PBC 591-0606
102.0555

GROUND-WATER MONITORING REPORT
FOR THE CALMAR FACILITY
CITY OF INDUSTRY, CALIFORNIA

December 13, 1991
LF 2455-02

LEVINE·FRICKE

LEVINE·FRICKE

December 13, 1991 LF 2455-02

Mr. Phillip Ramsey
California Regional Water Quality Control Board
101 Centre Plaza Dr.
Monterey Park, California 91754-2156

Subject: Ground-water Monitoring Report for the Calmar Facility, City of Industry, California
File No. 102.055

Dear Phil:

Enclosed is Levine•Fricke's Ground-Water Monitoring Report for the Calmar facility located at 333 Turnbull Canyon Road, City of Industry, California ("the Site"). This report discusses the results of ground-water monitoring conducted by Levine•Fricke on October 11, 1991. This set of ground-water samples are the last of the three sets requested by the California Regional Water Quality Control Board, Los Angeles Region (RWQCB).

If you have any questions or comments about the report, please call Eileen Wintemute, Principal Engineer, or me at (714) 955-1390.

Sincerely,

David E. Field, R.G.
Senior Hydrogeologist

December 13, 1991 LF 2455-02

GROUND-WATER MONITORING REPORT
CALMAR, INC.
CITY OF INDUSTRY, CALIFORNIA

INTRODUCTION

At the request of Calmar Incorporated (Calmar), Levine•Fricke performed ground-water sampling at the Calmar Site located at 333 South Turnbull Canyon Road in the City of Industry, Los Angeles County, California ("the Site"; Figure 1). This work supplements prior ground-water sampling performed by Camp, Dresser & McKee (CDM).

As part of a ground-water characterization requested by the California Regional Water Control Board, Los Angeles Region (RWQCB), Levine•Fricke performed the third of three ground-water sampling events at the Site on October 11, 1991. The prior two sampling events were performed by CDM on April 29 and May 10, 1991.

This report presents the findings of the Levine•Fricke October 11, 1991 water sampling event along with data obtained from CDM's April 29, 1991 and May 10, 1991 sampling events and BCL Associates, Inc.'s (BCL) 1988 ground-water sampling events.

GROUND-WATER CONDITIONS

To characterize the ground-water conditions beneath the Site, ground-water samples were obtained for chemical analysis, and ground-water level measurements were recorded. Ground-water sampling procedures are described in Appendix A. The chemical analysis results are shown in Figure 2, and Table 1 summarizes these results along with historical results reported by CDM and BCL.

Ground water from five monitoring wells (MW-1, MW-2, P-1, P-2, and P-3) installed previously by BCL were analyzed for volatile organics using EPA Method 624. Monitoring well MW-3 was not sampled because less than one-half foot of water was found in the well. Analyses were performed on a two-week laboratory turnaround basis by West Coast Analytical Service, Inc. of Santa Fe Springs, California. This laboratory is certified by the California Environmental Protection Agency

(CAL-EPA) for the applied test method. Laboratory sheets and Chain-of-Custody documents for the analyses are included in Appendix B.

GROUND-WATER FLOW DIRECTION AND GRADIENT

The ground-water flow direction at the Site is shown in Figure 3, and Table 2 lists the ground-water elevation data along with historical data reported by CDM and BCL. All wells were previously surveyed for vertical control relative to a United States Geologic Survey (USGS) benchmark under the direction of previous consultants. To evaluate the ground-water flow direction and gradient, the depth to ground water was measured in each well to the nearest 0.01 foot using an electric well sounder. These data, along with top of casing reference elevations reported by CDM, were used in calculating the ground-water elevation in each well. The resulting ground-water elevation data (Table 2) were used to construct a ground-water elevation contour map (Figure 3).

On October 11, 1991, shallow ground-water levels were measured in wells MW-1, MW-2, MW-3, P-1, P-2, and P-3. The depth to ground water (from the top of the well casing) ranged from approximately 41.95 to 44.24 feet. Shallow ground-water elevations ranged from 259.08 to 263.04 feet, mean sea level (MSL).

The lateral ground-water flow direction was estimated for the Site using the ground-water elevation data summarized in Table 2. Based on these data, the lateral ground-water flow direction was interpreted to be northward, with a hydraulic gradient of approximately 0.008 ft/ft (vertical/horizontal) as illustrated in Figure 3.

GROUND-WATER ANALYTICAL RESULTS

The major analytes detected in ground-water samples were trichloroethene (TCE) and tetrachloroethene (PCE). Other analytes detected included 1,1-dichloroethane (DCA), 1,1-dichloroethylene (DCE), 1,1,1-trichloroethylene (TCA), and freon-TF. Analytical results generally appeared to be consistent throughout the three sampling events conducted in 1991. Single order of magnitude concentration changes occurred in all wells except P-3 and P-1 (P-1 only sampled once), and occasional double order of magnitude concentration changes occurred in wells MW-2 and MW-3.

The highest concentrations detected during the monitoring period were in wells MW-2 (TCE at 0.14 ppm, May 1991) and MW-3 (PCE at 0.17 ppm, May 1991). DCA was not detected in well MW-1, and DCA, DCE, and TCA were not detected in well P-3 during any of the three sampling events.

TABLE 1
Laboratory Analytical Results - Water
Calmar - City of Industry
LF 2455.02

(results reported in parts per million - ppm)

Sample No.	Date Sampled	Analytical Method	Turbidity of Sample (NTU)	Benzene	Ethyl-benzene	Toluene	Total Xylenes	1,1-DCE	1,1-DCA	cis-DCE	1,2-DCA	1,1,1-TCA	TCE	PCE	Methylene Chloride	Additional or Tentatively Identified Compounds
MW1	9/1/88	601/602	NT	TR	ND	TR	TR	0 0061	ND	TR	ND	0.0065	0.023	0.02	---	
	4/29/91	601/602	NT	ND	ND	ND	ND	0.019	ND	0.0029	ND	0 0045	0.034	0.034	---	
	7/30/91	601/602	NT	ND	ND	ND	ND	0.02	ND	ND	ND	O O53	0.036	0.008	---	
	10/11/91	624	15.3	ND	ND	ND	ND	0.16	ND	0.002	ND	0 003	0.027	0 032	0 001b	FREON-TF: 0.044
MW2	9/1/88	601/602	NT	ND	ND	ND	ND	0.004	ND	0.0019	ND	0.00077	0.042	0.007	---	
	4/29/91	601/602	NT	ND	ND	ND	ND	0.052	0.0054	0.0022	ND	0 073	0.14	0.011	---	
	7/30/91	601/602	NT	ND	ND	ND	ND	0.0036	ND	ND	ND	0.013	0.013	0.0085	---	
	10/11/91	624	12.2	ND	ND	ND	ND	0.002	ND	ND	ND	ND	0.005	0.013	ND	FREON-TF: 0.015
MW3	9/1/88	601/602	NT	ND	TR	ND	ND	0.079	0.036	TR	0.00398	0.0023	0.02	0.047	---	
	4/29/91	601/602	NT	ND	ND	ND	ND	0.027	0.0028	ND	ND	0.0054	0.21	0.17	---	
	7/30/91	601/602	NT	ND	ND	ND	ND	0.0016	ND	ND	ND	0.0011	0.0065	0.03	---	

NOTES
1,1-DCE : 1,1-Dichloroethene
1,1-DCA : 1,1-Dichloroethane
cis-DCE : cis-1,2-Dichloroethene
1,2-DCA : 1,2-Dichloroethane

1,1,1-TCA: 1,1,1-Trichloroethane
NTU : Nephelometric Turbidity Units

TCE : Trichloroethene
PCE : Tetrachloroethene
TR : Trace, below detection limit (as reported by Camp Dresser & McKee Inc.)
ND : Not detected

b : The compound was in the sample and the lab blank
--- : Compound not annalyzed for
NT : Not tested

2455 02t-02 11/13/91

Numeric Review :

TABLE 1 (continued)
Laboratory Analytical Results - Water
Calmar - City of Industry
LF 2455.02

(results reported in parts per million - ppm)

Sample No.	Date Sampled	Analytical Method	Turbidity of Sample (NTU)	Benzene	Ethyl-benzene	Toluene	Total Xylenes	1,1-DCE	1,1-DCA	cis-DCE	1,2-DCA	1,1,1-TCA	TCE	PCE	Methylene Chloride	Additional or Tentatively Identified Compounds
P-1	10/11/91	624	NT	ND	ND	ND	ND	0.012	ND	ND	ND	ND	0 005	0.01	0 001b	FREON-TF 0 005
P-2	5/13/91	601/602	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0057	0.02	---	
	7/30/91	601/602	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0045	0.0092	---	
	10/11/91	624	4.25	ND	ND	ND	ND	0.004	ND	ND	ND	ND	0 007	0.014	0.001b	FREON-TF: 0.015
P-3	5/13/91	601/602	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023	0.0052	---	
	7/30/91	601/602	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0019	0.0048	---	
	10/11/91	624	4.78	ND	ND	0.002	ND	ND	ND	ND	ND	ND	0.003	0.007	0.001b	FREON-TF: 0.004, CHLOROFORM: 0.002

NOTES
1,1-DCE : 1,1-Dichloroethene
1,1-DCA : 1,1-Dichloroethane
cis-DCE : cis-1,2-Dichloroethene
1,2-DCA : 1,2-Dichloroethane

1,1,1-TCA: 1,1,1-Trichloroethane
NTU : Nephelometric Turbidity Units

TCE : Trichloroethene
PCE : Tetrachloroethene
TR : Trace, below detection limit (as reported by Camp Dresser & McKee Inc.)
ND : Not detected

b : The compound was in the sample and the lab blank
--- : Compound not annalyzed for
NT : Not tested

2455.02t-02 11/13/91

Numeric Review :

TABLE 2

Historical Ground Water Levels and Elevations

Calmar - City of Industry
LF 2455.02

Well Number	Well Elevation (feet-MSL)	March 29, 1989 Depth to Water (feet)	March 29, 1989 Water Level (MSL)	April 29, 1991 Depth to Water (feet)	April 29, 1991 Water Level (MSL)	May 10, 1991 Depth to Water (feet)	May 10, 1991 Water Level (MSL)	July 30, 1991 Depth to Water (feet)	July 30, 1991 Water Level (MSL)	October 11, 199 Depth to Water (feet)	October 11, 199 Water Level (MSL)
MW-1	303.32	35.84	267.48	42.65	260.67	42.72	260.6	43.52	259.8	44.24	259.08
MW-2	303.29	35.14	268.15	41.38	261.91	41.45	261.84	42.12	261.17	42.67	260.62
MW-3	302.67	35.01	267.66	41.67	261	41.72	260.95	42.50	260.17	43.11	259.56
P-1	301.99	34.06	267.93	40.59	261.4	40.66	261.33	41.40	260.59	41.95	260.04
P-2	303.09	35.14	267.95	42.04	261.05	40.10	262.99	42.82	260.27	43.43	259.66
P-3	305.11	36.59	268.52	40.59	264.52	40.68	264.43	41.86	263.25	42.07	263.04

NOTE: MSL = Mean Sea Level.

Numeric Review : [illegible]

11/08/91

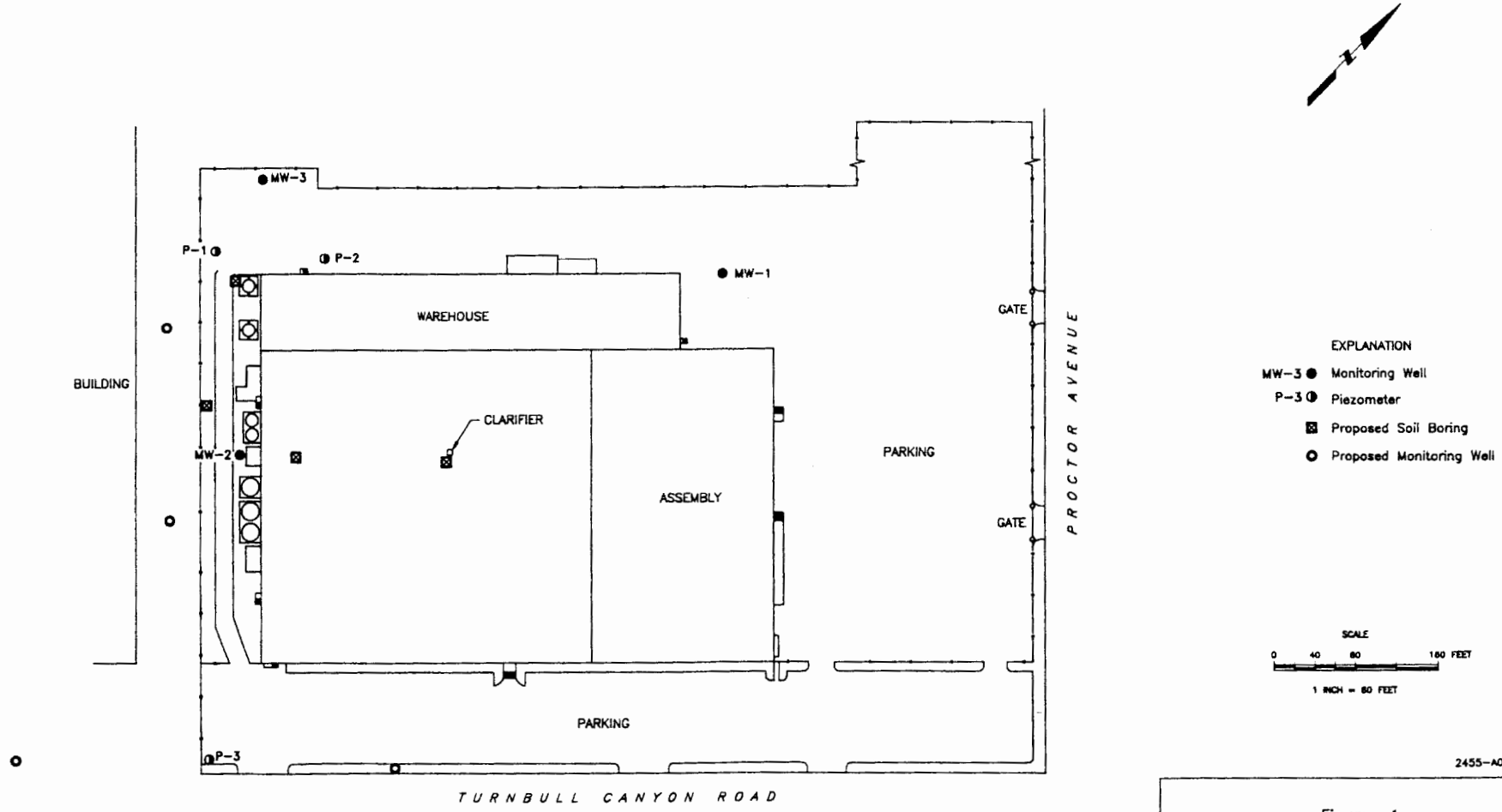
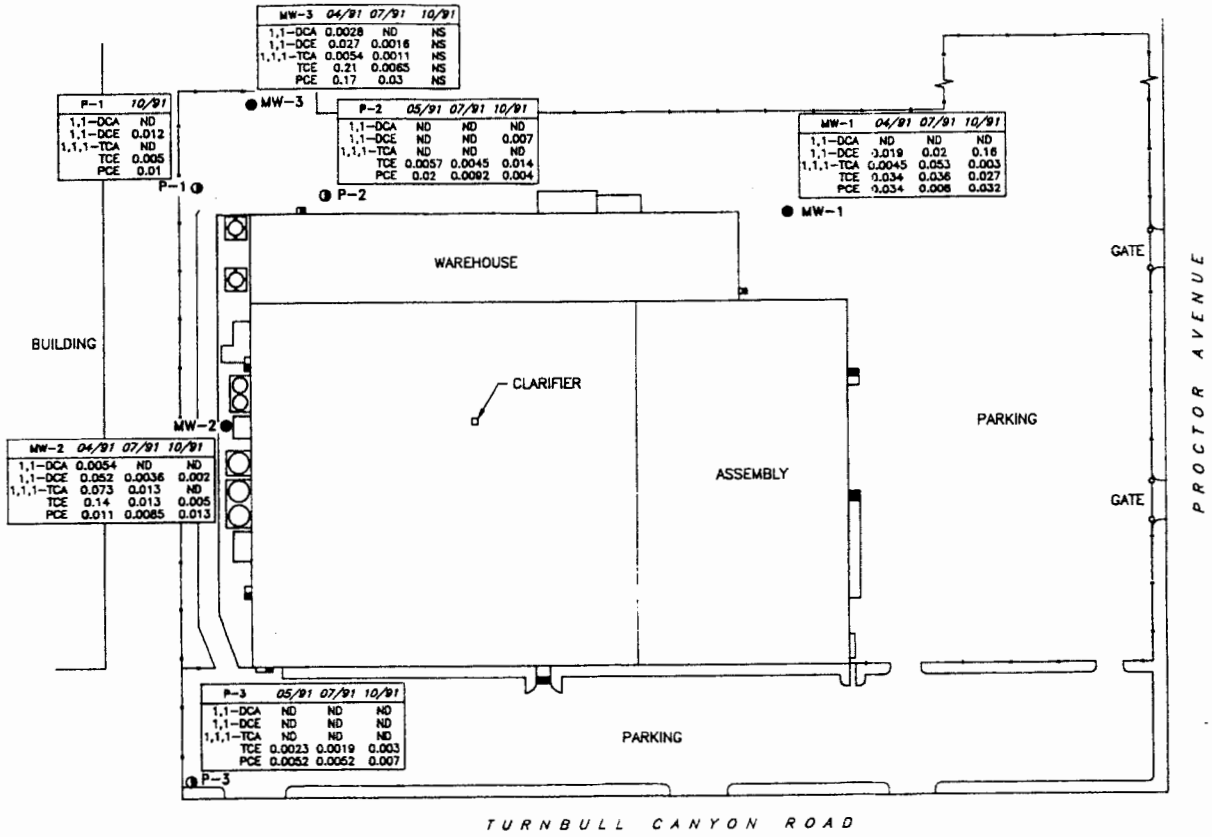


Figure 1 :

APPROXIMATE LOCATION OF PROPOSED SOIL BORINGS AND GROUND-WATER MONITORING WELLS

Project No. 2455
Calmar-City of Industry

LEVINE•FRICKE



EXPLANATION

MW-3 ● Monitoring Well

P-3 ◑ Piezometer

P-1	10/91
1,1-DCA	ND

Analytical Results: Month/Year Sampled Chemical Constituent and Concentration

1,1-DCA 1,1-Dichloroethylene
1,1-DCE 1,1-Dichloroethylene
1,1,1-TCA 1,1,1-Trichloroethylene
TCE Trichloroethylene
PCE Tertrachloroethylene
ND Not Detected
NS Not Sampled

NOTE: All values reported in parts per million (ppm).

Main Constituents	Regulatory Levels EPA	Calif.
1,1-DCA	0.005	0.005
1,1-DCE	0.007	0.006
1,1,1-TCA	0.2	0.2
TCE	0.005	0.005
PCE	0.005	0.005

SCALE

0 40 80 160 FEET

1 INCH = 80 FEET

2455-A02

Figure 2 :

SITE PLAN SHOWING CHEMICAL CONSTITUENTS

Project No. 2455
Calmar-City of Industry

LEVINE•FRICKE

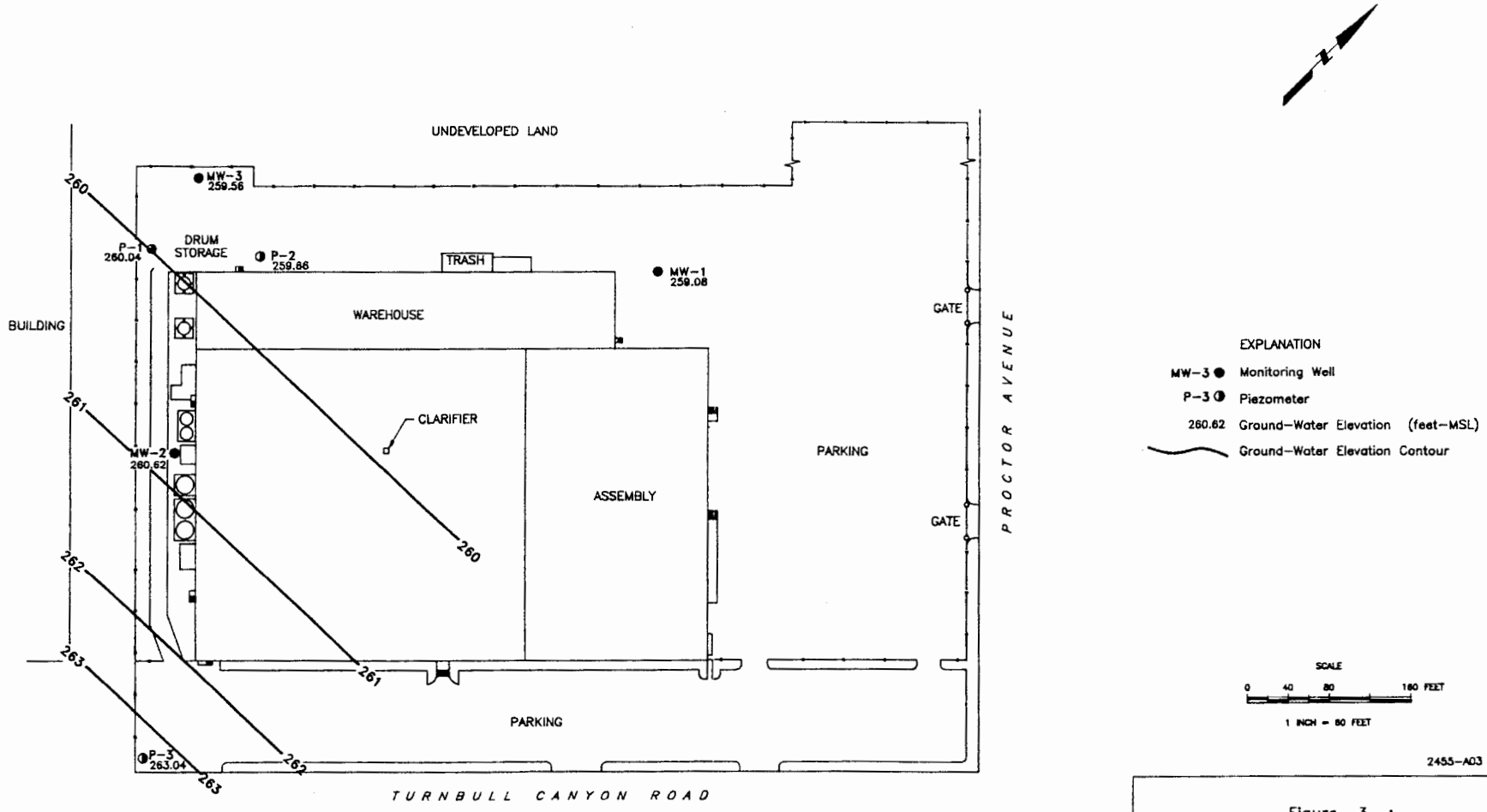


Figure 3 :

GROUND-WATER CONTOUR MAP
MEASURED OCTOBER 11, 1991

Project No. 2455
Calmar-City of Industry

LEVINE•FRICKE
CHEMISTS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

A P P E N D I X A

FIELD PROCEDURES

APPENDIX A

FIELD PROCEDURES

Measurement of Ground-Water Elevation

Under the direction of a previous consultant, the top of each well casing was surveyed by a licensed surveyor to the nearest 0.01 foot relative to mean sea level (MSL).

A Solinst water-level meter was used to measure the depth to ground water to the nearest 0.01 foot in each well. Ground-water elevations were calculated and used to construct ground-water elevation contour maps from which the direction of ground-water flow and gradient could be evaluated.

Well Development and Sampling

All equipment used to develop or sample the wells was washed with a laboratory-grade detergent, steam cleaned, and triple-rinsed in distilled water prior to use in each monitoring well.

Prior to ground-water sampling, approximately four to ten casing volumes were purged from each well. Purging was conducted using a submersible pump. The ground-water temperature, specific conductance and pH were measured throughout the purging process. These ground-water parameters were allowed to reach relative stabilization before ground-water samples were collected. This was done for the purpose of collecting ground-water samples representative of aquifer conditions. Prior to collection of ground-water samples, the turbidity of ground water in the well was measured using a turbidity meter.

Well development water and purged ground water was collected in Department of Transportation (DOT)-approved drums for storage on site.

Ground-water samples were collected from all wells using a disposable bailer suspended by a clean (new) length of rope. Ground-water samples were decanted from the bailer into laboratory-supplied 40-ml VOA vials with Teflon septa using a bottom pep-cock devise. The VOAs 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.

A P P E N D I X B

Laboratory Sheets and Chain-of-Custody Documents

2455-02

WCAS

WEST COAST ANALYTICAL SERVICE, INC.

ANALYTICAL CHEMISTS

October 17, 1991

TERRA TECH LABS
1920 E. Deere Avenue
Suite 130
Santa Ana, CA 92705

Attn: Ruth Willson

JOB NO. 19748 A

LABORATORY REPORT

Samples Received: Eight (8) Waters In Duplicate
Date Received: 10-14-91
Purchase Order No: Proj#: 2520/Calmar

The samples were analyzed as follows:

Samples Analyzed	Analysis	Results
Seven (7) waters	Volatile Organics by EPA 624	Data Sheets

RECEIVED
OCT 19
LEVINE-FRICKE

B. Michael Hovanec
Senior Staff Chemist

Michael Shelton
Technical Director

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213/948-2225 • FAX 213/948-5850

CLIENT: TERRA TECH LABS SAMPLE: MW-1
WCAS JOB #: 19748

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 10/14/91 MATRIX: WATER
DATE EXTRACTED: 10/14/91 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 10/14/91 RUN NUMBER: 19748T2
INSTRUMENT ID: TRIO1 UNITS: UG/L (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	10.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	16.	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	2.	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	44.	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	1. B	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	32.	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	3.	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	27.	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
95-47-6	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	94	96	95
CONTROL LIMITS	76-114	88-110	86-115

WCAS

CLIENT: TERRA TECH LABS SAMPLE: MW-1
WCAS JOB #: 19748

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	10/14/91	MATRIX:	WATER
DATE EXTRACTED:	10/14/91	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	10/14/91	RUN NUMBER:	19748T2
INSTRUMENT ID:	TRIO1	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: TERRA TECH LABS SAMPLE: MW-2
WCAS JOB #: 19748

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 10/14/91 MATRIX: WATER
DATE EXTRACTED: 10/14/91 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 10/14/91 RUN NUMBER: 19748T3
INSTRUMENT ID: TRI01 UNITS: UG/L (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	10.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	2.	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	15.	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	ND	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	13.	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	5.	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
95-47-6	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	94	95	96
CONTROL LIMITS	76-114	88-110	86-115

WCAS

CLIENT: TERRA TECH LABS SAMPLE: MW-2
WCAS JOB #: 19748

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	10/14/91	MATRIX:	WATER
DATE EXTRACTED:	10/14/91	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	10/14/91	RUN NUMBER:	19748T3
INSTRUMENT ID:	TRIO1	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: TERRA TECH LABS SAMPLE: P-1
WCAS JOB #: 19748

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 10/14/91 MATRIX: WATER
DATE EXTRACTED: 10/15/91 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 10/15/91 RUN NUMBER: 19748T9
INSTRUMENT ID: TRIO1 UNITS: UG/L (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	10.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	12.	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	5.	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	1. B	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	10.	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	5.	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
95-47-6	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	101	98	98
CONTROL LIMITS	76-114	88-110	86-115

CLIENT: TERRA TECH LABS SAMPLE: P-1
WCAS JOB #: 19748

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	10/14/91	MATRIX:	WATER
DATE EXTRACTED:	10/15/91	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	10/15/91	RUN NUMBER:	19748T9
INSTRUMENT ID:	TRIO1	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: TERRA TECH LABS SAMPLE: P-2
WCAS JOB #: 19748

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 10/14/91 MATRIX: WATER
DATE EXTRACTED: 10/14/91 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 10/14/91 RUN NUMBER: 19748T5
INSTRUMENT ID: TRIO1 UNITS: UG/L (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	10.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	4.	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	15.	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	1. B	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	14.	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	7.	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
95-47-6	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	101	96	96
CONTROL LIMITS	76-114	88-110	86-115

CLIENT: TERRA TECH LABS SAMPLE: P-2
WCAS JOB #: 19748

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	10/14/91	MATRIX:	WATER
DATE EXTRACTED:	10/14/91	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	10/14/91	RUN NUMBER:	19748T5
INSTRUMENT ID:	TRIO1	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: TERRA TECH LABS SAMPLE: P-3
WCAS JOB #: 19748

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 10/14/91 MATRIX: WATER
DATE EXTRACTED: 10/14/91 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 10/14/91 RUN NUMBER: 19748T6
INSTRUMENT ID: TRIO1 UNITS: UG/L (PPB)

CAS #	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		5.
71-43-2	BENZENE	ND		1.
75-27-4	BROMODICHLOROMETHANE	ND		1.
75-25-2	BROMOFORM	ND		1.
74-83-9	BROMOMETHANE	ND		5.
78-93-3	2-BUTANONE (MEK)	ND		5.
75-15-0	CARBON DISULFIDE	ND		1.
56-23-5	CARBON TETRACHLORIDE	ND		1.
108-90-7	CHLOROBENZENE	ND		1.
75-00-3	CHLOROETHANE	ND		5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND		10.
67-66-3	CHLOROFORM	2.		1.
74-87-3	CHLOROMETHANE	ND		5.
108-41-8	CHLOROTOLUENE	ND		1.
124-48-1	DIBROMOCHLOROMETHANE	ND		1.
95-50-1	1,2-DICHLOROBENZENE	ND		1.
541-73-1	1,3-DICHLOROBENZENE	ND		1.
106-46-7	1,4-DICHLOROBENZENE	ND		1.
75-34-3	1,1-DICHLOROETHANE	ND		1.
107-06-2	1,2-DICHLOROETHANE	ND		1.
75-35-4	1,1-DICHLOROETHYLENE	ND		1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND		1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		1.
78-87-5	1,2-DICHLOROPROPANE	ND		1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		1.
100-41-4	ETHYLBENZENE	ND		1.
106-93-4	ETHYLENE DIBROMIDE	ND		1.
76-13-1	FREON-TF	4.		1.
119-78-6	2-HEXANONE	ND		5.
75-09-2	METHYLENE CHLORIDE	1.	B	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		5.
100-42-5	STYRENE	ND		1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		1.
127-18-4	TETRACHLOROETHYLENE	7.		1.
109-99-9	TETRAHYDROFURAN	ND		5.
108-88-3	TOLUENE	2.		1.
71-55-6	1,1,1-TRICHLOROETHANE	ND		1.
79-00-5	1,1,2-TRICHLOROETHANE	ND		1.
79-01-6	TRICHLOROETHYLENE	3.		1.
75-69-4	TRICHLOROFLUOROMETHANE	ND		1.
108-05-4	VINYL ACETATE	ND		5.
75-01-4	VINYL CHLORIDE	ND		5.
95-47-6	TOTAL XYLENES	ND		1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	100	96	96
CONTROL LIMITS	76-114	88-110	86-115

CLIENT: TERRA TECH LABS SAMPLE: P-3
WCAS JOB #: 19748

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	10/14/91	MATRIX:	WATER
DATE EXTRACTED:	10/14/91	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	10/14/91	RUN NUMBER:	19748T6
INSTRUMENT ID:	TRIO1	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: TERRA TECH LABS SAMPLE: DUP-1
WCAS JOB #: 19748

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 10/14/91 MATRIX: WATER
DATE EXTRACTED: 10/15/91 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 10/15/91 RUN NUMBER: 19748T8
INSTRUMENT ID: TRIO1 UNITS: UG/L (PPB)

CAS #	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		5.
71-43-2	BENZENE	ND		1.
75-27-4	BROMODICHLOROMETHANE	ND		1.
75-25-2	BROMOFORM	ND		1.
74-83-9	BROMOMETHANE	ND		5.
78-93-3	2-BUTANONE (MEK)	ND		5.
75-15-0	CARBON DISULFIDE	ND		1.
56-23-5	CARBON TETRACHLORIDE	ND		1.
108-90-7	CHLOROBENZENE	ND		1.
75-00-3	CHLOROETHANE	ND		5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND		10.
67-66-3	CHLOROFORM	ND		1.
74-87-3	CHLOROMETHANE	ND		5.
108-41-8	CHLOROTOLUENE	ND		1.
124-48-1	DIBROMOCHLOROMETHANE	ND		1.
95-50-1	1,2-DICHLOROBENZENE	ND		1.
541-73-1	1,3-DICHLOROBENZENE	ND		1.
106-46-7	1,4-DICHLOROBENZENE	ND		1.
75-34-3	1,1-DICHLOROETHANE	ND		1.
107-06-2	1,2-DICHLOROETHANE	ND		1.
75-35-4	1,1-DICHLOROETHYLENE	2.		1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND		1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		1.
78-87-5	1,2-DICHLOROPROPANE	ND		1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		1.
100-41-4	ETHYLBENZENE	ND		1.
106-93-4	ETHYLENE DIBROMIDE	ND		1.
76-13-1	FREON-TF	8.		1.
119-78-6	2-HEXANONE	ND		5.
75-09-2	METHYLENE CHLORIDE	1.	B	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		5.
100-42-5	STYRENE	ND		1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		1.
127-18-4	TETRACHLOROETHYLENE	12.		1.
109-99-9	TETRAHYDROFURAN	ND		5.
108-88-3	TOLUENE	ND		1.
71-55-6	1,1,1-TRICHLOROETHANE	3.		1.
79-00-5	1,1,2-TRICHLOROETHANE	ND		1.
79-01-6	TRICHLOROETHYLENE	4.		1.
75-69-4	TRICHLOROFLUOROMETHANE	ND		1.
108-05-4	VINYL ACETATE	ND		5.
75-01-4	VINYL CHLORIDE	ND		5.
95-47-6	TOTAL XYLENES	ND		1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	103	96	98
CONTROL LIMITS	76-114	88-110	86-115

WCAS

CLIENT: TERRA TECH LABS SAMPLE: DUP-1
WCAS JOB #: 19748

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	10/14/91	MATRIX:	WATER
DATE EXTRACTED:	10/15/91	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	10/15/91	RUN NUMBER:	19748T8
INSTRUMENT ID:	TRIO1	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: TERRA TECH LABS SAMPLE: FB-1
WCAS JOB #: 19748

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 10/14/91 MATRIX: WATER
DATE EXTRACTED: 10/14/91 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 10/14/91 RUN NUMBER: 19748T1
INSTRUMENT ID: TRIO1 UNITS: UG/L (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	3.	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	10.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	2. B	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
95-47-6	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	97	95	95
CONTROL LIMITS	76-114	88-110	86-115

WCAS

CLIENT: TERRA TECH LABS SAMPLE: FB-1
WCAS JOB #: 19748

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	10/14/91	MATRIX:	WATER
DATE EXTRACTED:	10/14/91	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	10/14/91	RUN NUMBER:	19748T1
INSTRUMENT ID:	TRIO1	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: TERRA TECH LABS SAMPLE: LAB BLANK
WCAS JOB #: 19748

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 10/14/91 MATRIX: WATER
DATE EXTRACTED: 10/14/91 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 10/14/91 RUN NUMBER: VBLK957
INSTRUMENT ID: TRIO1 UNITS: UG/L (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	10.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	1.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
95-47-6	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	100	95	93
CONTROL LIMITS	76-114	88-110	86-115

CLIENT: TERRA TECH LABS SAMPLE: LAB BLANK
WCAS JOB #: 19748

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	10/14/91	MATRIX:	WATER
DATE EXTRACTED:	10/14/91	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	10/14/91	RUN NUMBER:	VBLK957
INSTRUMENT ID:	TRIO1	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	-

CLIENT: TERRA TECH LABS SAMPLE: LAB BLANK
WCAS JOB #: 19748

VOLATILE ORGANICS (EPA 624/8260)

DATE RECEIVED: 10/15/91 MATRIX: WATER
DATE EXTRACTED: 10/15/91 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 10/15/91 RUN NUMBER: VBLK958
INSTRUMENT ID: TRIO1 UNITS: UG/L (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	10.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	1.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
95-47-6	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	105	99	97
CONTROL LIMITS	76-114	88-110	86-115

CLIENT: TERRA TECH LABS SAMPLE: LAB BLANK
WCAS JOB #: 19748

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	10/15/91	MATRIX:	WATER
DATE EXTRACTED:	10/15/91	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	10/15/91	RUN NUMBER:	VBLK958
INSTRUMENT ID:	TRIO1	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

WEST COAST ANALYTICAL SERVICE

MATRIX SPIKE (MS AND MSD)
% RECOVERY AND RPD SUMMARY

CLIENT : TERRA TECH LABS
DATE ANALYZED: 10/11/91
WCAS JOB # : 19748

QC BATCH #: 101191W
MATRIX : WATER
UNITS : MG/L (PPM)

VOLATILE COMPOUNDS

COMPOUND	CONC SPIKED	CONC SAMPLE	CONC MS	%REC MS	CONC MSD	%REC MSD	RPD
1,1-DICHLOROETHYLENE	50.	1.ND	44.	88	44.	88	0
BENZENE	50.	1.ND	52.	104	52.	104	0
TRICHLOROETHYLENE	50.	1.ND	50.	100	52.	104	-4
TOLUENE	50.	190.	244.	108	247.	114	-1
CHLOROBENZENE	50.	1.ND	51.	102	51.	102	0

** - Outside Control Limits
* - Outside Warning Limits
RPD=(MS-MSD)/((MS+MSD)/2)*100

RPD: 0 Out of 5 RECOVERY: 0 Out of 10 Outside CONTROL limits

RPD: 0 Out of 5 RECOVERY: 0 Out of 10 Outside WARNING limits

WATER QUALITY CONTROL LIMITS

	RECOVERY		RPD	
	WARNING	CONTROL	WARNING	CONTROL
1,1-DICHLOROETHYLENE	51-155	25-182	18	27
BENZENE	73-125	60-138	14	19
TRICHLOROETHYLENE	59-120	44-135	13	19
TOLUENE	80-116	71-125	13	19
CHLOROBENZENE	82-109	75-115	10	15

Data Reporting Qualifiers

Value - If the result is a value greater than or equal to the Detection Limit (DL), the value is reported.

ND - Indicates that the compound was analyzed for but not detected. The minimum DL for the sample with the ND is reported based on necessary concentration or dilution actions.

B - Indicates that the compound was found in the sample and the blank, and the value is reported without blank subtraction.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

(1002) 520

Project No.: 2455.02	Field Logbook No.:	Date: 10-14-91	Serial No.: № N- 1101
Project Name: Calmar Inc.	Project Location: Industry, CA		
Sampler (Signature): Scott Martin			Samplers: SEM, TWT

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624					HOLD	RUSH	REMARKS
MW-1	10/11/91	9:10	TU5354	2			X							
MW-2	↓	11:30	TU5355	2			X							Contact Dave Field
~~MW-3~~				~~2~~										at (714) 955-1390 with
P-1		4:15	TU5356	2			X							any Questions or Results.
P-2		10:10	TU5357	2			X							
P-3	↓	2:05	TU5358	2			X							
Dup-1	↓	see log book	TU5359	2			X							
Fb-1	↓		TU5360	2			X							
Trip blank	10/10/91	2:00	TU5361	2			X					X		⇐ contact Dave Field before
														running analysis on Trip blank

RELINQUISHED BY: (Signature) Scott Martin	DATE 10-14-91	TIME 10:30a	RECEIVED BY: (Signature) Ruth Wilson	DATE 10-14-91	TIME 10:30
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:		

Sampler: LEVINE/FRICKE
1920 Main St., Ste. 750
Irvine, CA 92714

~~LEVINE-FRICKE~~
~~4019 Westerly Place, Suite 103~~
~~Newport Beach, California 92660~~
~~(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