	<0.5	-	-	-	-
1,1-Dichloroethene	ug/L	0	51.7	50.0	-	-	<0.5	-	49.3	51.0	50.0
1,2-Dichloroethane	ug/L	0	43.5	50.0	-	-	<0.5	-	-	-	-
1,2-Dichlorobenzene	ug/L	0	45.5	50.0	-	-	<0.5	-	-	-	-
1,2-Dichloropropane	ug/L	0	49.2	50.0	-	-	<0.5	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	44.1	50.0	-	-	<0.5	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	45.8	50.0	-	-	<0.5	-	-	-	-
Bromodichloromethane	ug/L	0	49.1	50.0	-	-	1.6	-	-	-	-
Bromomethane	ug/L	0	54.2	50.0	-	-	<0.5	-	-	-	-
Bromoform	ug/L	0	40.6	50.0	-	-	<0.5	-	-	-	-
Chlorobenzene	ug/L	0	51.3	50.0	-	-	<0.5	-	51.2	51.1	50.0
Carbon Tetrachloride	ug/L	0	50.7	50.0	-	-	<0.5	-	-	-	-
Chloroethane	ug/L	0	48.1	50.0	-	-	<0.5	-	-	-	-
Chloroform	ug/L	0	53.0	50.0	-	-	9.1	-	-	-	-
Chloromethane	ug/L	0	35.8	50.0	-	-	<0.5	-	-	-	-
Dibromochloromethane	ug/L	0	44.1	50.0	-	-	0.53	-	-	-	-
Freon 113	ug/L	0	48.8	50.0	-	-	<0.5	-	-	-	-
Methylene chloride	ug/L	0	47.1	50.0	-	-	<2	-	-	-	-
Trichloroethene	ug/L	0	52.0	50.0	-	-	<0.5	-	50.1	51.6	50.0
Trichlorofluoromethane	ug/L	0	50.5	50.0	-	-	<0.5	-	-	-	-
Tetrachloroethene	ug/L	0	52.9	50.0	-	-	<0.5	-	-	-	-
Vinyl chloride	ug/L	0	53.1	50.0	-	-	<0.5	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	49.1	50.0	-	-	<0.5	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	44.4	50.0	-	-	<0.5	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	51.3	50.0	-	-	<0.5	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	41.1	50.0	-	-	<0.5	-	-	-	-
Bromochloromethane Reported	ug/L	53.0	44.3	50.0	-	-	51.2	-	47.8	51.0	50.0
Bromochloromethane Theoretical	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

G960716-1

Project No.: 2455	Field Logbook No.:	Date: 07/23/96	Serial No.: Nº N- 5906
Project Name: Calmar	Project Location: Industry (on File)		
Sampler (Signature):			Samplers: KEM/AID

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601/602	EPA 624					HOLD	RUSH	REMARKS
MW3-72396	07/23/96	1707		2	GW	✓								
P1-72396	07/23/96	1725		2	GW	✓								
MW2-72396	07/23/96	18:05		2	GW	✓								
MW4-72496	07/24/96	10:00am		2	GW	✓								
EQBL-72496	07/24/96	10:35		2	GW	✓								
MW5-72496	07/24/96	11:53		2	GW	✓								
P3-72496	07/24/96	13:46		2	GW	✓								
MW7-72496	07/24/96	16:00		2	GW	✓								
MW6-72496	07/24/96	16:13		2	GW	✓								
Trip Blank				1	—	✓								HOLD

RELINQUISHED BY: (Signature)	DATE 07/24/96	TIME 1724	RECEIVED BY: (Signature)	DATE 7/24/96	TIME 1724
RELINQUISHED BY: (Signature)	DATE 7/24/96	TIME 1302	RECEIVED BY: (Signature) Sharon Malone	DATE 7/24/96	TIME 1302
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
1920 Main Street, Suite 750
Irvine, California 92714
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory:

BC Analytical

B C Analytical

801 Western Avenue
Glendale, CA 91201
818/247-5737
Fax: 818/247-9797

ANALYTICAL REPORT

LOG NO: G96-07-712

Received: 26 JUL 96

Mailed: 8/5/96

Mr. Ian Goltz
Levine-Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project: 2455

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
07-712-1	MW1-72496	24 JUL 96
07-712-2	P2-72496	24 JUL 96
07-712-3	MW11-72496	24 JUL 96

PARAMETER	07-712-1	07-712-2	07-712-3
Halocarbons (8010)			
Date Analyzed	07/31/96	07/31/96	07/31/96
Date Confirmed	07/31/96	07/31/96	07/31/96
Dilution Factor, Times	1	1	1
1,1,1-Trichloroethane, ug/L	<0.5	3.4	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	3.6	<0.5
1,1-Dichloroethene, ug/L	0.79	26	0.86
1,2-Dichloroethane, ug/L	<0.5	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<0.5
Freon 113, ug/L	3.4	<0.5	3.7
Methylene chloride, ug/L	<2	<2	<2
Trichloroethene, ug/L	2.8	51	3.1

LOG NO: G96-07-712

Received: 26 JUL 96

Mr. Ian Goltz
Levine-Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project: 2455

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
07-712-1	MW1-72496	24 JUL 96
07-712-2	P2-72496	24 JUL 96
07-712-3	MW11-72496	24 JUL 96

PARAMETER	07-712-1	07-712-2	07-712-3
Trichlorofluoromethane, ug/L	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	8.7	79	9.3
Vinyl chloride, ug/L	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	2.8	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5
Surrogates **			
Bromochloromethane Reported, ug/L	58.2	52.9	56.6
Bromochloromethane Theoretical, ug/L	50.0	50.0	50.0

LOG NO: G96-07-712

Received: 26 JUL 96

Mr. Ian Goltz
Levine-Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project: 2455

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
07-712-4	Trip Blank	24 JUL 96

PARAMETER	07-712-4
Halocarbons (8010)	
Date Analyzed	07/31/96
Date Confirmed	07/31/96
Dilution Factor, Times	1
1,1,1-Trichloroethane, ug/L	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5
1,1,2-Trichloroethane, ug/L	<0.5
1,1-Dichloroethane, ug/L	<0.5
1,1-Dichloroethene, ug/L	<0.5
1,2-Dichloroethane, ug/L	<0.5
1,2-Dichlorobenzene, ug/L	<0.5
1,2-Dichloropropane, ug/L	<0.5
1,3-Dichlorobenzene, ug/L	<0.5
1,4-Dichlorobenzene, ug/L	<0.5
Bromodichloromethane, ug/L	<0.5
Bromomethane, ug/L	<0.5
Bromoform, ug/L	<0.5
Chlorobenzene, ug/L	<0.5
Carbon Tetrachloride, ug/L	<0.5
Chloroethane, ug/L	<0.5
Chloroform, ug/L	<0.5
Chloromethane, ug/L	<0.5
Dibromochloromethane, ug/L	<0.5
Freon 113, ug/L	<0.5
Methylene chloride, ug/L	<2
Trichloroethene, ug/L	<0.5
Trichlorofluoromethane, ug/L	<0.5

LOG NO: G96-07-712

Received: 26 JUL 96

Mr. Ian Goltz
Levine-Fricke
1920 Main Street, Suite 750
Irvine, CA 92714

Project: 2455

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
07-712-4	Trip Blank	24 JUL 96

PARAMETER	07-712-4
Tetrachloroethene, ug/L	<0.5
Vinyl chloride, ug/L	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5
Surrogates **	
Bromochloromethane Reported, ug/L	55.7
Bromochloromethane Theoretical, ug/L	50.0

Greta Galoustian, Laboratory Director

The analytical results within this report relate only to the specifi compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar locatio

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BC ANALYTICAL, GLENDALE
QC REPORT FOR 9607712
DATE PRINTED: 05 AUG 1996

AQUEOUS SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD	
	UNITS	RESULT	RDL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: VH*963102 Method: 8010 - Halogenated Volatile Organics																						
1,1,1-Trichloroethane	ug/L	0	0.5	-	102	-	-	-	61	138	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.11	0.5	-	91	-	-	-	42	141	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	0.5	-	94	-	-	-	57	133	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	0	0.5	-	96	-	-	-	65	130	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	0	0.5	-	98	-	-	-	54	138	-	-	-	101	-	94	-	50	147	7	27	-
1,2-Dichloroethane	ug/L	0	0.5	-	93	-	-	-	64	132	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	0	0.5	-	91	-	-	-	64	128	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0	0.5	-	97	-	-	-	53	147	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	0.5	-	90	-	-	-	63	130	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	0.5	-	93	-	-	-	69	133	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	0	0.5	-	100	-	-	-	70	130	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/L	0	0.5	-	106	-	-	-	39	133	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	ug/L	0	0.5	-	95	-	-	-	53	133	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	0	0.5	-	100	-	-	-	61	135	-	-	-	104	-	94	-	61	139	10	19	-
Carbon Tetrachloride	ug/L	0	0.5	-	96	-	-	-	64	132	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	0	0.5	-	98	-	-	-	46	137	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ug/L	0	0.5	-	104	-	-	-	65	133	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/L	0	0.5	-	80	-	-	-	1	160	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	0	0.5	-	95	-	-	-	65	127	-	-	-	-	-	-	-	-	-	-	-	-
Freon 113	ug/L	0	0.5	-	95	-	-	-	37	152	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	0.50	2	-	91	-	-	-	57	137	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	0	0.5	-	100	-	-	-	63	141	-	-	-	107	-	94	-	52	162	12	43	-
Trichlorofluoromethane	ug/L	0	0.5	-	98	-	-	-	42	154	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	0	0.5	-	103	-	-	-	64	139	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	0	0.5	-	103	-	-	-	40	144	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	0.5	-	97	-	-	-	63	129	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	0.5	-	93	-	-	-	65	132	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	0.5	-	99	-	-	-	59	139	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	0.5	-	92	-	-	-	60	130	-	-	-	-	-	-	-	-	-	-	-	-
[Bromochloromethane]	Percent	104	-	-	92	-	-	-	69	140	-	-	-	100	-	96	-	69	140	-	-	-

BC ANALYTICAL, GLENDALE
SUPPLEMENTAL QC REPORT FOR 9607712
DATE PRINTED: 05 AUG 1996

AQUEOUS SAMPLES

Batch: VH*963102 Method: 8010 - Halogenated Volatile Organics

		B6072693*1	C6073923*1	.....	N/A		9607712*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	07/31/96	07/31/96	07/31/96	-	-	07/31/96	-	07/31/96	07/31/96	07/31/96
Date Confirmed	Date	07/31/96	07/31/96	07/31/96	-	-	07/31/96	-	07/31/96	07/31/96	07/31/96
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
1,1,1-Trichloroethane	ug/L	0	51.1	50.0	-	-	<0.5	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.11	45.5	50.0	-	-	<0.5	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	47.0	50.0	-	-	<0.5	-	-	-	-
1,1-Dichloroethane	ug/L	0	47.9	50.0	-	-	<0.5	-	-	-	-
1,1-Dichloroethene	ug/L	0	48.9	50.0	-	-	0.79	-	51.3	47.7	50.8
1,2-Dichloroethane	ug/L	0	46.5	50.0	-	-	<0.5	-	-	-	-
1,2-Dichlorobenzene	ug/L	0	45.6	50.0	-	-	<0.5	-	-	-	-
1,2-Dichloropropane	ug/L	0	48.5	50.0	-	-	<0.5	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	45.1	50.0	-	-	<0.5	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	46.7	50.0	-	-	<0.5	-	-	-	-
Bromodichloromethane	ug/L	0	49.9	50.0	-	-	<0.5	-	-	-	-
Bromomethane	ug/L	0	53.2	50.0	-	-	<0.5	-	-	-	-
Bromoform	ug/L	0	47.6	50.0	-	-	<0.5	-	-	-	-
Chlorobenzene	ug/L	0	49.9	50.0	-	-	<0.5	-	52.1	47.0	50.0
Carbon Tetrachloride	ug/L	0	48.1	50.0	-	-	<0.5	-	-	-	-
Chloroethane	ug/L	0	49.1	50.0	-	-	<0.5	-	-	-	-
Chloroform	ug/L	0	51.9	50.0	-	-	<0.5	-	-	-	-
Chloromethane	ug/L	0	39.8	50.0	-	-	<0.5	-	-	-	-
Dibromochloromethane	ug/L	0	47.3	50.0	-	-	<0.5	-	-	-	-
Freon 113	ug/L	0	47.3	50.0	-	-	3.4	-	-	-	-
Methylene chloride	ug/L	0.50	45.6	50.0	-	-	<2	-	-	-	-
Trichloroethene	ug/L	0	49.8	50.0	-	-	2.8	-	56.3	49.8	52.8
Trichlorofluoromethane	ug/L	0	48.9	50.0	-	-	<0.5	-	-	-	-
Tetrachloroethene	ug/L	0	51.6	50.0	-	-	8.7	-	-	-	-
Vinyl chloride	ug/L	0	51.5	50.0	-	-	<0.5	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	48.3	50.0	-	-	<0.5	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	46.3	50.0	-	-	<0.5	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	49.4	50.0	-	-	<0.5	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	45.9	50.0	-	-	<0.5	-	-	-	-
Bromochloromethane Reported	ug/L	51.8	46.1	50.0	-	-	58.2	-	49.9	48.2	50.0
Bromochloromethane Theoretical	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 2455	Field Logbook No.:	Date: 07/24/96	Serial No.: Nº N- 5907
Project Name: Calmar	Project Location: Industry (on file)		
Sampler (Signature): [signature]			Samplers: KEM/AID

SAMPLES						ANALYSES									
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601/8010	EPA 624						HOLD	RUSH	REMARKS
MW1-72496	07/24/96	18:39		2	GW	✓									
P2-72496	07/24/96	19:03		2	GW	✓									
MW11-72496	07/24/96	1935		2	GW	✓									
Trip Blank				2	GW	✓									Hold

RELINQUISHED BY: (Signature) [signature]	DATE 07/24/96	TIME 21:56	RECEIVED BY: (Signature) [signature]	DATE 07/24/96	TIME 21:56
RELINQUISHED BY: (Signature) [signature]	DATE 07/25/96	TIME 1530	RECEIVED BY: (Signature) [signature]	DATE 07/25/96	TIME 1530
RELINQUISHED BY: (Signature) [signature]	DATE 07/25/96	TIME 1845	RECEIVED BY: (Signature) [signature]	DATE 07/25/96	TIME 1845
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:

LEVINE-FRICKE
1920 Main Street, Suite 750
Irvine, California 92714
(714) 955-1390 FAX (714) 955-0683

Analytical Laboratory:

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

FORM NO. 86/COC/ARF

LABORATORY RESULTS

Client:	Levine-Fricke	Report Date:	2/7/96
Client Address:	1920 Main Street, Suite 750 Irvine, CA 92714	Lab P.N.:	L3017
		Client P.N.:	2455
Project Name:	Calmar	Date Sampled:	1/26/96
Project Address:	333 Turnbull Canyon City of Industry	Date Analyzed:	1/30/96-1/31/96
		Physical State:	Liquid

Halogenated Volatile Organics, EPA 8010

Sample ID	P1-012696	
Parameters	Conc. (µg/l)	Quantitation Limits (µg/l)
Chloromethane	ND	1.0
Vinyl chloride	ND	1.0
Trichlorofluoromethane	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethene	100	5.0
Methylene chloride	ND	5.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	3.7	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	2.1	1.0
Carbon tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	29	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	23	1.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

Surrogate	% Rec.	Acceptable Range
2-Chloropropane	115	65-135
1-Chloro-2-fluorobenzene	112	65-135

ND: Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical