LOCKHEED MARTIN

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APRIL 1996
WATER QUALITY REPORT
BEAUMONT SITE No. 1
BEAUMONT, CA

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WATER QUALITY REPORT
BEAUMONT TEST SITE FACILITY NO. 1
APRIL 1996

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1.0 INTRODUCTION

This report presents the analytical results from the April 1996 groundwater sampling event at the former Lockheed Martin Corporation (LMC) facility located near Beaumont, California, hereinafter referred to as Beaumont Site No. 1 (Figure 1).

1.1 Purpose and Scope

The purpose of this report is to present field, laboratory, and quality control data obtained during purging and sampling of monitoring wells during the April 1996 event. Water level elevation measurements in the study area are conducted on a quarterly basis and are reported semiannually in a separate report.

Groundwater samples were collected from monitor wells during the April 1996 sampling event as part of the ongoing groundwater monitoring program. Table 1 lists construction data on the sampled groundwater monitoring wells including well depth, screened interval, and the water bearing zone in which each well is completed. The sampling and analysis schedule followed during this semiannual sampling event is presented in Table 2.

The field data collected is presented in Appendix A. Groundwater samples were sent to the BC Analytical (BCA) laboratory and analyzed for VOCs by U.S. Environmental Protection Agency (EPA) Method 8010; this data is presented in Table 3. For external quality assurance/quality control (QA/QC), three blind duplicate samples were analyzed by the aforementioned method and are also presented in Table 3. Laboratory data and completed chain-of-custody records for groundwater samples taken during this sampling event are included in Appendix B.

Graphs displaying chemical concentration of trichloroethylene (TCE), tetrachloroethylene (PCE), 1,1,1-Trichloroethane (1,1,1-TCA), 1,1-Dichlorethylene (1,1-DCE), and 1,2-Dichloroethane (1,2-DCA) which have been prepared for each well are presented in Appendix C. The standard sample collection and handling procedures for groundwater sampling, field water quality measurements, and

water level measurements are included in Appendix D.

2.0 BACKGROUND

2.1 Project Area Location

The project area is located south of the town of Beaumont, California, about 70 miles east of Los Angeles (Figure 1). The site covers 9,100 acres in the San Jacinto Nuevo y Potrero Valley, which is drained primarily by Potrero Creek. The site lies immediately north of the Colorado River Aqueduct Tunnel, which has influenced local groundwater conditions since its construction in the 1930s (Radian 1990, 1992b).

2.2 Project Area History

For detailed project area history, see previous Water Quality Report, Beaumont Test Site Facility No. 1, May 1995.

2.3 Groundwater Sampling History

For detailed groundwater sampling history, see previous Water Quality Report, Beaumont Test Site Facility No. 1, May 1995.

3.0 GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

The geology and hydrogeology of the site have been described in detail in reports by Radian (1990, 1992b).

4.0 FIELD WORK AND LABORATORY METHODS

4.1 Field Work

In April 1996, semiannual groundwater sampling was performed by LMC and Lockheed Environmental System and Technologies (LESAT) personnel during the period from April 22 to 28, 1996. Sampling activities were conducted following the Lockheed Martin Beaumont No. 1 Operations and Maintenance Health and Safety Plan, and the LMC Standard Operating Procedures (SOP).

Groundwater sampling activities performed during the groundwater sampling included monitoring water quality parameters while purging multiple well casing volumes to obtain representative groundwater samples. Following parameter stabilization or after the purged wells had recharged to within 80 percent of their initial level, representative groundwater samples were collected for laboratory analysis from the monitoring wells. The locations of the groundwater monitoring wells sampled during this event are shown in Figure 2. Groundwater samples were collected, handled, transported, and documented in accordance with the attached SOP (Appendix D). All samples were preserved as required by the specific analytical method, packed in ice, and submitted with chain-of-custody records to the BCA laboratory in Glendale, California, for analysis. Equipment blanks were taken for the first few days and periodically thereafter.

4.2 Laboratory Methods

Lockheed Analytical Services (California State Certification No. 1411) analyzed the groundwater samples obtained in April 1996, following Method 8010 as documented by the United States Environmental Protection Agency (EPA, 1982, 1983).

Groundwater samples collected from specific wells were analyzed for VOCs according to EPA Method 8010. Three selected blind duplicate samples were also analyzed by EPA Method 8010. Chain-of-custody records and laboratory data sheets are included in Appendix C.

5.0 LABORATORY RESULTS

Analytical results for the groundwater samples collected during April 1996 are summarized in Table 3. Concentrations contour of the analytes of interest are plotted on Figures 3 through 6. In addition, water quality graphs of TCE, PCE, 1,1,1-TCA, 1,1-DCE, and 1,2-DCA, are plotted by well for all cumulative data of record, and are presented in Appendix C.

Groundwater samples were collected from three monitoring wells (MW-26, MW-59B, and MW-61B) and five extraction wells (EW-12, EW-13, EW-15 through EW-18) screened in the Mt. Eden formation in the burn pit area. Results from most monitoring well sample results appeared to be the same as the previous sampling event (December 1995). However, the results from the extraction wells appeared to be decreased from the previous sampling round (December 1994). The highest concentrations of 1,1,1-TCA, 1,1-DCE, 1,2-DCA , and TCE at 92 ppb, 4,300 ppb, 60 ppb, and 790 ppb, respectively, were detected in monitoring well MW-61B that is located at the center of burn pit area. The highest concentrations of 1,1,1-TCE, 1,1-DCE, 1,2-DCA, and TCE at 150 ppb, 6,800 ppb, 44 ppb, 1200 ppb, respectively, were detected in extraction well EW-18.

Groundwater samples were collected from eleven wells (MW-19, MW-41, MW-49, MW-50, MW-51, MW-52, MW-56A, MW-56C, MW-57A, MW-58D and MW-62) screened in the Quaternary Alluvium and one well (MW-56A) screened in the Mt. Eden formation in the motor production area. Results from most wells sampled indicate decreases in concentration from the previous sampling round. The concentrations of 1,1,1-TCA ranging from 0.64 ppb to 13.0 ppb detected in MW-50 and MW-51. The concentrations of 1,1-DCE ranging from 0.71 ppb to 120 ppb were detected in MW-56A and MW-62, respectively. The concentrations of TCE ranging from non detectable to 100 ppb were detected in MW-49 and MW-62. The concentrations of 1,2-DCA ranging from 1.4 to 64 ppb were only detected in wells MW-52, MW-56C and MW-57A. The samples collected from the Mt. Eden formation (MW-56A) were reported to be non-detect.

Samples were also collected from two extraction wells (EW-1 and EW-2) in the motor production

area. The extraction wells sample results appeared to be lower than the previous sampling event (December 1994). The concentrations of 1,1-DCE and TCE ranging from 74 to 140 ppb and 69 to 130 ppb respectively, were detected in both wells.

Monitoring wells, MW-4, MW-7, and MW-55 were sampled to determine the continuity of the contamination between the burn pit and motor production area. Results from these wells appeared to be the same as the previous sampling event (December 1995). The highest concentration of 1,1,1-TCA at 19 ppb, 1,1-DCE at 130 ppb, 1,2-DCA at 3.9 ppb, and TCE at 95 were detected in MW-55. MW-7 was reported to be non-detect.

Five upgradient wells (MW-4, MW-10, MW-11, MW-36, and MW-66) from the burn pit and motor production areas were sampled to delineate the eastern boundary of contamination. Results from these wells appeared to be the same as the previous sampling round (December 1995). Three of the wells were reported to be non-detect. 1,1-DCE concentrations ranged from 130 to 220 ppb and TCE concentrations ranging from 130 ppb to 160 ppb were detected in wells MW-4 and MW-66, respectively. This data indicates that the contaminant plume may end near MW-10, MW-11, and MW-36 and that the concentration of contaminants detected in MW-4 and MW-66 may be isolated occurrences.

Three downgradient wells (MW-17, MW-19, and MW-45) from motor production areas were sampled to delineate the southwest boundary of contamination. Results from these wells appeared to be slightly lower then the previous sampling round (December 1995). 1,1,1-TCA concentrations ranged from 3.4 to 8.9 ppb, 1,1-DCE concentrations ranged from 18 to 31 ppb, and TCE concentrations ranging from nondetectable to 13 ppb were detected in all these wells.

Two deep wells (MW-56A and MW-26A) located within the lateral limit of the burn pit and motor production areas were sampled to estimate the vertical distribution of contamination. Well MW-56A was non-detect. However, concentrations of 1,1-DCE at 3,900 and TCE at 2,500 ppb that are higher than the previous sampling event were detected in MW-26. This data indicated that there are no deep

contaminations in the Mt. Eden Formation. Data from other wells located within the contaminant plume indicate that the concentration decreases with depth.

6.0 SUMMARY AND CONCLUSIONS.

Based on the results of this and previous investigations, the following conclusions can be made:

- TCE and 1,1-DCE are present above the Maximum Concentration Level (MCL) in 25 out of 33 wells. 1,1-DCE, 1,2-DCA, and TCE are present in excess of the MCL in all monitoring and extraction wells in the burn pit area. 1,1-DCE and TCE are present in excess of MCL in nine out of eleven wells in the motor production area. 1,1,1-TCA and PCE are below the MCL in both burn pit and motor production area wells.

- The upgradient wells from the burn pit area are reported to be non-detect, but relatively low concentrations of VOCs were detected in two wells. Based on the above information, the contaminant plume most likely ends near MW-1, MW-11, and MW-36 and may be locally isolated in MW-4 and MW-66.

- Three downgradient wells from the burn pit area were sampled. Only 1,1-DCE and TCE in excess of MCL are in two wells.

- Two deep wells were sampled to determine the vertical distribution of contamination. The data indicated that the concentration decreases with depth.

7.0 REFERENCES

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Lockheed Environmental System & Technologies Company (LESAT), 1995. Water Level and Water Quality Report, Beaumont Test Facility No. 1, Beaumont, Ca. Dec. 1994.

U.S. EPA, 1982. Handbook for Sampling and Sample Preservation of Water and Wastewater. Cincinnati. Ohio: Environmental Monitoring and Support Laboratory. EPA-600/4-82-029; September 1982.

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TABLE 1
SAMPLE WELL CONSTRUCTION DATA
LOCKHEED MARTIN BEAUMONT NO. 1

Well	Date Drilled	Surface Elev.	Measuring Point Elev.	Total Depth	Top of Screen	Bottom of Screen	Formation Screened	Depth to Mt. Eden
EW-01	09/22/92	2140.0	2142.6	78.00	35.00	76.00	QA	
EW-02	10/22/92	2125.7	2125.1	70.00	25.00	66.00	QA	
EW-12	11/27/90	2179.2	2180.1	110.00	80.00	100.00	ME	61.00
EW-13	09/17/92	2179.7	2179.9	117.00	74.00	114.00	ME	41.00
EW-15	09/25/92	2180.9	2181.3	107.00	65.00	105.00	ME	50.00
EW-16	09/28/92	2181.7	2182.3	107.00	65.00	105.00	ME	48.00
EW-17	10/12/92	2176.8	2176.8	115.00	60.00	111.00	ME	58.00
EW-18	02/03/93	2184.4	2182.3	102.00	60.00	101.00	ME	49.00
MW-04	12/09/92	2156.7	2157.4	85.00	62.00	82.00	QA	
MW-06	12/10/89	2117.7	2119.1	119.00	104.00	114.00	QA/ME	112.62
MW-07	12/14/89	2172.6	2173.8	93.00	70.00	90.00	QA	
MW-10	12/06/89	2176.1	2176.7	100.00	79.00	99.00	QA	
MW-11	12/01/89	2118.6	2119.9	70.00	46.00	66.00	QA	
MW-17	12/11/89	2136.2	2137.7	65.00	44.00	64.00	QA	
MW-19	12/13/89	2114.7	2115.8	50.00	25.00	45.00	QA	
MW-26	01/30/91	2180.1	2179.9	129.00	88.00	128.00	ME	54.00
MW-36	03/14/91	2200.8	2202.5	105.00	85.00	105.00	QA	

TABLE 1 (continued)
SAMPLE WELL CONSTRUCTION DATA
LOCKHEED MARTIN BEAUMONT NO. 1

Well	Date Drilled	Surface Elev.	Measuring Point Elev.	Total Depth	Top of Screen	Bottom of Screen	Formation Screened	Depth to Mt. Eden
MW-41	12/10/91	2129.7	2131.3	55.00	35.00	55.00	QA/ME	49.50
MW-45	12/10/91	2063.3	2068.9	55.00	42.70	52.70	QA	
MW-49	12/20/91	2127.2	2128.2	113.50	30.50	52.00	QA	110.50
MW-50	12/19/91	2148.1	2148.8	74.30	54.30	74.30	QA	
MW-51	08/14/92	2134.6	2135.7	67.00	39.00	59.00	QA	
MW-52	08/17/92	2132.0	2133.5	65.00	37.00	57.00	QA	
MW-55	08/19/92	2162.4	2163.5	93.00	67.00	87.00	QA	
MW-56A	08/23/92	2139.4	2140.4	183.00	176.00	180.00	ME	100.00
MW-56C	08/31/92	2139.2	2140.1	63.80	48.00	58.00	QA	
MW-57A	0908/92	2142.7	2143.3	75.00	59.00	69.00	QA	
MW-58D	09/15/92	2137.5	2138.3	70.00	68.00	70.00	QA	
MW-59B	09/04/92	2175.5	2177.2	110.00	97.00	107.00	ME	49.00
MW-61B	09/02/92	2181.2	2183.6	105.00	92.00	102.00	ME	50.00
MW-62A	10/20/92	2127.9	2128.8	45.00	39.00	41.00	QA	
MW-66	02/10/93	2126.5	2127.9	50.00	37.00	48.00	QA	
OW-03	05/26/83	2139.4	2141.0	70.00	46.00	56.00	QA	

QA = Quaternary Alluvium ME = Mt. Eden Fm.

TABLE 2
SAMPLING AND ANALYSIS SCHEDULE
APRIL 1996
LOCKHEED MARTIN BEAUMONT NO. 1

Well	Date Sampled	Analyses			QA/QC				DVP
		EPA 8260	EPA 8010	EPA 8020	FB	EB	DUP	MS MSD	
EW-01	4/22/96		X						
EW-02	4/26/96		X						
EW-12	4/24/96		X		X	X	X	X	
EW-13	4/23/96		X						
EW-15	4/23/96		X						
EW-16	4/23/96		X		X				
EW-17	4/26/96		X						
EW-18	4/23/96		X						
MW-04	4/26/96		X		X				
MW-06	4/27/96		X						
MW-07	4/25/96		X						
MW-10	4/25/96		X		X				
MW-11	4/26/96		X						
MW-16*	4/24/96		X						
MW-17	4/28/96		X						
MW-19	4/28/96		X						

TABLE 2 (continued)
SAMPLING AND ANALYSIS SCHEDULE
APRIL 1996
LOCKHEED MARTIN BEAUMONT NO. 1

Well	Date Sampled	Analyses			QA/QC				DVP
		EPA 8260	EPA 8010	EPA 8020	FB	EB	DUP	MS MSD	
MW-26	4/24/96		X						
MW-33*	4/27/96		X						
MW-36	4/24/96		X						
MW-41	4/27/96		X		X	X	X	X	
MW-45	4/26/96		X						
MW-49	4/28/96		X						
MW-50	4/27/96		X						
MW-51	4/28/96		X						
MW-52	4/28/96		X						
MW-55	4/25/96		X						
MW-56A	4/28/96		X						
MW-56C	4/28/96		X						
MW-57A	4/28/96		X						
MW-58D	4/28/96		X		X	X	X	X	
MW-59B	4/25/96		X						
MW-61B	4/24/96		X						

TABLE 2 (continued)
SAMPLING AND ANALYSIS SCHEDULE
APRIL 1996
LOCKHEED MARTIN BEAUMONT NO. 1

Well	Date Sampled	Analyses			QA/QC				
		EPA 8260	EPA 8010	EPA 8020	FB	EB	DUP	MS MSD	DVP
MW-62A	4/27/96		X						
MW-66	4/26/96		X						
MW-67*	4/28/96		X						
OW-03	4/27/96		X						

Samples are disguised duplicates of QC wells EW-12, MW-41, and MW-58D.

TABLE - 3
Laboratory Results of Groundwater Samples
April 1996
Lockheed Martin Beaumont No. 1

Analyte (parts per billion)	EPA Method 8010										
	Well Number										RDL[1]
	MW-04 QA[2]	MW-04 FB[3]	MW-06 QA	MW-07 QA	MW-10 QA	MW-10 FB	MW-11 QA	MW-17 QA	MW-19 QA	MW-26 ME[4]	
Chloromethane	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	2.0
Vinyle Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	0.5
Bromomethane	<5.0	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<50.0	5.0
Chloroethane	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<50.0	2.0
Trichlorofluoromethane	<5.0	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<5.0	<50.0	5.0
1,1-Dichloroethylene	130.0	<0.5	3.1	0.70	1.5	<0.5	<0.5	18.0	18.0	3900.0	1.0
Methylene Chloride	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<200.0	2.0
trann-1,2-Dichloroethene	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	1.0
1,1-Dichloroethane	2.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	73.0	1.0
Chloroform	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	1.0
1,1,1-Trichloroethane	9.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.9	3.4	170.0	1.0
Carbon Tetrachloride	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	0.5
1,2-Dichloroethane	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	140.0	0.5
Trichloroethene (TCE)	130	<0.5	3.3	0.90	1.5	<0.5	<0.5	13	7.1	2500.0	0.5
1,2-Dichloropropane	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	1.0

Analyte (parts per billion)	EPA Method 8010										
	Well Number										RDL
	MW-04 QA	MW-04 FB	MW-06 QA	MW-07 QA	MW-10 QA	MW-10 FB	MW-11 QA	MW-17 QA	MW-19 QA	MW-26 ME	
Bromodichloromethane	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	1.0
cis-1,3-Dichloropropene	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	0.5
trans-1,3-Dichloropropene	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	0.5
1,1,2-Trichloroethane	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	0.5
Tetrachloroethene (PCE)	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	0.5
Dibromochloromethane	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	1.0
Chlorobenzene	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	2.0
Bromoform	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	2.0
1,1,2,2-Tetrachloroethane	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	1.0
1,3-Dichlorobenzene	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	2.0
1,4-Dcichlorobenzene	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	2.0
1,2-Dichlorobenzene	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	3.0
cis-1,2-Dichloroethene	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50.0	1.0

1.RDL = Reportable Detection Limit
2.QA = Quarternary Alluvium
3.FB = Field Blank
4.ME = Mount Eden

TABLE - 3 (continued)
Laboratory Results of Groundwater Samples
April 1996
Lockheed Martin Beaumont No. 1

Analyte (parts per billion)	EPA Method 8010										RDL[1]
	Well Number										
	MW-36 QA[2]	MW-16 BD[3]	MW-41 ME[4]	MW-41 FD[5]	MW-33 BD	MW-49 QA	MW-50 QA	MW-51 QA	MW- 52 QA	MW-55 QA	
Chloromethane	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	2.0
Vinyle Chloride	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	0.5
Bromomethane	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	5.0
Chloroethane	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	2.0
Trichlorofluoromethane	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	5.0
1,1-Dichloroethylene	0.53	3,100.0	110	110	99.0	8.9	2.3	46.0	64.0	130.0	1.0
Methylene Chloride	<0.5	<200	<5.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<4.0	2.0
trann-1,2-Dichloroethene	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	1.0
1,1-Dichloroethane	<0.5	<50.0	<2.0	<0.5	1.5	<0.5	<0.5	0.92	1.0	3.4	1.0
Chloroform	<0.5	<50.0	2.8	3.4	4.6	<0.5	<0.5	1.4	<0.5	<1.0	1.0
1,1,1-Trichloroethane	<0.5	140.0	4.8	5.4	<1.0	2.0	0.64	13.0	6.5	19.0	1.0
Carbon Tetrachloride	<0.5	<50.0	<2.0	1.2	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	0.5
1,2-Dichloroethane	<0.5	78.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	64.0	3.9	0.5
Trichloroethene (TCE)	1.1	750.0	110.0	110.0	90.0	<0.5	3.4	43.0	59.0	95.0	0.5
1,2-Dichloropropane	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	1.0
Bromodichloromethane	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	1.0

Analyte (parts per billion)	EPA Method 8010										RDL
	Well Number										
	MW-36 QA	MW-16 BD	MW-41 ME	MW-41 FD	MW-33 BD	MW-49 QA	MW-50 QA	MW-51 QA	MW-52 QA	MW-55 QA	
cis-1,3-Dichloropropene	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	0.5
trans-1,3-Dichloropropene	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	0.5
1,1,2-Trichloroethane	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	0.5
Tetrachloroethene (PCE)	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	0.5
Dibromochloromethane	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	1.0
Chlorobenzene	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	2.0
Bromoform	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	2.0
1,1,2,2-Tetrachloroethane	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	1.0
1,3-Dichlorobenzene	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	2.0
1,4-Dichlorobenzene	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	2.0
1,2-Dichlorobenzene	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	3.0
cis-1,2-Dichloroethene	<0.5	<50.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	1.0

1.RDL = Reportable Detection Limit

2.QA = Quaternary Alluvium

3.BD = Blind Duplicate from EW-12 & MW- 41

4.ME = Mt. Eden

5.FD = Field Duplicate

TABLE - 3 (continued)
Laboratory Results of Groundwater Samples
April 1996
Lockheed Martin Beaumont No. 1

Analyte (parts per billion)	EPA Method 8010									RDL[1]
	Well Number									
	MW-56A ME[2]	MW-56C QA[3]	MW-57A QA	MW-58D QA	MW-58D FD[4]	MW-58D FB[5]	MW-58D EB[6]	MW- 59B ME	MW-61B ME	
Chloromethane	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	2.0
Vinyle Chloride	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	0.5
Bromomethane	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	5.0
Chloroethane	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	2.0
Trichlorofluoromethane	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	5.0
1,1-Dichloroethylene	0.71	79.0	65.0	76.0	89.0	<0.5	<0.5	400.0	4300.0	1.0
Methylene Chloride	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<20.0	<200.0	2.0
trann-1,2-Dichlorochtene	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	1.0
1,1-Dichloroethane	<0.5	2.0	1.5	1.3	1.9	<0.5	<0.5	12.0	<50.0	1.0
Chloroform	<0.5	0.61	<0.5	<1.0	1.4	<0.5	<0.5	<5.0	<50.0	1.0
1,1,1-Trichloroethane	<0.5	9.8	9.3	7.1	8.7	<0.5	<0.5	13.0	92.0	1.0
Carbon Tetrachloride	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	0.5
1,2-Dichloroethane	<0.5	1.5	1.4	<1.0	1.2	<0.5	<0.5	21.0	60.0	0.5
Trichloroethene (TCE)	1.4	71.0	57.0	71.0	82.0	<0.5	<0.5	300.0	790.0	0.5
1,2-Dichloropropane	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	1.0
Bromodichloromethane	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	1.0

Analyte (parts per billion)	EPA Method 8010									RDL
	Well Number									
	MW-56A ME	MW-56C QA	MW-57A QA	MW-58D QA	MW-58D FD	MW-58 FB	MW-58 EB	MW-59B ME	MW-61B ME	
cis-1,3-Dichloropropene	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	0.5
trans-1,3-Dichloropropene	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	0.5
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	0.5
Tetrachloroethene (PCE)	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	0.5
Dibromochloromethane	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	1.0
Chlorobenzene	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	2.0
Bromoform	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	2.0
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	1.0
1,3-Dichlorobenzene	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	2.0
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	2.0
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	3.0
cis-1,2-Dichloroethene	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.0	<50.0	1.0

1.RDL = Reportable Detection Limit

2.ME = Mt. Edne

3.QA = Quaternary Alluvium

4.FD = Field Duplicate

5.FB = Field Blank

6.EB = Equipment Blank

TABLE - 3 (continued)
Laboratory Results of Groundwater Samples
April 1996
Lockheed Martin Beaumont No. 1

Analyte (parts per billion)	EPA Method 8010										
	Well Number										RDL[1]
	MW-62A QA[2]	MW-66 QA	MW-45 QA	MW-67 BD[3]	EW-01 QA	EW-02 QA	EW-12 ME[4]	EW-12 FD[5]	EW-12 EB[6]	EW-12 FB[7]	
Chloromethane	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	2.0
Vinyle Chloride	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	0.5
Bromomethane	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	5.0
Chloroethane	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	2.0
Trichlorofluoromethane	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	5.0
1,1-Dichloroethylene	120.0	220.0	31.0	99.0	74.0	140.0	3400.0	3100.0	15.0	<0.5	1.0
Methylene Chloride	<4.0	<10.0	<2.0	<1.0	<2.0	<4.0	<200.0	<200.0	<2.0	<2.0	2.0
trann-1,2-Dichloroehtene	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	1.0
1,1-Dichloroethane	1.8	<3.0	1.3	<1.0	1.6	2.7	<50.0	<50.0	<0.5	<0.5	1.0
Chloroform	3.6	7.4	<0.5	<1.0	0.68	3.8	<50.0	<50.0	<0.5	<0.5	1.0
1,1,1-Trichloroethane	9.6	9.5	5.3	4.0	7.3	10.0	150.0	140.0	<0.5	<0.5	1.0
Carbon Tetrachloride	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	0.5
1,2-Dichloroethane	<1.0	<3.0	<0.5	<1.0	1.4	<1.0	68.0	75.0	<0.5	<0.5	0.5
Trichloroethene (TCE)	100.0	160	<0.5	90.0	69.0	130.0	790	730.0	6.7	<0.5	0.5
1,2-Dichloropropane	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	1.0
Bromodichloromethane	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	1.0

Analyte (parts per billion)	EPA Method 8010										
	Well Number										RDL
	MW-62A QA	MW-66 QA	MW-45 QA	MW-67 BD	EW-01 QA	EW-02 QA	EW-12 ME	EW-12 FD	EW-12 EB	EW-12 FB	
cis-1,3-Dichloropropene	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	0.5
trans-1,3-Dichloropropene	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	0.5
1,1,2-Trichloroethane	<1.0	<3.0	<0.5	<1.0	<0.5	2.7	<50.0	<50.0	<0.5	<0.5	0.5
Tetrachloroethene (PCE)	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	0.5
Dibromochloromethane	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	1.0
Chlorobenzene	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	2.0
Bromoform	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	2.0
1,1,2,2-Tetrachloroethane	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	1.0
1,3-Dichlorobenzene	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	2.0
1,4-Dcichlorobenzene	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	2.0
1,2-Dichlorobenzene	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	3.0
cis-1,2-Dichloroethene	<1.0	<3.0	<0.5	<1.0	<0.5	<1.0	<50.0	<50.0	<0.5	<0.5	1.0

1.RDL = Reportble Detection Limit

2.QA = Quaternary Alluvium

3.BD = Blind Duplicate from MW-58D

4.ME = Mt. Edne

5.FD = Field Duplicate

6.EB = Equipment Blank

7.FB = Field Blank

TABLE - 3 (continued)
Laboratory Results of Groundwater Samples
APRIL 1996
Lockheed Martin Beaumont No. 1

Analyte (parts per billion)	EPA Method 8010											RDL[1]
	Well Number											
	EW-13 ME[2]	EW-15 ME	EW-16 ME	EW-16 FB[3]	EW-17 ME	EW-18 ME	OW-03 QA[4]	MW-41 FB	MW-41 EB[5]	Trip Bl. 042296	Trip Bl. 042596	
Chloromethane	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	2.0
Vinyle Chloride	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Bromomethane	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	5.0
Chloroethane	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	2.0
Trichlorofluoromethane	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	5.0
1,1-Dichloroethylene	2200.0	1000.0	1600.0	<0.5	690.0	6800.0	23.0	<0.5	<0.5	<0.5	<0.5	1.0
Methylene Chloride	<100.0	<40.0	<100.0	<2.0	<20.0	<200.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0
trann-1,2-Dichloroehtene	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.0
1,1-Dichloroethane	<30.0	26.0	<30.0	<0.5	13.0	26.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.0
Chloroform	<30.0	11.0	<30.0	<0.5	<5.0	55.0	1.1	<0.5	<0.5	<0.5	<0.5	1.0
1,1,1-Trichloroethane	95.0	36.0	41.0	<0.5	28.0	36.0	3.4	<0.5	<0.5	<0.5	<0.5	1.0
Carbon Tetrachloride	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
1,2-Dichloroethane	73.0	44.0	<30.0	<0.5	26.0	44.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Trichloroethene (TCE)	760.0	310.0	1000.0	<0.5	360.0	1200.0	34.0	<0.5	<0.5	<0.5	<0.5	0.5
1,2-Dichloropropane	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.0
Bromodichloromethane	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.0

Analyte (parts per billion)	EPA Method 8010											RDL
	Well Number											
	EW-13 ME	EW-15 ME	EW-16 ME	EW-16 FB	EW-17 ME	EW-18 ME	OW-03 QA	MW-41 FB	MW-41 EB	Trip Bl. 042296	Trip Bl. 042596	
cis-1,3-Dichloropropene	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
trans-1,3-Dichloropropene	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
1,1,2-Trichloroethane	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Tetrachloroethene (PCE)	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Dibromochloromethane	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.0
Chlorobenzene	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	2.0
Bromoform	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	2.0
1,1,2,2-Tetrachloroethane	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.0
1,3-Dichlorobenzene	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	2.0
1,4-Dichlorobenzene	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	2.0
1,2-Dichlorobenzene	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
cis-1,2-Dichloroethene	<30.0	<10.0	<30.0	<0.5	<5.0	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.0

1.RDL = Reportable Detection Limit

2.ME = Mt. Eden

3.FB = Field Blank

4.QA = Quaternary Alluvium

5.EB = Equipment Blank

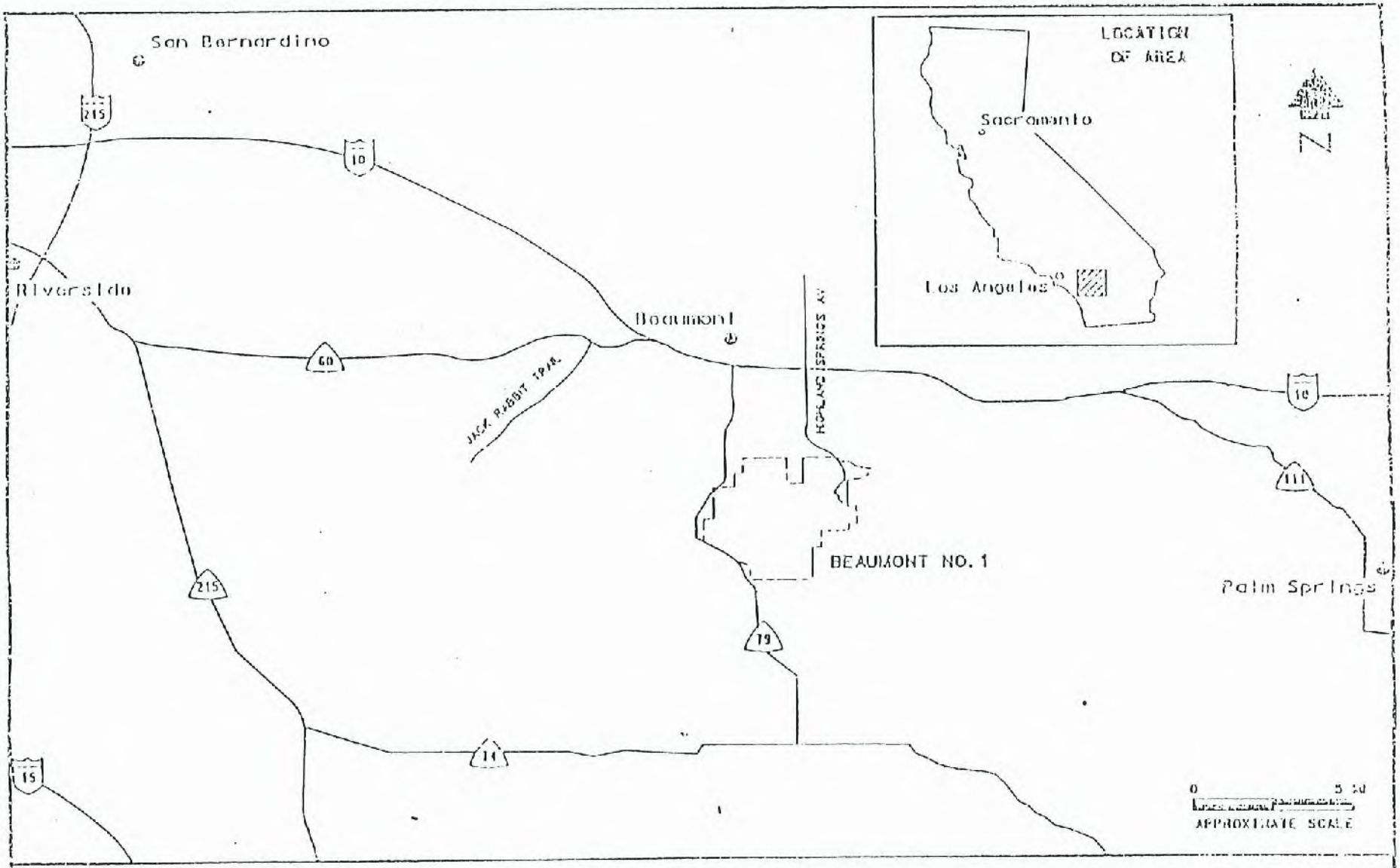
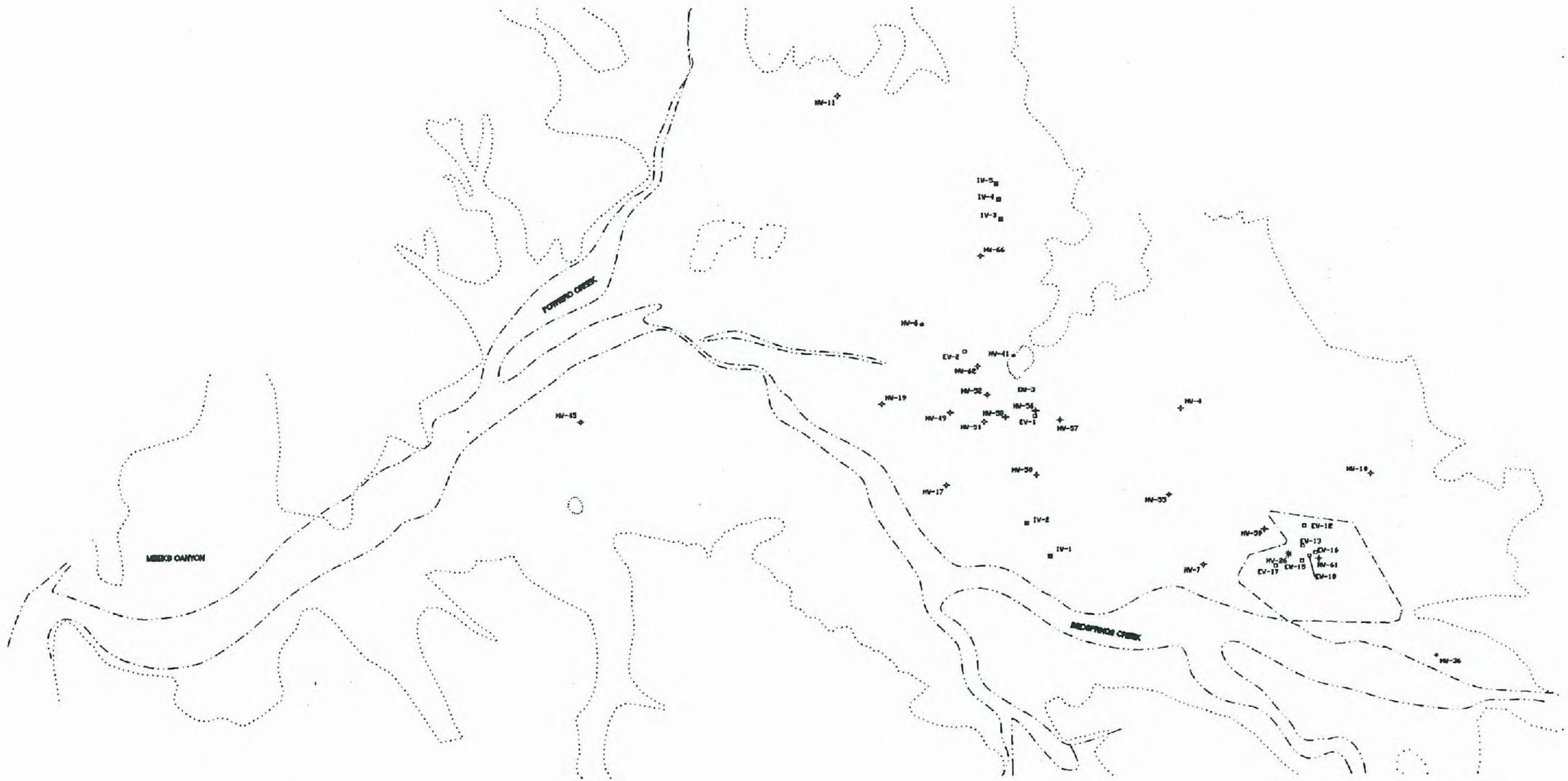


Figure 1 Location of Lockheed Beaumont No. 1 Site

LOCKHD LCB1-2 3/15/93



Legend:

North

Scale: 1 Inch = 400 Feet

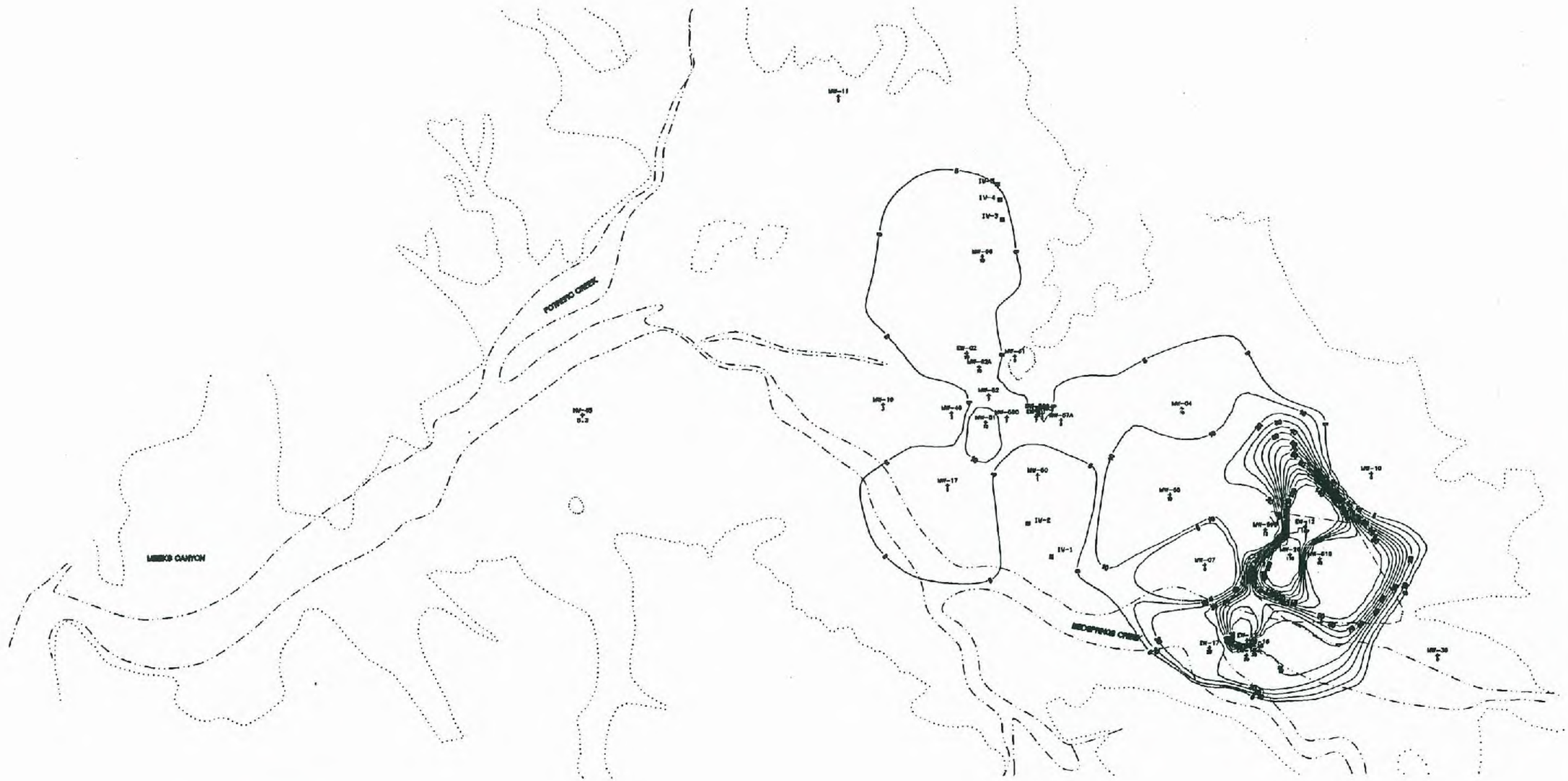
- CONTACT OF ALLUVIUM WITH GRANITIC BEDROCK AND/OR MT. EDEN FORMATION AT GROUND SURFACE
- INTERMITTENT STREAM
- BURN PIT AREA PERIMETER
- EXTRACTION WELL (RADIAN CORPORATION)
- MULTIPLE WELL POINT CLUSTER (RADIAN CORPORATION)
- MT. EDEN ZONE MONITORING WELL (RADIAN CORPORATION)
- SINGLE POINT SHALLOW MONITORING WELL (RADIAN CORPORATION)
- PIEZOMETER (RADIAN CORPORATION)
- INJECTION WELL (RADIAN CORPORATION)

CADD INFO:
VB14 40714
Time: 18:05:28
Date: 07/29/1996
Scale: 1=400
Drawing File: DRAFT\BEAUMONT\WO\Bg_2.DWG (F.K.)

PREP. BY: F.K.	SCALE: 1"=400'
REV. BY:	DATE: 07/29/96

LOCKHEED MARTIN
BURBANK PROGRAM OFFICE
2555 N. HOLLYWOOD WAY SUITE 305
BURBANK, CALIFORNIA 91505

Figure 2
BEAUMONT #1, CALIFORNIA
WELL LOCATION MAP



Legend

- TCA CONCENTRATION CONTOURS
- CONTACT OF ALLUVIUM WITH GRANITIC BEDROCK AND/OR RO. ERON FORMATION AT GROUND SURFACE
- INTERMITTENT STREAM
- BANK PIT AREA PERIMETER
- EXTRACTION WELL (RADIAN CORPORATION)
- MULTIPLE WELL POINT CLUSTER (RADIAN CORPORATION)
- SINGLE POINT SMALLOW MONITORING WELL (RADIAN CORPORATION)
- MONITORING WELLS
- PIEZOMETER (RADIAN CORPORATION)
- INJECTION WELL (RADIAN CORPORATION)

North

Scale: 1 Inch = 400 Feet

CADD INFO:

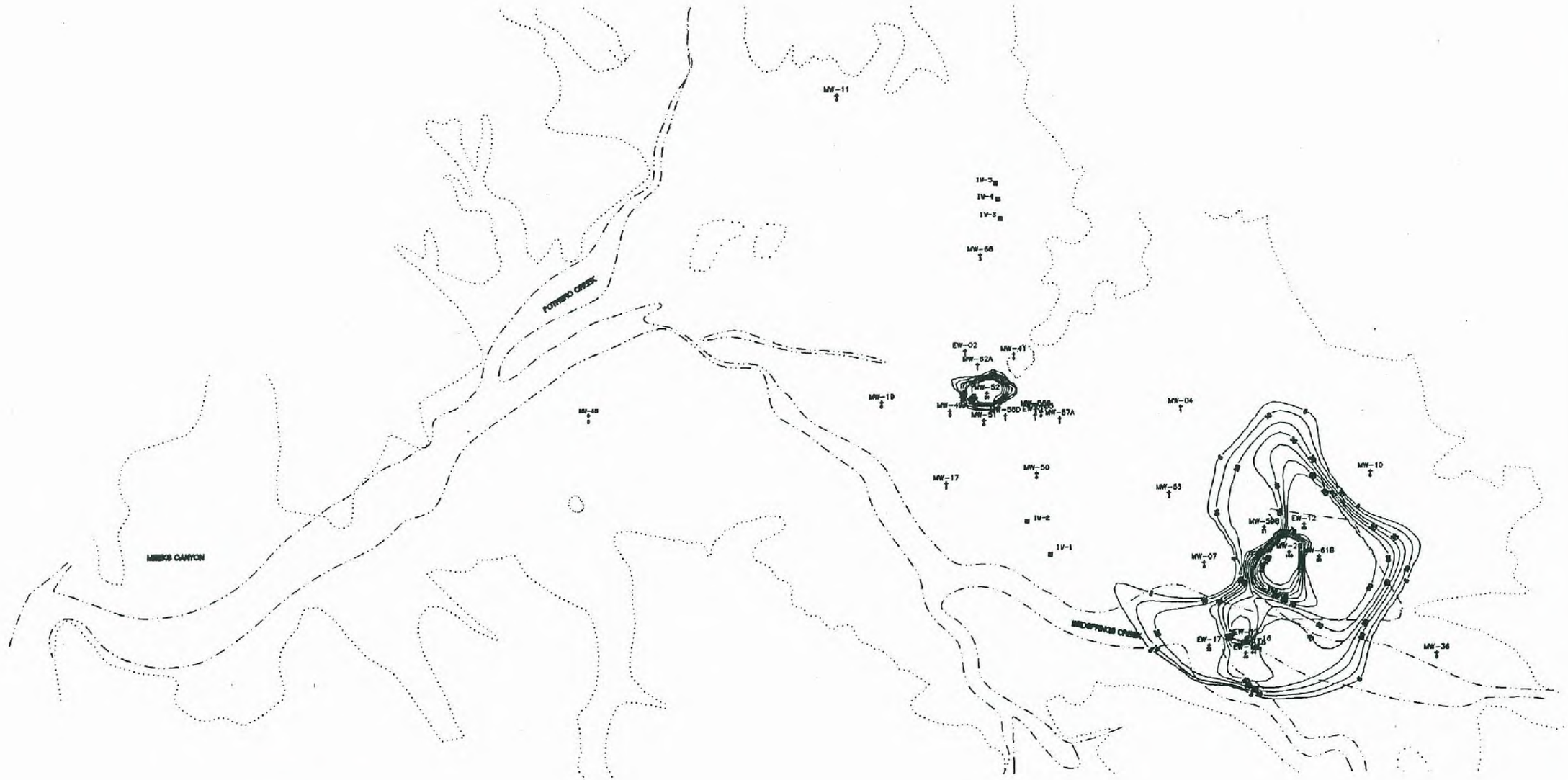
VBS# 40714
Time: 22:37:45
Date: 07/30/1996
Scale: 1=400
Drawing File: DRAFT\BEAUMONT\NOV1996\fig_3.DWG

PREP. BY: F.K.	SCALE: 1"=400'
REV. BY:	DATE: 07/30/96

LOCKHEED MARTIN

BURBANK PROGRAM OFFICE
2500 N. HOLLYWOOD WAY SUITE 305
BURBANK, CALIFORNIA 91505

Figure 3
BEAUMONT #1, CALIFORNIA
1,1,1 Trichloroethane (TCA)
In Groundwater, in PPb
April, 1996



Legend

- BCA CONCENTRATION CONTOURS
- CONTACT OF ALLUVIUM WITH GRANITIC BEDROCK AND/OR MT. EDEN FORMATION AT GROUND SURFACE
- INTERMITTENT STREAM
- BURN PIT AREA PERIMETER
- EXTRACTION WELL (RADIAN CORPORATION)
- MULTIPLE WELL POINT CLUSTER (RADIAN CORPORATION)
- SINGLE POINT SHALLOW MONITORING WELL (RADIAN CORPORATION)
- MONITORING WELLS
- PIEZOMETER (RADIAN CORPORATION)
- INJECTION WELL (RADIAN CORPORATION)

North

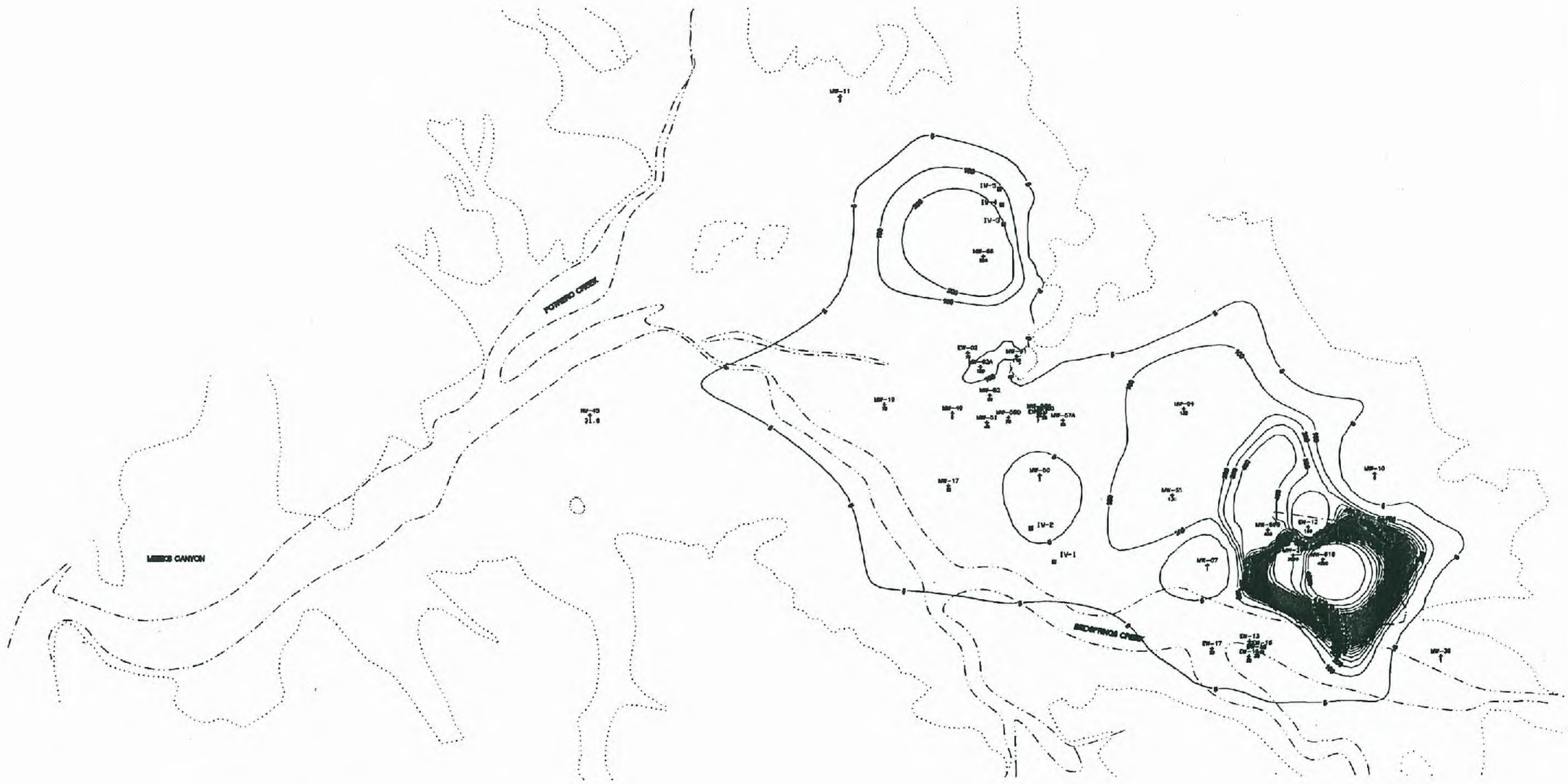
Scale: 1 Inch = 400 Feet

CADD INFO:
WBS# 40714
Time: 22:45:45
Date: 07/30/1996
Scale: 1=400
Drawing File: DRAFT\BEAUMONT\WO\1e496\Bg_4.DWG

PREP. BY: F.K.	SCALE: 1"=400'
REV. BY:	DATE: 07/30/96

LOCKHEED MARTIN
BURBANK PROGRAM OFFICE
2555 N. HOLLYWOOD WAY SUITE 305
BURBANK, CALIFORNIA 91505

Figure 4
BEAUMONT #1, CALIFORNIA
1,2, Dichloroethane (DCA)
In Groundwater, in PPb
April, 1996



Legend

- DCE CONCENTRATION CONTOURS
- CONTACT OF ALLUVIUM WITH GRANITIC BEDROCK AND/OR MT. ESCH FORMATION AT GROUND SURFACE
- INTERMITTENT STREAM
- BURN PIT AREA PERIMETER
- EXTRACTION WELL (RADIAN CORPORATION)
- MULTIPLE WELL POINT CLUSTER (RADIAN CORPORATION)
- SINGLE POINT SHALLOW MONITORING WELL (RADIAN CORPORATION)
- MONITORING WELLS
- PIEZOMETER (RADIAN CORPORATION)
- INJECTION WELL (RADIAN CORPORATION)

North

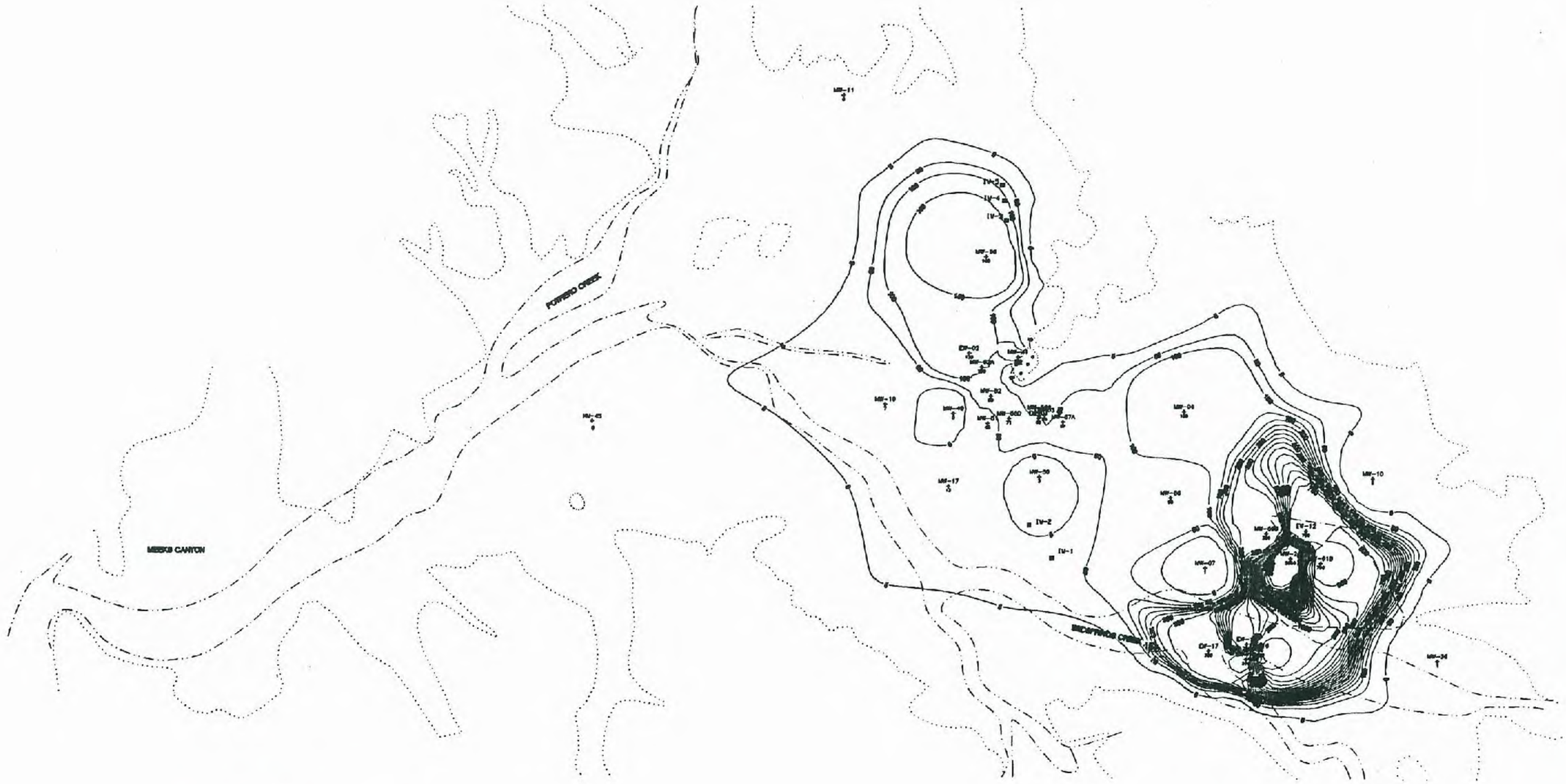
Scale: 1 Inch = 400 Feet

CADD INFO:
WBS# 40714
Time: 22:57:46
Date: 07/30/1996
Scale: 1=400
Drawing File: DRAFT\BEAUMONT\WO\19196\fig_6.DWG

PREP. BY: F.K.	SCALE: 1"=400'
REV. BY:	DATE: 07/30/96

LOCKHEED MARTIN
BURBANK PROGRAM OFFICE
2500 N. HOLLYWOOD WAY SUITE 305
BURBANK, CALIFORNIA 91505

Figure 5
BEAUMONT #1, CALIFORNIA
1,1-Dichloroethylene (DCE)
In Groundwater, In PPb
April, 1996



Legend

- TCE CONCENTRATION CONTOURS
- CONTACT OF ALLUVIUM WITH SEDIMENTARY BEDROCK AND/OR MT. EDEN FORMATION AT BEDROCK SURFACE
- INTERMITTENT STREAM
- BURN PIT AREA PERIMETER
- EXTRACTION WELL (RADIAN CORPORATION)
- MULTIPLE WELL POINT CLUSTER (RADIAN CORPORATION)
- SINGLE POINT SHALLOW MONITORING WELL (RADIAN CORPORATION)
- MONITORING WELLS
- PIEZOMETER (RADIAN CORPORATION)
- INJECTION WELL (RADIAN CORPORATION)

North

Scale: 1 inch = 400 Feet

CADD INFO:
W259 49734
Time: 23:07:46
Date: 07/30/1996
Scale: 1=400
Drawing File: DRAFT\BEAUMONT\WD\1st96\fig_6.DWG

PREP. BY: F.K.	SCALE: 1"=400'
REV. BY:	DATE: 07/30/96

LOCKHEED MARTIN
BURBANK PROGRAM OFFICE
2555 N. HOLLYWOOD WAY, SUITE 304
BURBANK, CALIFORNIA 91505

Figure 6
BEAUMONT #1, CALIFORNIA
Trichloroethane (TCE)
In Groundwater, in PPb
April, 1996

APPENDIX A

FIELD DATA SHEETS

WELL ID: EW-01 (QA)

Date: 4/22/86

Team No: 1

Samplers' Initials: LJP, NA

TD OF CASING _____ ft

STATIC DTW (-) 47.36 ft @ 1400 hr

FT WATER (=) _____

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: _____ ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

CAP OF CASING (x) 1.02 gal / ft (=) _____ gal / 1 CASING VOL (x3 =) _____ gal / 3 CASING VOL (+) INIT FLOWMETER READING _____ (=) _____ TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
	PUMP ON								
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ 1400 Hrs

PUMP OFF @ _____ Hrs

GALLONS PURGED _____

CASING VOLS. PURGED _____

AVERAGE Q: _____ GPM

FINAL PURGE PUMPING WL _____ ft @ _____ Hrs

START SAMPLING @ 1425 Hrs

STOP SAMPLING @ _____ Hrs

WEATHER CONDITIONS

TIME 1405 TEMP 80

SKIES S. CLOUDY

WIND (mph) 5 from NW

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD 0

BREATHING ZONE 0

DISCHARGE WATER 0

HEALTH & SAFETY EQUIPMENT

(GLOVES) (GOGGLES) HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40 mL / HCL

DUP / MS/MSD (TB) / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

EXTRACTION WELL IS PUMPING AT 45 GPM; PURGE TO 1425, THEN SAMPLE.

Verified by: _____ Date: _____

WELL ID: EW-02 (QA)

Page ____ of ____

Date: 4/26/96

TD OF CASING _____ ft

~~STATIC~~ DTW (-) 05.40 ft @ 1310 hr

FT WATER (=) _____

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: _____ - _____ ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: _____

CAP OF CASING (x) 1.02 gal / ft (=) _____ gal / 1 CASING VOL (x3 =) _____ gal / 3 CASING VOL (+) INIT FLOWMETER READING _____ (=) _____ TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
	PUMP ON								
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ _____ Hrs

PUMP OFF @ _____ Hrs

GALLONS PURGED _____

CASING VOLS. PURGED _____

AVERAGE Q: _____ GPM

FINAL PURGE PUMPING WL

_____ ft @ _____ Hrs

START SAMPLING @ _____ Hrs

STOP SAMPLING @ _____ Hrs

WEATHER CONDITIONS

TIME _____ TEMP _____

SKIES _____

WIND (mph) _____ from _____

AIR MONITORING PID / FID (ppm)

VAULT _____ BKGD _____

BREATHING ZONE _____

DISCHARGE WATER _____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL / HCl

DUP / MS/MSD / TB / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

PURGE FOR 15 MINUTES @ 5-4 GPM; SAMPLE AT 1315

Verified by: _____ Date: _____

4" BORE

WELL ID: EW 12 (MW)

Date: 4/24/96

TD OF CASING 115 ft

STATIC DTW (-) 51.41 ft @ ____ hr

FT WATER (=) 63.59

SAMPLE PUMP INTAKE @ — ft

SCREEN INTERVAL: 60 - 111 ft

SPURGE PUMP: — (hp) — (volts) 30 (amps)

Team No: 1

Samplers' Initials: CJP/NA/WHC

CAP OF CASING (x) 1.02 gal / ft (=) 42.5 gal / 1 CASING VOL (x3 =) (27.5 gal / 3 CASING VOL (+) INIT FLOWMETER READING 15606.5 (=) 15 734.0 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1042	PUMP ON			15606.5					
1046	20.4	424	7.17	15618.5	12.0	0.28	12 / 4	3	DTW = 59.10
1051	20.4	430	7.21	15635.6	29.1	0.68	17.1 / 5	3.4	DTW = 59.8
1057	20.2	351	7.28	15656.1	49.6	1.16	20.5 / 6	3.4	DTW = 61.54
1108	20.2	369	7.22	15694.1	87.6	2.06	38.0 / 11	3.4	DTW = 62.37
1118	20.3	378	7.24	15728.5	122.0	2.87	34.4 / 10	3.4	DTW = 62.87
1121	20.3	355	7.24	15738.7	132.2	3.11	10.2 / 3	3.4	
1121	STARTI			SAMPLING			/		DTW = 63.15
1125	PUMP OFF			15753.2	146.7	3.45	/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ 1042 Hrs

PUMP OFF @ 1125 Hrs

GALLONS PURGED 146.7

CASING VOLS. PURGED 3.45

AVERAGE Q: 3.4 GPM

FINAL PURGE PUMPING WL 63.15 ft @ 1121 Hrs

START SAMPLING @ 1121 Hrs

STOP SAMPLING @ 1124 Hrs

WEATHER CONDITIONS

TIME 1040 TEMP 75

SKIES CLEAR

WIND (mph) 10-15 from SW

AIR MONITORING PID / FID (ppm)

VAULT ____ BKGD ____

BREATHING ZONE ____

DISCHARGE WATER ____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	12	40mL / HCl

DUP / MS/MSD / TB / RB (Y) N

If "Y", complete appropriate forms

MEASUREMENT METHOD: (FLOWMETER) / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pH 7 BUFFER 7.3 @ 26.8 °C

BLIND DUPLICATE ⇒ MW-16

Verified by: ____ Date: ____

4" casing

WELL ID: EW 13 (IME)

Date: 4/23/96

Team No: 1

Samplers' Initials:

TD OF CASING 117.0 ft

STATIC DTW (-) ~~51.27~~ ft @ 1115 hr

FT WATER (=) ~~34.27~~ 65.8 42.97

CAP OF CASING (x) 1.02 gal / ft (=) ~~22.~~ gal / 1 CASING VOL (x3 =) ~~68.~~ (128) gal / 3 CASING VOL (+) INIT FLOWMETER READING 15548.7 (=) ______ TARGET

SAMPLE PUMP INTAKE @ ______ ft

SCREEN INTERVAL: 74 - 114 ft

SPURGE PUMP: 1/2 (hp) 230 (volts) 30 (amps)

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1154		PUMP ON		155487					
1156	21.3	356	8.02	15551.5	2.8	0.07	2.8 / 2	1.4	red ~~54.9~~ = DTW
1201	20.5	.332	8.45	15558.8	10.1	0.23	7.3 /	1.46	DTW 63.55
1208	will	pump		dry -	flow meter	off.	+	pump	control @ 375
							/		DTW 81 @ 1231
1225		pump - off		- will	bail	when	recovered!		
							/		
							/		
	Sampled	@ 1515.					/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ 1154 Hrs

PUMP OFF @ 1208 Hrs

GALLONS PURGED ______

CASING VOLS. PURGED ______

AVERAGE Q: ______ GPM

FINAL PURGE PUMPING WL ______ ft @ ______ Hrs

START SAMPLING @ ______ Hrs

STOP SAMPLING @ ______ Hrs

WEATHER CONDITIONS

TIME 1145 TEMP 85

SKIES CLEAR

WIND (mph) 10-15 from W

AIR MONITORING PID / FID (ppm)

VAULT 0.0 BKGD 0.0

BREATHING ZONE 0.0

DISCHARGE WATER 0.0

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT / RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL / HCl

DUP / MS/MSD / TB / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:
(Factors possibly affecting samples, condition of sampling equipment, etc.)

pH 7 BUFFER = 7.50 @ 27.0

pump at 225 control

Verified by: ______ Date: ______

WELL ID: EW-15 (ME)

Date: 4.23.96

Team No:

Samplers' Initials: WHC, NA, LJP

TD OF CASING 107 ft

STATIC DTW (-) 61.25 ft @ 1345 hr

FT WATER (=) 45.75

SAMPLE PUMP INTAKE @ ______ ft

SCREEN INTERVAL: 65 - 105 ft

SPURGE PUMP: ______ (hp) ______ (volts) 30 (amps)

CAP OF CASING (x) [illegible] gal / ft (=) 29.87 gal / 1 CASING VOL (x3 =) 89.6 gal / 3 CASING VOL (+) INIT FLOWMETER READING ______ (=) ______ TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1411		PUMP ON							
1416					25		25 / 5	5*	DTW = 75.0
1420							/		" " 83.0
1426							/		96.0
					Pumped dry @ ~96 feet.				
					will sample by bailer when recovered.				
				Sampled @ ~~1405~~ 1605			/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ ______ Hrs

PUMP OFF @ ______ Hrs

GALLONS PURGED ______

CASING VOLS. PURGED ______

AVERAGE Q: ______ GPM

FINAL PURGE PUMPING WL ______ ft @ ______ Hrs

START SAMPLING @ 1605 Hrs

STOP SAMPLING @ ______ Hrs

WEATHER CONDITIONS

TIME 1400 TEMP 89

SKIES clear

WIND (mph) 10 from ______

AIR MONITORING PID / FID (ppm)

VAULT - BKGD ______

BREATHING ZONE ______

DISCHARGE WATER ______

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID

DUP / MS/MSD / TB / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:
(Factors possibly affecting samples, condition of sampling equipment, etc.)

* BY BUCKET

Verified by: ______ Date: ______

WELL ID: EW-16 (ME)

Date: 4/23/96

TD OF CASING 107 ft

STATIC DTW (-) 55.48 ft @ 0838 hr

FT WATER (=) 51.25

SAMPLE PUMP INTAKE @ 102 ft

SCREEN INTERVAL: 65 . 107 ft

SPURGE PUMP: 1/2 (hp) 230 (volts) 30 (amps)

Team No: 1

Samplers' Initials: WHC, NA, CJP

CAP OF CASING (x) ~~.02~~ gal / ft (=) 33.7 gal / 1 CASING VOL (x3 =) 101.1 gal / 3 CASING VOL (+) INIT FLOWMETER READING 15443.2 (=) 155443 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
0850	PUMP ON			15443.2					
0908	pump on			15443.2			/		
912	20	.378	7.94	15447.3	4.1	0.12	4.1 / 4	1.02	65.05 : DTW
914	20.0	.365	7.70	15450.5	7.3	0.22	3.2 / 2	1.6	
918	19.9	.384	7.9	15457.0	13.8	0.41	6.5 / 4	1.6	67.95 : DTW
926	19.9	.396	8.65	15469.6	26.4	0.78	12.6 / 8	1.6	72.05 : DTW
940	20.1	.402	8.66	15490.5	47.3	1.40	20.9 / 14	1.5	76.85 : DTW
957	20.2	.370	8.07	15515.2	72.0	2.1	24.7 / 17	1.45	82.83 : DTW
1013	20.4	.404	.785	15536.0	93.0	2.8	20.8 / 15	1.38	85.65 : DTW
1019	20.5	.406	.770	15545.6	102.4	3.04	9.6 / 7	1.37	87.45 : DTW
1020	Start Sampling						/		
1021	Stop Sampling - pump off			15548.3	105.1	3.12	2.7 / 2	1.35	
							/		
							/		

PUMP ON @ 0850-0908 Hrs

PUMP OFF @ 1021 Hrs

GALLONS PURGED 105.1

CASING VOLS. PURGED 3.12

AVERAGE Q: 1.4 GPM

FINAL PURGE PUMPING WL 87.45 ft @ 1019 Hrs

START SAMPLING @ 1020 Hrs

STOP SAMPLING @ 1021 Hrs

WEATHER CONDITIONS

TIME 0830 TEMP 80

SKIES CLEAR

WIND (mph) 0-5 from W

AIR MONITORING PID / FID (ppm)

VAULT 0.0 BKGD 0.0

BREATHING ZONE 0.0

DISCHARGE WATER ___

HEALTH & SAFETY EQUIPMENT

(GLOVES) / (GOGGLES) HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40 mL / HCL

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: (FLOWMETER) / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

4" : Diam/in

Control box = 350 for full time.

Verified by: ___ Date: ___

WELL ID: EW-18 (ME)

Date: 4/23/96

TD OF CASING 102 ft

STATIC DTW (-) 62.10 ft @ 1308 hr

FT WATER (=) 39.9

SAMPLE PUMP INTAKE @ 96 ft

SCREEN INTERVAL: 60 - 100 ft

SPURGE PUMP: 2 (hp) 230 (volts) 30 (amps)

Team No:

Samplers' Initials: WHS, WA, GTP

CAP OF CASING (x) ~~1.02~~ gal / ft (=) 260 gal / 1 CASING VOL (x3 =) 78.0 gal / 3 CASING VOL (+) INIT FLOWMETER READING 15568.0 (=) 15646.0 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1316	PUMP ON			15568.0					
1317	—	—	—	—	5	0.06	5 / 1	5	DTW = 64.50
1321	—	—	—	—	25	0.30	25 / 5	5	DTW = 74.50
1326	—	—	—	—	50	0.60	50 / 10	5	DTW = 85.30
1328	—	—	—	—	60	0.~~75~~	60 / 12	5	DTW = 90.00
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ 1316 Hrs

PUMP OFF @ 1328 Hrs

GALLONS PURGED 60

CASING VOLS. PURGED

AVERAGE Q: GPM

FINAL PURGE PUMPING WL

ft @ Hrs

START SAMPLING @ Hrs

STOP SAMPLING @ Hrs

WEATHER CONDITIONS

TIME 1310 TEMP 85

SKIES CLEAR

WIND (mph) 10 from W

AIR MONITORING PID / FID (ppm)

VAULT 0.0 BKGD 0.0

BREATHING ZONE 0.0

DISCHARGE WATER 0.0

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40 mL / HCl

DUP / MS/MSD / TB / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

PUMPING AT 27.5; PUMPS DRY

SAMPLED AT 1328.

Verified by: Date:

4"

WELL ID: EW-17 ( )

Page ___ of ___

Date: 4.26.96

TD OF CASING 109.5 ft

STATIC DTW (-) 50.80 ft @ 0920 hr

FT WATER (=) 58.7

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: (NOT in records) ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: ENA, WMC, LJP

CAP OF CASING (x) 1.02 gal / ft (=) 38.3 gal / 1 CASING VOL (x3 =) 114.9 gal / 3 CASING VOL (+) INIT FLOWMETER READING 89372.0 (=) 89486.9 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
937	PUMP ON			89372.0					
939	19.4	.183	7.48	89376.4	4.4	0.11	4.4 / 2	2.2	sludge - dark DTW 56.2
942	19.4	.177	7.48	89381.8	9.8	0.25	5.4 / 3	1.8	DTW 57.58
947	19.3	.179	7.45	89390.6	18.6	0.49	8.8 / 5	1.8	light - red, DTW 58.42
953	19.2	.233	7.44	89 404.4	32.4	0.84	13.8 / 6	2.3	DTW 61.02
958	19.2	.271	7.410	89 417.8	45.8	1.18	13.4 / 5	2.7	light brown DTW 62.48
1005	19.2	.248	7.43	89 438.5	66.5	1.74	20.7 / 7	3.0	DTW 65.62
1011	19.3	.238	7.52	89 459.9	87.9	2.3	21.4 / 6	3.6	DTW 68.78
1018	19.3	.252	7.59	89 485.7	113.7	2.96	25.8 / 7	3.7	
1020	19.3	.258	7.60	89 493.1	121.1	3.16	7.4 / 2	~~7.4~~ 3.7	DTW 71.04
1021	start	Sampl	ing				/		
1023	stop	sampl	ing				/		
1024	pump off			89505.5	133.5	3.48	12.4 / 4	3.1	
							/		

PUMP ON @ 937 Hrs

PUMP OFF @ 1024 Hrs

GALLONS PURGED 133.5

CASING VOLS. PURGED 3.48

AVERAGE Q: 2.8 GPM

FINAL PURGE PUMPING WL 71.04 ft @ 1020 Hrs

START SAMPLING @ 1021 Hrs

STOP SAMPLING @ 1023 Hrs

WEATHER CONDITIONS

TIME 930 TEMP 86

SKIES sunny

WIND (mph) 0 from

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD _____

BREATHING ZONE _____

DISCHARGE WATER _____

HEALTH & SAFETY EQUIPMENT

(GLOVES) / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL VOA / HCL

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

Verified by: _____ Date: _____

4" d'mtr

WELL ID: MW-4 (QA)

Page ____ of ____

Date: 4-26-96

TD OF CASING 85.0 ft

STATIC DTW (-) 31.66 ft @ 805 hr

FT WATER (=) 53.3

SAMPLE PUMP INTAKE @ ____ ft

SCREEN INTERVAL: 62 - 82 ft

SPURGE PUMP: ____ (hp) ____ (volts) 30 (amps)

Team No: ____

Samplers' Initials: EVA / CJP / [illegible]

CAP OF CASING (x) 1.02 gal / ft (=) 34.8 gal / 1 CASING VOL (x3 =) 104.4 gal / 3 CASING VOL (+) INIT FLOWMETER READING 89249.5 (=) 89353.9 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
820	PUMP ON			89249.5					
822	20.1	.262	7.98	89253.7	4.2	0.12	4.2 / 2	2.1	clear DTW: 38.62
825	20.6	.254	7.82	89263.6	14.9	0.28	9.9 / 3	3.3	
830	20.9	.276	7.81	89279.5	30.0	0.86	15.9 / 5	3.2	DTW: 39.94
834	20.9	.264	7.80	89294.2	44.7	1.28	14.7 / 4	3.7	DTW: 41.32
839	20.9	.260	7.76	89312.6	63.1	1.81	18.4 / 5	3.7	DTW 41.91
844	20.9	.287	7.65	89331.0	81.5	2.34	18.4 / 5	3.7	
848	20.9	.277	7.65	89346.0	96.5	2.77	15 / 4	3.75	DTW 42.91
852	20.9	.248	7.64	89361.6	112.1	3.22	15.6 / 4	3.9	
853	start sampling						/		
855	stop sampling						/		
855	pump OFF			89371.7	121.7	3.5	9.6 / 3	3.2	
							/		
							/		

PUMP ON @ 820 Hrs

PUMP OFF @ 855 Hrs

GALLONS PURGED 121.7

CASING VOLS. PURGED 3.5

AVERAGE Q: 3.5 GPM

FINAL PURGE PUMPING WL 429.1 ft @ 850 Hrs

START SAMPLING @ 853 Hrs

STOP SAMPLING @ ____ Hrs

WEATHER CONDITIONS

TIME 816 TEMP 70

SKIES clear

WIND (mph) 0 from ____

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD ____

BREATHING ZONE ____

DISCHARGE WATER ____

HEALTH & SAFETY EQUIPMENT

(GLOVES) / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL VOA / HCl

DUP / MS/MSD / TB / (FB) Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pump control box = 375

effervescence!

Verified by: ____ Date: ____

4" diameter

WELL ID: MW-6 (OA-ME1)

: ____ of ____

Date: 4-27-96

TD OF CASING 119. ft

STATIC DTW (-) 6.44 ft @ 800 hr

FT WATER (=) 112.6

SAMPLE PUMP INTAKE @ ____ ft

SCREEN INTERVAL: 104 - 114 ft

SPURGE PUMP: ____ (hp) ____ (volts) 30 (amps)

Team No: ____

Samplers' Initials: LJP, EVA, WHC

CAP OF CASING (x) 1.02 gal / ft (=) 73.5 gal / 1 CASING VOL (x3 =) 220.5 gal / 3 CASING VOL (+) INIT FLOWMETER READING 89626.0 (=) 89846.5 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
815	PUMP ON			89626.0					
817	18.2	.204	9.42	89633.3	7.3	0.1	7.3 / 2	3.6	DTW: 9.30
819	19.2	.218	8.51	89643.2	16.2	0.2	8.9 / 2	4.45	DTW: 9.98
826	19.3	.259	8.33	89663.8	37.8	0.5	21.6 / 7	3.09	pump shut down ~2 min.
831	19.3	.193	8.02	89687.6	61.6	0.8	23.8 / 5	4.76	DTW: 11.6
837	19.3	.193	7.92	89716.8	90.8	1.2	29.2 / 6	4.87	DTW: 12.17
846	19.3	.192	7.86	89760.1	134.1	1.8	43.3 / 9	4.81	DTW: 12.65
857	19.4	.203	7.80	89813.2	187.2	2.5	53.1 / 11	4.83	DTW: 13.04
904	19.4	.197	7.78	89847.2	221.2	3.0	34.0 / 7	4.86	DTW 13.19
905	Start Sampling						/		
906	Stop Sampling						/		
907	pump off			89857.6	231.6	3.15	10.4 / 3	3.47	
							/		
							/		

PUMP ON @ 815 Hrs

PUMP OFF @ 907 Hrs

GALLONS PURGED 231.6

CASING VOLS. PURGED 3.15

AVERAGE Q: 4.45 GPM

FINAL PURGE PUMPING WL 13.19 ft @ 903 Hrs

START SAMPLING @ 905 Hrs

STOP SAMPLING @ 906 Hrs

WEATHER CONDITIONS

TIME 805 TEMP 72

SKIES clear

WIND (mph) — from ____

AIR MONITORING PID / FID (ppm)

VAULT — BKGD ____

BREATHING ZONE ____

DISCHARGE WATER ____

HEALTH & SAFETY EQUIPMENT

(GLOVES) GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL VOA / HCl

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: (FLOWMETER) / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

Verified by: ____ Date: ____

11"

WELL ID: MW-7 (QA)

____ of ____

Date: 4-25-96

TD OF CASING 93.0 ft

STATIC DTW (-) 48.9 ft @ 1120 hr

FT WATER (=) 44.1

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: 70 - 90 ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: EVA. LSP

CAP OF CASING (x) ~~1.02~~ gal / ft (=) 29.0 gal / 1 CASING VOL (x3 =) 87.0 gal / 3 CASING VOL (+) INIT FLOWMETER READING 890270 (=) 891140 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1136	PUMP ON			890270					
1138	16.3	0.108	7.47	890298	2.8	0.1	2.8 / 2	1.4	DTW = 49.0
1140	16.3	0.128	7.35	890345	~~97.5~~	~~0.34~~	4.7 / 3	2.4	
1143	16.1	.115	7.26	890432.8	15.8	0.54	8.3 / 3	2.8	DTW = 49.04
1147	16.1	.123	7.28	890565	29.5	1.01	13.7 / 4	3.4	DTW = 49.06
1153	16.2	.121	7.21	890777.6	50.16	1.74	21.1 / 6	3.5	
1159	16.1	.122	7.24	890999.0	72.0	2.5	21.4 / 6	3.16	DTW = 49.08
1204	16.1	.119	7.24	891117.0	90.0	3.1	18 /	2.6	
1205	start Sampling						/		
1207	stop Sampling						/		
1207	pump off			891138.0	101	3.5	/		
							/		
							/		
							/		

PUMP ON @ 1136 Hrs

PUMP OFF @ 1207 Hrs

GALLONS PURGED 101

CASING VOLS. PURGED 3.5

AVERAGE Q: 3.3 GPM

FINAL PURGE PUMPING WL

49.08 ft @ 1200 Hrs

START SAMPLING @ 1205 Hrs

STOP SAMPLING @ 1207 Hrs

WEATHER CONDITIONS

TIME 1135 TEMP 80

SKIES Partly Cloudy

WIND (mph) 10 from S

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD 0

BREATHING ZONE 0

DISCHARGE WATER 0

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL VOA HCL

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: (FLOWMETER) / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

Control box: 370

Verified by: _____ Date: _____

4" Grundfos

WELL ID: MW-10 (QA)

____ of ____

Date: 4-25-96

TD OF CASING 100 ft

STATIC DTW (-) 47 ft @ 922 hr

FT WATER (=) 53

SAMPLE PUMP INTAKE @ 95 ft

SCREEN INTERVAL: 79 - 99 ft

SPURGE PUMP: ____ (hp) ____ (volts) 30 (amps)

Team No: ____

Samplers' Initials: LJP, MA

CAP OF CASING (x) ~~1.02~~ gal / ft (=) 34.6 gal / 1 CASING VOL (x3 =) 103.8 gal / 3 CASING VOL (+) INIT FLOWMETER READING 15756.5* (=) 15860.3 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
944	PUMP ON			15756.5*					
947	25.0	.276	7.30	broken	12	0.35	12 / 3	4	49.65 : DTW
950	20.8	.268	7.38		24	0.69	12 / 3	4	
954	20.9	.257	7.38		40	1.15	16 / 4	4	DTW : 50.0
957	20.9	.273	7.34		52	1.50	12 / 4	4	DTW 50.16
1002	20.9	.318	7.30		72	2.1	30 / 5	4	
1007	21.0	.286	7.30		92	2.65	20 / 5	4	DTW 50.3
1011	21.0	.295	7.35		112	3.2	20 / 5	4	
1012	Start Sampling						/		
1013	Start Sampling						/		
1014	Pump off				124	3.6	12 / 3	4	
							/		
							/		
							/		

PUMP ON @ 944 Hrs

PUMP OFF @ 1014 Hrs

GALLONS PURGED 124

CASING VOLS. PURGED ____

AVERAGE Q: ____ GPM

FINAL PURGE PUMPING WL 50.35 ft @ 10.11 Hrs

START SAMPLING @ 1012 Hrs

STOP SAMPLING @ 1013 Hrs

WEATHER CONDITIONS

TIME 925 TEMP 68

SKIES Fair clouds

WIND (mph) 10 from Variable

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD ____

BREATHING ZONE ____

DISCHARGE WATER ____

HEALTH & SAFETY EQUIPMENT

(GLOVES) / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	VOA - 40mL / HCL

DUP / MS/MSD / TB / (FB) Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / (BUCKET)

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

Flowmeter = flow by bucket.

Verified by: ____ Date: ____

4"

WELL ID: MW-... (QA)

____ of ____

Date: 4.26.96

TD OF CASING 700 ft

STATIC DTW (-) 32.68 ft @ 1336 hr

FT WATER (=) 37.32

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: 46 - 66 ft

SPURGE PUMP: ____ (hp) ____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: LJP, WHC, EVN

CAP OF CASING (x) ~~0.02~~ gal / ft (=) 24.4 gal / 1 CASING VOL (x3 =) 73.1 gal / 3 CASING VOL (+) INIT FLOWMETER READING 89506.2 (=) 89579.3 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1343	PUMP ON			89506.2					
1346	23.5	.309	7.39	89512.5	6.3	0.26	6.3 / 3	~~2.1~~	
1349	22.5	.365	7.50	89519.3	13.0	0.53	6.7 / 3	2.2	36.34 = DTW
1353	22.3	.825	7.53	89529.8	23.6	0.97	10.6 / 4	2.7	37.37 = DTW
1400	22.1	.845	7.61	89551.1	44.9	1.84	21.3 / 7	3.0	38.2 = DTW
1406	22.0	.878	7.66	89567.2	63.0	2.6	18.1 / 6	3.0	38.66 = DTW
1410	22.0	.893	7.66	89591.6	75.4	3.09	12.4 / 4	3.1	
1411	start sampling						/		
1414	stop sampling						/		
1415	pump off			89591.9	85.7	3.51	10.3 / 5	2.06	
							/		
							/		
							/		
							/		

PUMP ON @ 1343 Hrs

PUMP OFF @ 1415 Hrs

GALLONS PURGED 85.7

CASING VOLS. PURGED 3.51

AVERAGE Q: 2.7 GPM

FINAL PURGE PUMPING WL 38.66 ft @ 1406 Hrs

START SAMPLING @ ____ Hrs

STOP SAMPLING @ ____ Hrs

WEATHER CONDITIONS

TIME 1336 TEMP 98°

SKIES clear

WIND (mph) 5 from

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD ____

BREATHING ZONE ____

DISCHARGE WATER ____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL VOA / HCl

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: (FLOWMETER) / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pH 7.0 = 7.53

Verified by: _____ Date: _____

WELL ID: MW-17 10A

Date: 4.27.96

TD OF CASING 65 ft

STATIC DTW (-) 15.12 ft @ 1515 hr

FT WATER (=) _____

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: 44 - 64 ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: LJP, ENA, WHC

CAP OF CASING (x) 1.02 gal / ft (=) _____ gal / 1 CASING VOL (x3 =) _____ gal / 3 CASING VOL ( ) INIT FLOWMETER READING _____ (=) _____ TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
	PUMP ON								
				will pump dry -			/		Info from
				last sampling round)			/		
							/		
				will sample when re			charged		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ _____ Hrs
PUMP OFF @ _____ Hrs
GALLONS PURGED _____
CASING VOLS. PURGED _____
AVERAGE Q: _____ GPM
FINAL PURGE PUMPING WL _____ ft @ _____ Hrs

START SAMPLING @ _____ Hrs
STOP SAMPLING @ _____ Hrs

WEATHER CONDITIONS
TIME _____ TEMP _____
SKIES _____
WIND (mph) _____ from _____

AIR MONITORING PID / FID (ppm)
VAULT _____ BKGD _____
BREATHING ZONE _____
DISCHARGE WATER _____

HEALTH & SAFETY EQUIPMENT
GLOVES / GOGGLES / HARDHAT
RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
BDIC	3	40mL VOA/HCl

DUP / MS/MSD / TB / FB Y N
If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:
(Factors possibly affecting samples, condition of sampling equipment, etc.)
SAMPLED on 4/29/96 @ 0800; DTW = 15.84

Verified by: _____ Date: _____

4"

WELL ID: MW 19 (QA)

Page ____ of ____

Date: 4.27.96

TD OF CASING 50.0 ft

STATIC DTW (-) 4.2 ft @ 1424 hr

FT WATER (=) 45.8

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: 25 - 45 ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: LJP, WKC, NA

CAP OF CASING (x) 1.02 gal / ft (=) 29.9 gal / 1 CASING VOL (x3 =) 89.7 gal / 3 CASING VOL (+) INIT FLOWMETER READING 899837 (=) _____ TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1427	PUMP ON			899837			/		
				will pump dry !!			/		
				Sample when recharged			/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ _____ Hrs

PUMP OFF @ _____ Hrs

GALLONS PURGED _____

CASING VOLS. PURGED _____

AVERAGE Q: _____ GPM

FINAL PURGE PUMPING WL _____ ft @ _____ Hrs

START SAMPLING @ _____ Hrs

STOP SAMPLING @ _____ Hrs

WEATHER CONDITIONS

TIME _____ TEMP _____

SKIES _____

WIND (mph) _____ from _____

AIR MONITORING PID / FID (ppm)

VAULT _____ BKGD _____

BREATHING ZONE _____

DISCHARGE WATER _____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID

DUP / MS/MSD / TB / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

SAMPLED ON 4/27/96 @ 0815, DTW = 8.18

Verified by: _____ Date: _____

5" BORE

WELL ID: MW-26 (ME)

Date: 4/24/96

Team No: ____

Samplers' Initials: LSP/NR/WHC

TD OF CASING 129 ft

STATIC DTW ( ) 53.88 ft @ 840 hr

FT WATER (=) 72.2

SAMPLE PUMP INTAKE @ — ft

SCREEN INTERVAL: 88 - 128 ft

SPURGE PUMP: — (hp) — (volts) 30 (amps)

CAP OF CASING (x) 1.02 gal / ft (=) 73.6 gal / 1 CASING VOL (x3 =) 220.9 gal / 3 CASING VOL (+) INIT FLOWMETER READING 15568.0 (=) 15788.9 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
0900	PUMP ON			15568.0					
0903	18.5	380	7.83	15572.9	4.9	0.07	4.9 / 3	1.63	DTW - 57.4
0906	18.6	401	7.61	1557.8.7	10.7	0.14	5.8 /	1.93	DTW = 62.0 *
				PUMPED WELL DRY, WELL			/		
				BAILED SAMPLE	AFTER	80%	RECOVERY		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ 0900 Hrs

PUMP OFF @ ____ Hrs

GALLONS PURGED ____

CASING VOLS. PURGED ____

AVERAGE Q: ____ GPM

FINAL PURGE PUMPING WL

____ ft @ ____ Hrs

START SAMPLING @ ____ Hrs

STOP SAMPLING @ ____ Hrs

WEATHER CONDITIONS

TIME 859 TEMP 75

SKIES CLEAR

WIND (mph) 0 from

AIR MONITORING (PID) / FID (ppm)

VAULT ____ BKGD ____

BREATHING ZONE ____

DISCHARGE WATER ____

HEALTH & SAFETY EQUIPMENT

(GLOVES) / (GOGGLES) / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
9010		

DUP / MS/MSD / TB / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

PUMP SET @ 250 (CONTROL); @ 1.9 Q WE HAVE 110 MINUTES TO SAMPLE TIME BUT WITH WATER LEVEL DROPPING @ ~10'/6 MINUTES, THIS WELL WILL BE DRY IN ~ 25 - 30 MINUTES

→ TO INCREASE PUMP CONTROL TO 375 & WILL PUMP WELL DRY

Verified by: ____ Date: ____

2" BORE

WELL ID: MW-36 (QA)

___ of ___

Date: 4/24/96

Team No: 1

Samplers' Initials: LJP/NA/WHC

TD OF CASING 105 ft

STATIC DTW (-) 68.80 ft @ 1500 hr

FT WATER (=) 36.2

SAMPLE PUMP INTAKE @ — ft

SCREEN INTERVAL: 85 - 105 ft

SPURGE PUMP: — (hp) — (volts) 30 (amps)

CAP OF CASING (x) 1.02 gal / ft (=) 6.6 gal / 1 CASING VOL (x3 =) 19.8 gal / 3 CASING VOL (+) INIT FLOWMETER READING 15754.0 (=) 15773.8 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
~~1505~~	PUMP ON			15754.6			/		
1511	17.8	176	7.07		12.5	1.89	/	2.5 *	DTW = 71.6
1514	17.4	183	6.92		20.0	3.03	/	2.5	
1516	START SAMPLING						/	↓	
1518	PUMP OFF			~~1575~~ WHC	30	4.5	/	↓	
~~1517~~	WHC						/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

1506

PUMP ON @ 1506 Hrs

PUMP OFF @ 1518 Hrs

GALLONS PURGED 30

CASING VOLS. PURGED 4.5

AVERAGE Q: 2.5 GPM

FINAL PURGE PUMPING WL 71.6 ft @ 1511 Hrs

START SAMPLING @ 1516 Hrs

STOP SAMPLING @ 1517 Hrs

WEATHER CONDITIONS

TIME 1518 TEMP 85

SKIES CLEAR

WIND (mph) 10 from SW

AIR MONITORING PID / FID (ppm)

VAULT ___ BKGD ___

BREATHING ZONE ___

DISCHARGE WATER ___

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010		

DUP / MS/MSD / TB / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / (BUCKET)

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

* FLOW METER NOT WORKING; USED BUCKET

Verified by: ___ Date: ___

4" dia

WELL ID: MW41 (UA-ME)

Page ___ of ___

Date: 4.27.96

TD OF CASING 55.0 ft

STATIC DTW (-) 11.70 ft @ 942 hr

FT WATER (=) 43.3

SAMPLE PUMP INTAKE @ ___ ft

SCREEN INTERVAL: 35 - 55 ft

SPURGE PUMP: ___ (hp) ___ (volts) 30 (amps)

Team No: ___

Samplers' Initials: LJP, EVA, WHC

CAP OF CASING (x) 1.02 gal / ft (=) 28.3 gal / 1 CASING VOL (x3 =) 84.8 gal / 3 CASING VOL (+) INIT FLOWMETER READING 89858.3 (=) 89943.1 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
954	PUMP ON			89858.3					
956	24.3	0.007	7.69	89961.0	3.7	0.1	2.7 / 2	1.35	18.20 - DTW
958	20.5	.440	7.50	89967.8	9.5	0.3	6.8 / 2	3.4	19.84 - DTW
1002	20.6	.419	7.58	89979.3	21.0	0.7	11.5 / 4	2.87	21.80
1011	20.6	.437	7.66	89990.2	50.0	1.76	29.0 / 9	3.22	24.23
1017	20.7	.458	7.75	89999.8	71.5	2.52	21.5 / 6	3.58	25.68
1021	20.7	.393	7.76	90044.3	86.0	3.04	14.5 / 4	3.62	26.98
1022	start Sampling						/		
1029	stop sampling						/		
1030	pump off			90063.5	105.6	3.73	19.6 /	2.18	
							/		
							/		
							/		
							/		

PUMP ON @ 954 Hrs

PUMP OFF @ 1030 Hrs

GALLONS PURGED 105.6

CASING VOLS. PURGED 3.73

AVERAGE Q: 2.93 GPM

FINAL PURGE PUMPING WL 36.98 ft @ 1021 Hrs

START SAMPLING @ 1022 Hrs

STOP SAMPLING @ 1029 Hrs

WEATHER CONDITIONS

TIME 940 TEMP 74

SKIES blue

WIND (mph) ~ from ~

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD ___

BREATHING ZONE ___

DISCHARGE WATER ___

HEALTH & SAFETY EQUIPMENT

(GLOVES) / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	12	40 mL VOA / HCl

(DUP) / MS / MSD / TB / (FB) (Y) N

If "Y", complete appropriate forms

MEASUREMENT METHOD: (FLOWMETER) / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pH 7 = 7.42

Verified by: ___ Date: ___

WELL ID: MW-45 (QA)

Page ____ of ____

Date: 4/26/96

TD OF CASING 55.0 ft

STATIC DTW (-) F ft @ ____ hr

FT WATER (=) 55.0

SAMPLE PUMP INTAKE @ ____ ft

SCREEN INTERVAL: 42.7 - 52.7 ft

SPURGE PUMP: ____ (hp) ____ (volts) 30 (amps)

Team No: ____

Samplers' Initials: ____

CAP OF CASING (x) 1.02 gal / ft (=) ____ gal / 1 CASING VOL (x3 =) ____ gal / 3 CASING VOL (+) INIT FLOWMETER READING ____ (=) ____ TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
	PUMP ON						/		
—	—	—	—	FLOWING	—	—	/	—	CLEAR
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ ____ Hrs

PUMP OFF @ ____ Hrs

GALLONS PURGED ____

CASING VOLS. PURGED ____

AVERAGE Q: ____ GPM

FINAL PURGE PUMPING WL

____ ft @ ____ Hrs

START SAMPLING @ ____ Hrs

STOP SAMPLING @ ____ Hrs

WEATHER CONDITIONS

TIME ____ TEMP ____

SKIES ____

WIND (mph) ____ from ____

AIR MONITORING PID / FID (ppm)

VAULT ____ BKGD ____

BREATHING ZONE ____

DISCHARGE WATER ____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40 mL / HCL

DUP / MS/MSD / TB / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET NA

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

COLLECTED SAMPLES FROM FLOWING WATER IN CASING HOLE.

Verified by: ____ Date: ____

WELL ID: MW-49 (QA)

Date: 4/28/96
Team No: LJC/RG/BC
Samplers' Initials: J

TD OF CASING 53.18 ft
STATIC DTW (-) 6.72 ft @ 1650 hr
FT WATER (=) 46.46

SAMPLE PUMP INTAKE @ — ft
SCREEN INTERVAL: - ft
SPURGE PUMP: — (hp) — (volts) 30 (amps)

CAP OF CASING (x) 1.02 gal / ft (=) 32.7 gal / 1 CASING VOL (x3 =) 98.1 gal / 3 CASING VOL (+) INIT FLOWMETER READING 90397.7 (=) 90496.8 TARGET

TIME	T°C	EC	pH	TOTALIZER FLOWMETER READING	APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1654	PUMP ON			90393.7					Pump
1656	19.7	128	7.10	90399.4	5.7	0.17	5.7 / 2	2.85	DTW = 9.76 300
1658	18.7	137	7.10	90406.4	12.7	0.39	7.0 / 2	3.5	DTW = 11.05 375
1704	18.7	134	7.09	90430.0	36.3	1.11	/ 6		DTW = 12.21
1712	18.7	130	7.13	90462.2	68.5	2.09	32.2 / 8	4.03	DTW = 12.55
1715	18.7	134	7.13	90474.2	80.5	2.46	12.0 / 3	4.00	
1720	18.7	133	7.11	90494.3	~~104.8~~		/		
1721	18.7	134	7.11	90498.5	104.8	3.20	24.3 / 6	4.05	
1721	START SAMPLING						/		
1723	PUMP OFF			905066	112.9	3.45	/		
							/		
							/		
							/		
							/		

PUMP ON @ 1654 Hrs
PUMP OFF @ 1723 Hrs
GALLONS PURGED 112.9
CASING VOLS. PURGED 3.45
AVERAGE Q: 3.89 GPM
FINAL PURGE PUMPING WL ____ ft @ ____ Hrs
START SAMPLING @ 1721 Hrs
STOP SAMPLING @ ____ Hrs

WEATHER CONDITIONS
TIME 1658 TEMP 78
SKIES CLEAR
WIND (mph) 25 from NE

AIR MONITORING (PID) / FID (ppm)
VAULT 1.3 BKGD Ø
BREATHING ZONE Ø
DISCHARGE WATER Ø

HEALTH & SAFETY EQUIPMENT
(GLOVES) / (GOGGLES) / HARDHAT / RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	6	40 ml / HCl

(DUP) / MS/MSD / TB / FB (Y) N
If "Y", complete appropriate forms

MEASUREMENT METHOD: (FLOWMETER) / BUCKET

OTHER NOTES & COMMENTS:
(Factors possibly affecting samples, condition of sampling equipment, etc.)

Verified by: ____ Date: ____

4"

WELL ID: MW-50 (QA)

a ____ of ____

Date: 4.27.96

TD OF CASING 74.3 ft

STATIC DTW (-) 25.0 ft @ 1555 hr

FT WATER (=) 49.3

SAMPLE PUMP INTAKE @ ____ ft

SCREEN INTERVAL: 54.3 - 74.3 ft

SPURGE PUMP: ____ (hp) ____ (volts) 30 (amps)

Team No: ____

Samplers' Initials: EMA, LJP, WHC

CAP OF CASING (x) 1.02 gal / ft (=) 32.2 gal / 1 CASING VOL (x3 =) 96.6 gal / 3 CASING VOL (+) INIT FLOWMETER READING 899952 (=) 900047.6 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1600	PUMP ON			899950					
1602	23.0	.133	7.41	899998	4.8	0.15	4.8 / 2	2.4	
1606	18.4	.130	7.24	900016.1	21.1	0.65	16.3 / 4	4.08	25.34 : DTW
1613	18.2	.130	7.21	900048	49.8	1.55	28.7 / 7	4.1	25.34 - DTW
1618	18.2	.131	7.23	900065.6	70.6	2.19	30.8 / 5	~~5.24~~ 4.11	
1623	18.1	.132	7.22	900086.2	91.2	2.83	20.6 / 5	4.12	
1625	18.1	.131	7.22	900094.2	99.2	3.08	8.0 / 2	4.0	
1626	Start Sampling						/		
1627	Stop Sampling pump off						/		
1627				901023	107.6	3.34	8.1 / 2	4.05	
							/		
							/		
							/		
							/		

PUMP ON @ 1600 Hrs

PUMP OFF @ 1627 Hrs

GALLONS PURGED 107.6

CASING VOLS. PURGED 3.34

AVERAGE Q: 3.99 GPM

FINAL PURGE PUMPING WL

25.34 ft @ 1620 Hrs

START SAMPLING @ 1626 Hrs

STOP SAMPLING @ ____ Hrs

WEATHER CONDITIONS

TIME 1555 TEMP 85

SKIES clear

WIND (mph) 7 from E

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD ____

BREATHING ZONE ____

DISCHARGE WATER ____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40 mL VOA / HCL

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pH 7 = 7.53

Verified by: ____ Date: ____

WELL ID: MW-51 (QA)

____ of ____

Date: 4-28-16

TD OF CASING 67.0 ft

STATIC DTW (-) 13.05 ft @ 1457 hr

FT WATER (=) 53.95

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: 39 - 59 ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: BC, RL

CAP OF CASING (x) 1.02 gal / ft (=) 35.9 gal / 1 CASING VOL (x3 =) 107.7 gal / 3 CASING VOL (+) INIT FLOWMETER READING 90276.4 (=) 90384.1 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1520	PUMP ON			90276.4					
1522	29.2	.009	7.1	90280.7	0.3	.008	0.3 | 2	.15	DTW = 16.50 @ 1527
1524	29.7	.007	7.1	90286.5	10.1	.28	5.8 | 2	2.9	clear
1527	29.7	.007	7.1	90295.5	19.1	.5	9.0 | 3	3.0	DTW = 18.15 @ 1525
1529	19.6	.272	7.1	90302.3	25.9	.72	6.8 | 2	3.4	clear DTW 19.10
1533	19.6	.261	6.9	90317.8	41.4	1.15	15.5 | 4	3.8	DTW = 21.11 @ 1529
1535	19.6	.264	6.9	90325.3	48.9	1.3	7.5 | 2	3.7	DTW = 23.28 @ 1534
1540	19.5	.266	6.9	90345.4	69.2	1.9	20.3 | 5	4.0	clear 27.65
1545	19.5	.265	7.0	90365.4	89.	2.4	19.8 | 5	3.9	
1548	19.4	.266	7.5	90387.3	110.9	3.0	21.9 | 2	4.0	
1550	Start	Sample		90395.2	118.8	3.3	7.9 | 2	3.9	
1552	pump	off		90403.7	127.3	3.5	8.5 |	4.2	
				hand-held			|		
							|		

PUMP ON @ 1520 Hrs

PUMP OFF @ 1552 Hrs

GALLONS PURGED 127.3

CASING VOLS. PURGED 3.5

AVERAGE Q: 3.69 GPM

FINAL PURGE PUMPING WL 27.6 ft @ 1542 Hrs

START SAMPLING @ 1550 Hrs

STOP SAMPLING @ 1551 Hrs

WEATHER CONDITIONS

TIME 1518 TEMP 70+

SKIES clear

WIND (mph) 10-20 from SE

AIR MONITORING PID / FID (ppm)

VAULT _____ BKGD _____

BREATHING ZONE _____

DISCHARGE WATER _____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL HCl

DUP / MS/MSD / TB / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pump control is = to 375 @ 1530 hr

Verified by: _____ Date: _____

4"

MW-52

WELL ID: MW-52 (QA)

Date: 4/28/16

Team No: GSP/RC/BC

Samplers' Initials: J K

TD OF CASING 65 ft

STATIC DTW (-) 11.5 ft @ 1759 hr

FT WATER (=) 53.5

SAMPLE PUMP INTAKE @ — ft

SCREEN INTERVAL: 37 - 57 ft

SPURGE PUMP: — (hp) — (volts) 30 (amps)

CAP OF CASING (x) 1.02 gal / ft (=) 35.9 gal / 1 CASING VOL (x3 =) 107.7 gal / 3 CASING VOL (+) INIT FLOWMETER READING 90507.0 (=) 90614.7 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1805	PUMP ON			90507.0					
1805	20.2	176	6.99	90510.0	3	0.08	3 / 1	3	DTW 12.96
1807	19.8	183	6.96	90517.8	10.8	0.30	7.8 / 2	3.9	13.30
1812	20.0	199	6.95	90537.2	30.2	0.84	19.4 / 5	3.88	
1817	19.9	180	6.98	90557.1	50.1	1.39	19.9 / 5	3.98	
1822	19.9	198	7.00	90577.0	70.0	1.95	19.9 / 5	3.98	
1829	19.9	192	7.01	90605.0	98.0	2.73	28.0 / 7	4.00	
1832	19.9	178	7.02	90617.0	110.0	3.06	12.0 / 3	4.0	DTW=13.56
1833	START SUBMG						/		
1836	PUMP OFF			90634.0	127.0	3.54	/		
							/		
							/		
							/		
							/		

PUMP ON @ 1804 Hrs

PUMP OFF @ 1836 Hrs

GALLONS PURGED 127.0

CASING VOLS. PURGED 3.54

AVERAGE Q: 3.97 GPM

FINAL PURGE PUMPING WL 13.56 ft @ 1836 Hrs

START SAMPLING @ 1833 Hrs

STOP SAMPLING @ 1835 Hrs

WEATHER CONDITIONS

TIME 1801 TEMP 75

SKIES CLEAR

WIND (mph) 20 from W

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD 0

BREATHING ZONE 0

DISCHARGE WATER 0

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40 mL / HCl

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: (FLOWMETER) / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

Pump control set @ 3.75

Verified by: _____ Date: _____

4" BORE

WELL ID: 1W55 (9A)

Page ___ of ___

Date: 4-25-91

TD OF CASING 93.0 ft

STATIC DTW (-) 38.9 ft @ 1456 hr

FT WATER (=) 54.1

SAMPLE PUMP INTAKE @ — ft

SCREEN INTERVAL: 67 - 87 ft

SPURGE PUMP: — (hp) — (volts) 30 (amps)

Team No: ___

Samplers' Initials: ___

CAP OF CASING (x) 1.02 gal / ft (=) 35.9 gal / 1 CASING VOL (x3 =) 107.7 gal / 3 CASING VOL (+) INIT FLOWMETER READING 89138.5 (=) 89236.2 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1505	PUMP ON			89138.5					
1508	18.8	180	6.99	89135.5	7.0	0.19	7.0 / 3	2.3	39.38 = DTW
1511	18.8	174	6.98	89146.6	19.1	0.50	11.1 / 3	3.7	
1513	18.8	187	6.99	89154.4	25.9	0.72	18.9 / 3	6.3	
1516	18.7	190	7.01	89166.2	38.1	1.06	12.2 / 3	4.06	
1528	18.8	197	7.07	89189.6	61.1	1.70	23.0 / 6	3.83	DTW = 39.4
1531	18.7	178	7.14	89225.2	96.7	2.69	35.6 / 9	3.96	DTW = 39.4
1534	18.7	196	7.16	89237.2	108.7	3.03	12.0 / 3	4.0	
1535	START SAMP			LNG			/		
1537	PUMP OFF			89249.0	120.5	3.35	/		
							/		
							/		
							/		
							/		

PUMP ON @ 1505 Hrs

PUMP OFF @ 1537 Hrs

GALLONS PURGED 120.5

CASING VOLS. PURGED 3.35

AVERAGE Q: 3.76 GPM

FINAL PURGE PUMPING WL 39.4 ft @ 1531 Hrs

START SAMPLING @ 1535 Hrs

STOP SAMPLING @ ___ Hrs

WEATHER CONDITIONS

TIME 1458 TEMP 90

SKIES PRTLY CLDY

WIND (mph) 10 from NW

AIR MONITORING PID / FID (ppm)

VAULT ___ BKGD ___

BREATHING ZONE ___

DISCHARGE WATER ___

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL / HCl

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: (FLOWMETER) / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pH 7 = 7.45 @ 28.2

Verified by: ___ Date: ___

2"

WELL ID: MW-16A (ME)

____ of ____

Date: 4.28.96

TD OF CASING 183 ft

STATIC DTW (-) 31.76 ft @ 1055 hr

FT WATER (=) 151.2

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: 176 - 180 ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: EVA, LJF, LTP

CAP OF CASING (x) 1.02 gal / ft (=) 34.8 gal / 1 CASING VOL (x3 =) 74.4 gal / 3 CASING VOL (+) INIT FLOWMETER READING 90149.1 (=) 90223.5 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1103	PUMP ON			90149.1					
1105	21.3	234	8.56	90153.2	4.1	0.116	4.1 / 2	2.05	DTW: 40.0
1108	19.5	.292	9.17	90160.2	13.15	0.53	7.0 / 3	2.3	DTW 43.25
1112	19.8	2.66	9.13	90169.0	19.9	0.8	8.8 / 4	2.2	DTW = 47.0
1116	19.6	.300	9.24	90180.7	31.6	1.3	11.7 / 4	2.9	DTW 49.0
1120	19.7	.296	9.39	90192.8	43.7	1.8	12.1 / 4	3.0	DTW 53.0
1124	19.7	.271	9.35	90205.8	56.7	2.3	13.0 / 4	3.25	DTW: 55.0
1128	19.7	2.48	9.48	90219.3	70.2	2.8	13.5 / 4	3.38	DTW (60.0
1131	19.7	.256	9.45	90230.0	80.9	3.26	10.7 / 3	3.6	DTW: 61.0
1132	Start Sampling						/		
1133	Stop Sampling						/		
1133	pump off			90236.8	87.7	3.54	6.8 / 2	3.4	
							/		
							/		

PUMP ON @ 1103 Hrs

PUMP OFF @ 1133 Hrs

GALLONS PURGED 87.7

CASING VOLS. PURGED 3.54

AVERAGE Q: 2.92 GPM

FINAL PURGE PUMPING WL 61.0 ft @ 1132 Hrs

START SAMPLING @ 1132 Hrs

STOP SAMPLING @ 1133 Hrs

WEATHER CONDITIONS

TIME 1055 TEMP 75

SKIES Clear

WIND (mph) 25 from E

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD _____

BREATHING ZONE _____

DISCHARGE WATER _____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	VOA - 40mL / HCL

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: (FLOWMETER) / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pH 7 = 7.42

Control Unit, 250, then 275, then 300 → 325

Verified by: _____ Date: _____

WELL ID: MW-16C (QA)

____ of ____

Date: 4/28/96

TD OF CASING 63.8 ft

STATIC DTW (-) 16.96 ft @ 1144 hr

FT WATER (=) 46.84

SAMPLE PUMP INTAKE @ — ft

SCREEN INTERVAL: 48 - 58 ft

SPURGE PUMP: — (hp) — (volts) 30 (amps)

Team No: 1

Samplers' Initials: CSP/NA/BC

CAP OF CASING (x) 1.02 gal / ft (=) 8.2 gal / 1 CASING VOL (x3 =) 16.6 gal / 3 CASING VOL (+) INIT FLOWMETER READING 90237.4 (=) 90284.2 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1330	PUMP ON			90237.4					
1332	32.1	298	8.9	90240.5	3.1	0.37	3.1 / 2	2	DTW = 21.45 @ 1331
1334	32.4	.008	7.0	90244.5	7.1	0.86	4 / 2	2	cloudy
1337	20.6	.179	7.6	90252.1	14.7	1.79	7.6 / 3	2.5	DTW = 23.6 @ 1335
1340	20.5	.206	7.3	90262.3	24.9	3.0	10.2 / 3	3.4	cloudy
1343	20.5	.205	7.2	90272.5	35.1	4.2	10.2 / 3	3.4	Start Sampling @ 1343
1344	Pump	off		90275.8	38.4	4.6	3.3 / 1	3.3	
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ 1330 Hrs

PUMP OFF @ 1344 Hrs

GALLONS PURGED 38.4

CASING VOLS. PURGED 4.6

AVERAGE Q: 3.0 GPM

FINAL PURGE PUMPING WL 23.6 ft @ 1335 Hrs

START SAMPLING @ 1343 Hrs

STOP SAMPLING @ ____ Hrs

WEATHER CONDITIONS

TIME 70+ TEMP 132?

SKIES clear

WIND (mph) 10-25 from SE

AIR MONITORING PID / FID (ppm)

VAULT ~~0~~ BKGD ____

BREATHING ZONE ____

DISCHARGE WATER ____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
BOLO	3	40 mL / HCl

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: (FLOWMETER) / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

Verified by: _____ Date: _____

2" diam

WELL ID: MW 57A (QA)

____ of ____

Date: 4.28.96

TD OF CASING 75.0 ft

STATIC DTW (-) 20.0 ft @ 1000 hr

FT WATER (=) 55.0

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: 59 - 69 ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: ENA. WHC. LS

CAP OF CASING (x) 1.02 gal / ft (=) 9.02 gal / 1 CASING VOL (x3 =) 27.0 gal / 3 CASING VOL (+) INIT FLOWMETER READING 90108.2 (=) 90135.2 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1009	PUMP ON			90108.2					
1011	20.2	.184	7.12	90110.9	2.7	0.30	2.7 / 2	1.35	brown 21.00
1013	19.3	.197	7.13	90117.9	9.7	1.07	7.0 / 2	3.50	
1015	19.4	.164	7.13	90126.3	18.1	2.01	8.4 / 2	4.2	
1018	19.4	.159	7.15	90138.6	30.4	3.38	12.3 / 3	4.1	DTW: 21.22
1019	Start Sampling						/		
1021	still sampling						/		
1021	pump off			90148.8	40.6	4.5	/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ 1009 Hrs

PUMP OFF @ 1021 Hrs

GALLONS PURGED 40.6

CASING VOLS. PURGED 4.5

AVERAGE Q: 3.38 GPM

FINAL PURGE PUMPING WL 21.22 ft @ 1015 Hrs

START SAMPLING @ 1019 Hrs

STOP SAMPLING @ _____ Hrs

WEATHER CONDITIONS

TIME 1000 TEMP 72

SKIES clear

WIND (mph) 20 from E

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD _____

BREATHING ZONE _____

DISCHARGE WATER _____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL VOA / HCl

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pH 7: 7.30

pump @ 375

Verified by: _____ Date: _____

2"

WELL ID: MW 58D (QA)

Page ____ of ____

Date: 4.28.96

TD OF CASING 70. ft

STATIC DTW (-) 15.74 ft @ 850 hr

FT WATER (=) 54.26

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: 68 - 70 ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: EWA. LTI.CWMC

CAP OF CASING (x) ~~1.02~~ gal / ft (=) 8.90 gal / 1 CASING VOL (x3 =) 26.7 gal / 3 CASING VOL (+) INIT FLOWMETER READING 90103.1 (=) 90129.8 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
900	PUMP ON			90103.1					
902	17.5	.193	6.94	90104.7	1.6	0.17	1.6 / 2	0.8	~~26~~ 27.0
905	18.4	.168	7.07	90106.9	2.2	0.24	2.2 / 3	0.73	40.3
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ _____ Hrs

PUMP OFF @ _____ Hrs

GALLONS PURGED _____

CASING VOLS. PURGED _____

AVERAGE Q: _____ GPM

FINAL PURGE PUMPING WL

_____ ft @ _____ Hrs

START SAMPLING @ _____ Hrs

STOP SAMPLING @ _____ Hrs

WEATHER CONDITIONS

TIME 850 TEMP 65

SKIES clear

WIND (mph) 15 from SW

AIR MONITORING PID / FID (ppm)

VAULT _____ BKGD _____

BREATHING ZONE _____

DISCHARGE WATER _____

HEALTH & SAFETY EQUIPMENT

(GLOVES) / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	12	
1	Equipblank	
1	Fieldblank	

(DUP) MS/MSD / (TB) / FB (Y) N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

SAMPLED BY BAILER AT 1000; DTW = 15.76

Verified by: _____ Date: _____

WELL ID: MW 59B (ME)

1 of ____

Date: 4.24.96

TD OF CASING 110 ft

STATIC DTW (-) 50.38 ft @ 1341 hr

FT WATER (=) 59.62

SAMPLE PUMP INTAKE @ — ft

SCREEN INTERVAL: 97 - 107 ft

SPURGE PUMP: — (hp) — (volts) 30 (amps)

Team No: ____

Samplers' Initials: ____

CAP OF CASING (x) 1.02 gal / ft (=) ____ gal / 1 CASING VOL (x3 =) ____ gal / 3 CASING VOL (+) INIT FLOWMETER READING ____ (=) ____ TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1403	PUMP ON								
1409	Pump		OFF				/		
				WELL PUMPED DRY; WILL					
				BAILER SAMPLE AFTER 80% RECOVERY					
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ 1403 Hrs

PUMP OFF @ ____ Hrs

GALLONS PURGED ____

CASING VOLS. PURGED ____

AVERAGE Q: ____ GPM

FINAL PURGE PUMPING WL ____ ft @ ____ Hrs

START SAMPLING @ ____ Hrs

STOP SAMPLING @ ____ Hrs

WEATHER CONDITIONS

TIME ____ TEMP ____

SKIES ____

WIND (mph) ____ from ____

AIR MONITORING PID / FID (ppm)

VAULT ____ BKGD ____

BREATHING ZONE ____

DISCHARGE WATER ____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID

DUP / MS/MSD / TB / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

Sampled. 8:45 a.m @ 4.25.96

DTW = 50.40

Verified by: ____ Date: ____

WELL ID: MW 101B (ME)

Page ____ of ____

Date: 4.23.96

TD OF CASING 105.00 ft

STATIC DTW (-) 66.5 ft @ 1455 hr

FT WATER (=) 39.5

CAP OF CASING (x) ~~1.02~~ gal / ft (=) 6.6 gal / 1 CASING VOL (x3 =) 19.8 gal / 3 CASING VOL (+) INIT FLOWMETER READING _____ (=) _____ TARGET

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: 92 - 102 ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: EVA, WHC, LJP.

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1503	PUMP ON								
1504							/		80 = DTW
1507	PUMP		OFF / WELL		DRY		/		
				WILL BAILER SAMPLE			/		
				AFTER 80% RECOVERY					
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ _____ Hrs

PUMP OFF @ _____ Hrs

GALLONS PURGED _____

CASING VOLS. PURGED _____

AVERAGE Q: _____ GPM

FINAL PURGE PUMPING WL _____ ft @ _____ Hrs

START SAMPLING @ _____ Hrs

STOP SAMPLING @ _____ Hrs

WEATHER CONDITIONS

TIME 1455 TEMP 90

SKIES clear

WIND (mph) 5 from

AIR MONITORING PID / FID (ppm)

VAULT ~ BKGD _____

BREATHING ZONE _____

DISCHARGE WATER _____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID

DUP / MS/MSD / TB / FB Y N

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / (BUCKET)

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

Verified by: _____ Date: _____

2"

WELL ID: MW 62-A (QA)

Page ___ of ___

Date: 4-27-96

TD OF CASING 45.0 ft

STATIC DTW (-) 8.40 ft @ 1305 hr

FT WATER (=) 36.6

SAMPLE PUMP INTAKE @ ___ ft

SCREEN INTERVAL: 39 - 41 ft

SPURGE PUMP: ___ (hp) ___ (volts) 30 (amps)

Team No: ___

Samplers' Initials: LJP, WMC, ENA

CAP OF CASING (x) ~~0.02~~ gal / ft (=) 6.00 gal / 1 CASING VOL (x3 =) 18.0 gal / 3 CASING VOL (+) INIT FLOWMETER READING 899646 (=) 899826 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1314	PUMP ON			899646					
1316	23.1	.258	7.42	899657	2.9	0.48	2.9 / 2	1.45	18. = DTW
1317	21.7	.309	7.33	899681	3.5	0.58	0.9 / 1	0.90	22.5 DTW
1320	22.0	.262	7.28	899700	5.4	0.9	1.9 / 3	0.63	25.3 gasp.
1324	22.4	.237	7.27	899732	7.8	1.3	2.4 / 4	0.60	26.3 dark-dirty
1328	22.8	.234	7.23	899745	9.9	1.65	2.1 / 4	0.53	26.6 clearing
1333	22.7	.236	7.19	899777	12.7	2.11	2.8 / 5	0.56	28:05 - 28.9 clear
1339	22.5	.227	7.20	899810	16.4	2.7	3.7 / 6	0.61	29.55 = DTW
1342	22.7	.257	7.23	899827	18.1	3.02	1.7 / 3	0.57	
1343	Start Sampling						/		
1345	Stop Sampling						/		
1345	pump off			899833	18.7	3.13	0.6 / 2	0.2	
							/		
							/		

PUMP ON @ 1314 Hrs

PUMP OFF @ 1345 Hrs

GALLONS PURGED 18.7

CASING VOLS. PURGED 3.12

AVERAGE Q: 0.60 GPM

FINAL PURGE PUMPING WL 29.55 ft @ 1340 Hrs

START SAMPLING @ 1343 Hrs

STOP SAMPLING @ ___ Hrs

WEATHER CONDITIONS

TIME 1310 TEMP 89

SKIES clear

WIND (mph) 10 from SW

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD ___

BREATHING ZONE ___

DISCHARGE WATER ___

HEALTH & SAFETY EQUIPMENT

(GLOVES) GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL VOA / HCl

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pH 7.0 = 7.43 @ 28.2°C control box = 150 - 160.

Verified by: ___ Date: ___

WELL ID: MW-66 (QA)

Page ____ of ____

Date: 4.26.96

TD OF CASING 50 ft

STATIC DTW (-) 17.90 ft @ 1458 hr

FT WATER (-) 32.1

SAMPLE PUMP INTAKE @ ____ ft

SCREEN INTERVAL: 37 - 48 ft

SPURGE PUMP: ____ (hp) ____ (volts) 30 (amps)

Team No: ____

Samplers' Initials: LJB, WJC, EM

CAP OF CASING (x) 1.02 gal / ft (=) 7.76 gal / 1 CASING VOL (x3 =) 23.3 gal / 3 CASING VOL (+) INIT FLOWMETER READING 89592.5 (=) 89615.8 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1501	PUMP ON			89592.5					
1503	26.0	.306	7.61	89594.2	1.7	0.21	1.7 / 2	0.85	29.2 = DTW
1506	21.9	.349	7.66	89597.3	4.8	0.62	3.1 / 3	1.03	30.15 = DTW
1509	21.6	.386	7.71	89600.5	8.0	1.03	3.2 / 3	1.06	30.50 = DTW
1515	21.6	.380	7.70	89607.0	14.5	1.88	6.5 / 6	1.08	35.55 = DTW
1521	21.5	.380	7.81	89613.5	21.0	2.71	6.5 / 6	1.08	35.9
1524	21.5	384	7.81	89616.8	24.3	3.13	3.3 / 3	1.1	36.11
1525	Start sampling						/		
1526	stop sampling						/		
1527	pump off			89618.1	25.6	3.30	1.3 / 3	0.43	
							/		
							/		
							/		
							/		

PUMP ON @ 1501 Hrs

PUMP OFF @ 1527 Hrs

GALLONS PURGED 25.6

CASING VOLS. PURGED 3.30

AVERAGE Q: 0.98 GPM

FINAL PURGE PUMPING WL 36.11 ft @ 1524 Hrs

START SAMPLING @ 1525 Hrs

STOP SAMPLING @ ____ Hrs

WEATHER CONDITIONS

TIME 1455 TEMP 47

SKIES Clear

WIND (mph) 15 from SE

AIR MONITORING PID / FID (ppm)

VAULT 0 BKGD ____

BREATHING ZONE ____

DISCHARGE WATER ____

HEALTH & SAFETY EQUIPMENT

(GLOVES) / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
8010	3	40mL VOA / HCL

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pump control = 225

Verified by: ____ Date: ____

2" dia

WELL ID: OW-3 (QA)

: ____ of ____

Date: 4.26.96

TD OF CASING 70 ft

STATIC DTW (-) 17.42 ft @ 1604 hr

FT WATER (=) 52.58

SAMPLE PUMP INTAKE @ _____ ft

SCREEN INTERVAL: 44.0 - 56.0 ft

SPURGE PUMP: _____ (hp) _____ (volts) 30 (amps)

Team No: _____

Samplers' Initials: LJB, EVA, WHC

CAP OF CASING (x) 1.02 gal / ft (=) 12.72 gal / 1 CASING VOL (x3 =) 38.2 gal / 3 CASING VOL (+) INIT FLOWMETER READING 89618.9 (-) 89655.1 TARGET

TIME	FIELD PARAMETERS T°C	EC	pH	VOLUME ( ) TOTALIZER FLOWMETER READING	( ) APPROX. GALS PURGED	APPROX. CASING VOLS PURGED	DISCHARGE RATE VOLUME / TIME (min)	Q (GPM)	NOTES (Color, odor, sand & silt content & other characteristics of the discharge water)
1613	PUMP ON			89655.1					
1614	25.7	.222	7.32	89662.2			/		35.0 = DTW
1615	21.8	.244	7.28	89625.8			/		60 = DTW
	pumped dry. will sample when recharged						/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

PUMP ON @ 1613 Hrs

PUMP OFF @ _____ Hrs

GALLONS PURGED _____

CASING VOLS. PURGED _____

AVERAGE Q: _____ GPM

FINAL PURGE PUMPING WL

_____ ft @ _____ Hrs

START SAMPLING @ _____ Hrs

STOP SAMPLING @ _____ Hrs

WEATHER CONDITIONS

TIME 1602 TEMP 97

SKIES clear

WIND (mph) 5 from E

AIR MONITORING PID / FID (ppm)

VAULT _____ BKGD _____

BREATHING ZONE _____

DISCHARGE WATER _____

HEALTH & SAFETY EQUIPMENT

GLOVES / GOGGLES / HARDHAT

RESPIRATORS / TYVEK / VEST

SAMPLE COLLECTION

ANALYSIS	QUANTITY	CONTAINER / ACID
3	8010	40mL VOA / HCL

DUP / MS/MSD / TB / FB Y (N)

If "Y", complete appropriate forms

MEASUREMENT METHOD: FLOWMETER / BUCKET

OTHER NOTES & COMMENTS:

(Factors possibly affecting samples, condition of sampling equipment, etc.)

pH 7.0 : 7.33 ; SAMPLES ON 4/27/96 @ 1170 ; DTW = 17.50

Verified by: _____ Date: _____

APPENDIX B

LABORATORY DATA AND CHAIN-OF-CUSTODY RECORDS

BCA

B C Analytical

May 20, 1996

Mr. Masood Choudhury
Lockheed Martin Corporation
2550 North Hollywood Way, Suite 506
Burbank, California 91505

RE: Beaumont Site Data

Dear Mr. Choudhury:

Please find enclosed electronic data deliverables for the Beaumont site. This diskette contains the results and quality assurance data for B C Analytical orders G96-04-549 and G96-04-607. The format is in accordance with project guidelines. If changes or additional data is needed, please call me at 818/247-5737.

Additionally, an amended report for G96-04-607 has been issued. The original report was lacking a chloroform result for well MW-57A (G96-04-607-25).

Very truly yours,

Larry Lem
Project Manager, BCA

LL:lah
Enclosures

B C Analytical

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

ANALYTICAL REPORT

AMENDED REPORT

MAY 20 1996

LOG NO: G96-04-607

Received: 29 APR 96
Mailed : 09 MAY 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Srvcs
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Purchase Order: 00ETS0487-3

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-2	MW-41	27 APR 96
04-607-3	MW-41-FD	27 APR 96
04-607-5	MW-33	27 APR 96
04-607-6	OW-03	27 APR 96
04-607-7	MW-62A	27 APR 96

PARAMETER	04-607-2	04-607-3	04-607-5	04-607-6	04-607-7
Halocarbons (8010)					
Date Analyzed	05/07/96	05/07/96	05/04/96	05/04/96	05/04/96
Date Confirmed	05/07/96	05/07/96	05/04/96	05/04/96	05/04/96
Dilution Factor, Times	2.5	1	2	1	2
1,1,1-Trichloroethane, ug/L	4.8	5.4	4.0	3.4	9.6
1,1,2,2-Tetrachloroethane, ug/L	<2	<0.5	<1	<0.5	<1
1,1,2-Trichloroethane, ug/L	<2	<0.5	<1	<0.5	<1
1,1-Dichloroethane, ug/L	<2	2.2	1.5	<0.5	1.8
1,1-Dichloroethene, ug/L	110	110	99	23	120
1,2-Dichloroethane, ug/L	<2	<0.5	<1	<0.5	<1
1,2-Dichlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
1,2-Dichloropropane, ug/L	<2	<0.5	<1	<0.5	<1
1,3-Dichlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
1,4-Dichlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
Bromodichloromethane, ug/L	<2	<0.5	<1	<0.5	<1
Bromomethane, ug/L	<2	<0.5	<1	<0.5	<1
Bromoform, ug/L	<2	<0.5	<1	<0.5	<1
Chlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
Carbon Tetrachloride, ug/L	<2	1.2	<1	<0.5	<1
Chloroethane, ug/L	<2	<0.5	<1	<0.5	<1
Chloroform, ug/L	2.8	3.4	4.6	1.1	3.6
Chloromethane, ug/L	<2	<0.5	<1	<0.5	<1
Dibromochloromethane, ug/L	<2	<0.5	<1	<0.5	<1
Freon 113, ug/L	<2	<0.5	<1	<0.5	<1

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Lockheed Martin, Environmental Technical Srvcs
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Purchase Order: 00ETS0487-3

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-2	MW-41	27 APR 96
04-607-3	MW-41-FD	27 APR 96
04-607-5	MW-33	27 APR 96
04-607-6	OW-03	27 APR 96
04-607-7	MW-62A	27 APR 96

PARAMETER	04-607-2	04-607-3	04-607-5	04-607-6	04-607-7
Methylene chloride, ug/L	<5	<2	<4	<2	<4
Trichloroethene, ug/L	110	110	90	34	100
Trichlorofluoromethane, ug/L	<2	<0.5	<1	<0.5	<1
Tetrachloroethene, ug/L	<2	<0.5	<1	<0.5	<1
Vinyl chloride, ug/L	<2	<0.5	<1	<0.5	<1
cis-1,2-Dichloroethene, ug/L	<2	<0.5	<1	<0.5	<1
cis-1,3-Dichloropropene, ug/L	<2	<0.5	<1	<0.5	<1
trans-1,2-Dichloroethene, ug/L	<2	<0.5	<1	<0.5	<1
trans-1,3-Dichloropropene, ug/L	<2	<0.5	<1	<0.5	<1
Surrogates **					
Bromochloromethane Reported, ug/L	130	52.0	98.8	50.3	92.4
Bromochloromethane Theoretical, ug/L	125	50.0	100	50.0	100

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-8	MW-50	27 APR 96
04-607-9	MW-17	28 APR 96
04-607-10	MW-19	28 APR 96
04-607-15	MW-10	25 APR 96
04-607-16	MW-07	25 APR 96

PARAMETER	04-607-8	04-607-9	04-607-10	04-607-15	04-607-16
Halocarbons (8010)					
Date Analyzed	05/04/96	05/04/96	05/03/96	05/07/96	05/07/96
Date Confirmed	05/04/96	05/04/96	05/03/96	05/07/96	05/07/96
Dilution Factor, Times	1	1	1	1	1
1,1,1-Trichloroethane, ug/L	0.64	8.9	3.4	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	<0.5	2.8	<0.5	<0.5
1,1-Dichloroethene, ug/L	2.3	18	18	1.5	0.70
1,2-Dichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-8	MW-50	27 APR 96
04-607-9	MW-17	28 APR 96
04-607-10	MW-19	28 APR 96
04-607-15	MW-10	25 APR 96
04-607-16	MW-07	25 APR 96

PARAMETER	04-607-8	04-607-9	04-607-10	04-607-15	04-607-16
Freon 113, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride, ug/L	<2	<2	<2	<2	<2
Trichloroethene, ug/L	3.4	13	7.1	1.5	0.87
Trichlorofluoromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	50.7	54.3	46.0	55.4	51.6
Bromochloromethane Theoretical, ug/L	50.0	50.0	50.0	50.0	50.0

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-17	MW-55	25 APR 96
04-607-19	MW-04	26 APR 96
04-607-20	EW-17	26 APR 96
04-607-21	EW-02	26 APR 96
04-607-22	MW-11	26 APR 96

PARAMETER	04-607-17	04-607-19	04-607-20	04-607-21	04-607-22
Halocarbons (8010)					
Date Analyzed	05/03/96	05/07/96	05/07/96	05/03/96	05/03/96
Date Confirmed	05/03/96	05/07/96	05/07/96	05/03/96	05/03/96
Dilution Factor, Times	2	2	10	2	1
1,1,1-Trichloroethane, ug/L	19	9.9	28	10	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<1	<1	<5	<1	<0.5
1,1,2-Trichloroethane, ug/L	<1	<1	<5	<1	<0.5
1,1-Dichloroethane, ug/L	3.4	2.2	13	2.7	<0.5
1,1-Dichloroethene, ug/L	130	160	690	140	<0.5
1,2-Dichloroethane, ug/L	3.9	1.3	26	<1	<0.5
1,2-Dichlorobenzene, ug/L	<1	<1	<5	<1	<0.5
1,2-Dichloropropane, ug/L	<1	<1	<5	<1	<0.5
1,3-Dichlorobenzene, ug/L	<1	<1	<5	<1	<0.5
1,4-Dichlorobenzene, ug/L	<1	<1	<5	<1	<0.5
Bromodichloromethane, ug/L	<1	<1	<5	<1	<0.5
Bromomethane, ug/L	<1	<1	<5	<1	<0.5
Bromoform, ug/L	<1	<1	<5	<1	<0.5
Chlorobenzene, ug/L	<1	<1	<5	<1	<0.5
Carbon Tetrachloride, ug/L	<1	<1	<5	<1	<0.5
Chloroethane, ug/L	<1	<1	<5	<1	<0.5
Chloroform, ug/L	<1	1.6	<5	3.8	<0.5
Chloromethane, ug/L	<1	<1	<5	<1	<0.5
Dibromochloromethane, ug/L	<1	<1	<5	<1	<0.5

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04-607-17	MW-55	25 APR 96
04-607-19	MW-04	26 APR 96
04-607-20	EW-17	26 APR 96
04-607-21	EW-02	26 APR 96
04-607-22	MW-11	26 APR 96

PARAMETER	04-607-17	04-607-19	04-607-20	04-607-21	04-607-22
Freon 113, ug/L	<1	<1	<5	<1	<0.5
Methylene chloride, ug/L	<4	<4	<20	<4	<2
Trichloroethene, ug/L	95	130	360	130	<0.5
Trichlorofluoromethane, ug/L	<1	<1	<5	<1	<0.5
Tetrachloroethene, ug/L	<1	<1	<5	<1	<0.5
Vinyl chloride, ug/L	<1	<1	<5	<1	<0.5
cis-1,2-Dichloroethene, ug/L	<1	<1	<5	<1	<0.5
cis-1,3-Dichloropropene, ug/L	<1	<1	<5	<1	<0.5
trans-1,2-Dichloroethene, ug/L	<1	<1	<5	<1	<0.5
trans-1,3-Dichloropropene, ug/L	<1	<1	<5	<1	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	95.2	103	506	92.6	56.3
Bromochloromethane Theoretical, ug/L	100	100	500	100	50.0

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-23	MW-66	26 APR 96
04-607-24	MW-06	27 APR 96
04-607-25	MW-57A	28 APR 96
04-607-26	MW-56A	28 APR 96
04-607-27	MW-56C	28 APR 96

PARAMETER	04-607-23	04-607-24	04-607-25	04-607-26	04-607-27
Halocarbons (8010)					
Date Analyzed	05/03/96	05/03/96	05/06/96	05/06/96	05/06/96
Date Confirmed	05/03/96	05/03/96	05/06/96	05/06/96	05/06/96
Dilution Factor, Times	5	1	1	1	1
1,1,1-Trichloroethane, ug/L	9.5	<0.5	9.3	<0.5	9.8
1,1,2,2-Tetrachloroethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<3	<0.5	1.5	<0.5	2.0
1,1-Dichloroethene, ug/L	220	3.1	65	0.71	79
1,2-Dichloroethane, ug/L	<3	<0.5	1.4	<0.5	1.5
1,2-Dichlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Bromomethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Bromoform, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Chloroethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Chloroform, ug/L	7.4	<0.5	<0.5	<0.5	0.61
Chloromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5

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LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-23	MW-66	26 APR 96
04-607-24	MW-06	27 APR 96
04-607-25	MW-57A	28 APR 96
04-607-26	MW-56A	28 APR 96
04-607-27	MW-56C	28 APR 96

PARAMETER	04-607-23	04-607-24	04-607-25	04-607-26	04-607-27
Freon 113, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Methylene chloride, ug/L	<10	<2	<2	<2	<2
Trichloroethene, ug/L	160	3.3	57	1.4	71
Trichlorofluoromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Vinyl chloride, ug/L	<3	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	235	51.2	50.1	52.5	52.4
Bromochloromethane Theoretical, ug/L	250	50.0	50.0	50.0	50.0

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-28	MW-51	28 APR 96
04-607-29	MW-67	28 APR 96
04-607-30	MW-58D	28 APR 96
04-607-31	MW-58D-FD	28 APR 96
04-607-32	MW-49	28 APR 96

PARAMETER	04-607-28	04-607-29	04-607-30	04-607-31	04-607-32
Halocarbons (8010)					
Date Analyzed	05/06/96	05/07/96	05/07/96	05/03/96	05/06/96
Date Confirmed	05/06/96	05/07/96	05/07/96	05/03/96	05/06/96
Dilution Factor, Times	1	1	2	1	1
1,1,1-Trichloroethane, ug/L	13	7.5	7.1	8.7	2.0
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,1-Dichloroethane, ug/L	0.92	1.5	1.3	1.9	<0.5
1,1-Dichloroethene, ug/L	46	74	76	89	8.9
1,2-Dichloroethane, ug/L	<0.5	0.96	<1	1.2	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Chloroform, ug/L	1.4	0.83	<1	1.4	<0.5
Chloromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5

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04-607-28	MW-51	28 APR 96
04-607-29	MW-67	28 APR 96
04-607-30	MW-58D	28 APR 96
04-607-31	MW-58D-FD	28 APR 96
04-607-32	MW-49	28 APR 96

PARAMETER	04-607-28	04-607-29	04-607-30	04-607-31	04-607-32
Freon 113, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Methylene chloride, ug/L	<2	<2	<4	<2	<2
Trichloroethene, ug/L	43	73	71	82	11
Trichlorofluoromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5	<1	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	54.0	52.9	95.6	50.7	56.0
Bromochloromethane Theoretical, ug/L	50.0	50.0	100	50.0	50.0

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LOG NO: G96-04-607

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Burbank, CA 91505

Purchase Order: 00ETS0487-3

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-33	MW-52	28 APR 96
04-607-34	MW-45	26 APR 96

PARAMETER	04-607-33	04-607-34
Halocarbons (8010)		
Date Analyzed	05/07/96	05/06/96
Date Confirmed	05/07/96	05/06/96
Dilution Factor, Times	1	1
1,1,1-Trichloroethane, ug/L	6.5	5.3
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5
1,1-Dichloroethane, ug/L	1.0	1.3
1,1-Dichloroethene, ug/L	64	31
1,2-Dichloroethane, ug/L	0.61	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5
Chloroform, ug/L	0.69	<0.5
Chloromethane, ug/L	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5
Freon 113, ug/L	<0.5	<0.5
Methylene chloride, ug/L	<2	<2
Trichloroethene, ug/L	59	26

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-33	MW-52	28 APR 96
04-607-34	MW-45	26 APR 96

PARAMETER	04-607-33	04-607-34
Trichlorofluoromethane, ug/L	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5
Surrogates **		
Bromochloromethane Reported, ug/L	51.2	49.3
Bromochloromethane Theoretical, ug/L	50.0	50.0

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-1	MW-41-FB	27 APR 96
04-607-4	MW-41-EB	27 APR 96
04-607-11	MW-58D-FB	28 APR 96
04-607-12	MW-58D-EB	28 APR 96
04-607-13	LTB042596-1	25 APR 96

PARAMETER	04-607-1	04-607-4	04-607-11	04-607-12	04-607-13
Halocarbons (8010)					
Date Analyzed	05/06/96	05/07/96	05/07/96	05/03/96	05/07/96
Date Confirmed	05/06/96	05/07/96	05/07/96	05/03/96	05/07/96
Dilution Factor, Times	1	1	1	1	1
1,1,1-Trichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-1	MW-41-FB	27 APR 96
04-607-4	MW-41-EB	27 APR 96
04-607-11	MW-58D-FB	28 APR 96
04-607-12	MW-58D-EB	28 APR 96
04-607-13	LTB042596-1	25 APR 96

PARAMETER	04-607-1	04-607-4	04-607-11	04-607-12	04-607-13
Freon 113, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride, ug/L	<2	<2	<2	<2	<2
Trichloroethene, ug/L	<0.5	0.87	<0.5	<0.5	<0.5
Trichlorofluoromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	49.6	54.8	58.0	50.9	56.3
Bromochloromethane Theoretical, ug/L	50.0	50.0	50.0	50.0	50.0

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-14	MW-10-FB	25 APR 96
04-607-18	MW-04-FB	26 APR 96

PARAMETER	04-607-14	04-607-18
Halocarbons (8010)		
Date Analyzed	05/07/96	05/07/96
Date Confirmed	05/07/96	05/07/96
Dilution Factor, Times	1	1
1,1,1-Trichloroethane, ug/L	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	<0.5
1,1-Dichloroethene, ug/L	<0.5	<0.5
1,2-Dichloroethane, ug/L	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5
Freon 113, ug/L	<0.5	<0.5
Methylene chloride, ug/L	<2	<2
Trichloroethene, ug/L	<0.5	<0.5

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-14	MW-10-FB	25 APR 96
04-607-18	MW-04-FB	26 APR 96

PARAMETER	04-607-14	04-607-18
Trichlorofluoromethane, ug/L	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5
Surrogates **		
Bromochloromethane Reported, ug/L	56.7	52.6
Bromochloromethane Theoretical, ug/L	50.0	50.0

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REPORT OF ANALYTICAL RESULTS

Samples MW-41 and MW-58D were reported using a diluted run due to spiking compounds being over calibration range.
Results for the following compounds are from straight undiluted runs that were not reported.

MW-41: 1,1-Dichloroethane @ 2.7 ug/L
Carbon Tetrachloride @ 1.7 ug/L

MW-58D: 1,1-Dichloroethane @ 1.5 ug/L
1,2-Dichloroethane @ 1.1 ug/L

AMENDED REPORT:
Chloroform result added to MW-57A (G96-04-607-25).
(L. Lem 5/96)

Greta Galoustian, Laboratory Director

B C Analytical

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ANALYTICAL REPORT

L.E.S.A.T. B.P.O.

DATE REC'D. 5-10-96

WBS # 211

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Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-2	MW-41	27 APR 96
04-607-3	MW-41-FD	27 APR 96
04-607-5	MW-33	27 APR 96
04-607-6	OW-03	27 APR 96
04-607-7	MW-62A	27 APR 96

PARAMETER	04-607-2	04-607-3	04-607-5	04-607-6	04-607-7
Halocarbons (8010)					
Date Analyzed	05/07/96	05/07/96	05/04/96	05/04/96	05/04/96
Date Confirmed	05/07/96	05/07/96	05/04/96	05/04/96	05/04/96
Dilution Factor, Times	2.5	1	2	1	2
1,1,1-Trichloroethane, ug/L	4.8	5.4	4.0	3.4	9.6
1,1,2,2-Tetrachloroethane, ug/L	<2	<0.5	<1	<0.5	<1
1,1,2-Trichloroethane, ug/L	<2	<0.5	<1	<0.5	<1
1,1-Dichloroethane, ug/L	<2	2.2	1.5	<0.5	1.8
1,1-Dichloroethene, ug/L	110	110	99	23	120
1,2-Dichloroethane, ug/L	<2	<0.5	<1	<0.5	<1
1,2-Dichlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
1,2-Dichloropropane, ug/L	<2	<0.5	<1	<0.5	<1
1,3-Dichlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
1,4-Dichlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
Bromodichloromethane, ug/L	<2	<0.5	<1	<0.5	<1
Bromomethane, ug/L	<2	<0.5	<1	<0.5	<1
Bromoform, ug/L	<2	<0.5	<1	<0.5	<1
Chlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
Carbon Tetrachloride, ug/L	<2	1.2	<1	<0.5	<1
Chloroethane, ug/L	<2	<0.5	<1	<0.5	<1
Chloroform, ug/L	2.8	3.4	4.6	1.1	3.6
Chloromethane, ug/L	<2	<0.5	<1	<0.5	<1
Dibromochloromethane, ug/L	<2	<0.5	<1	<0.5	<1
Freon 113, ug/L	<2	<0.5	<1	<0.5	<1

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Project: BEAUMONT#1

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LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-2	MW-41	27 APR 96
04-607-3	MW-41-FD	27 APR 96
04-607-5	MW-33	27 APR 96
04-607-6	OW-03	27 APR 96
04-607-7	MW-62A	27 APR 96

PARAMETER	04-607-2	04-607-3	04-607-5	04-607-6	04-607-7
Methylene chloride, ug/L	<5	<2	<4	<2	<4
Trichloroethene, ug/L	110	110	90	34	100
Trichlorofluoromethane, ug/L	<2	<0.5	<1	<0.5	<1
Tetrachloroethene, ug/L	<2	<0.5	<1	<0.5	<1
Vinyl chloride, ug/L	<2	<0.5	<1	<0.5	<1
cis-1,2-Dichloroethene, ug/L	<2	<0.5	<1	<0.5	<1
cis-1,3-Dichloropropene, ug/L	<2	<0.5	<1	<0.5	<1
trans-1,2-Dichloroethene, ug/L	<2	<0.5	<1	<0.5	<1
trans-1,3-Dichloropropene, ug/L	<2	<0.5	<1	<0.5	<1
Surrogates **					
Bromochloromethane Reported, ug/L	130	52.0	98.8	50.3	92.4
Bromochloromethane Theoretical, ug/L	125	50.0	100	50.0	100

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-8	MW-50	27 APR 96
04-607-9	MW-17	28 APR 96
04-607-10	MW-19	28 APR 96
04-607-15	MW-10	25 APR 96
04-607-16	MW-07	25 APR 96

PARAMETER	04-607-8	04-607-9	04-607-10	04-607-15	04-607-16
Halocarbons (8010)					
Date Analyzed	05/04/96	05/04/96	05/03/96	05/07/96	05/07/96
Date Confirmed	05/04/96	05/04/96	05/03/96	05/07/96	05/07/96
Dilution Factor, Times	1	1	1	1	1
1,1,1-Trichloroethane, ug/L	0.64	8.9	3.4	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	<0.5	2.8	<0.5	<0.5
1,1-Dichloroethene, ug/L	2.3	18	18	1.5	0.70
1,2-Dichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-8	MW-50	27 APR 96
04-607-9	MW-17	28 APR 96
04-607-10	MW-19	28 APR 96
04-607-15	MW-10	25 APR 96
04-607-16	MW-07	25 APR 96

PARAMETER	04-607-8	04-607-9	04-607-10	04-607-15	04-607-16
Freon 113, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride, ug/L	<2	<2	<2	<2	<2
Trichloroethene, ug/L	3.4	13	7.1	1.5	0.87
Trichlorofluoromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	50.7	54.3	46.0	55.4	51.6
Bromochloromethane Theoretical, ug/L	50.0	50.0	50.0	50.0	50.0

B C Analytical

801 Western Avenue
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LOG NO: G96-04-607

Received: 29 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-17	MW-55	25 APR 96
04-607-19	MW-04	26 APR 96
04-607-20	EW-17	26 APR 96
04-607-21	EW-02	26 APR 96
04-607-22	MW-11	26 APR 96

PARAMETER	04-607-17	04-607-19	04-607-20	04-607-21	04-607-22
Halocarbons (8010)					
Date Analyzed	05/03/96	05/07/96	05/07/96	05/03/96	05/03/96
Date Confirmed	05/03/96	05/07/96	05/07/96	05/03/96	05/03/96
Dilution Factor, Times	2	2	10	2	1
1,1,1-Trichloroethane, ug/L	19	9.9	28	10	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<1	<1	<5	<1	<0.5
1,1,2-Trichloroethane, ug/L	<1	<1	<5	<1	<0.5
1,1-Dichloroethane, ug/L	3.4	2.2	13	2.7	<0.5
1,1-Dichloroethene, ug/L	130	160	690	140	<0.5
1,2-Dichloroethane, ug/L	3.9	1.3	26	<1	<0.5
1,2-Dichlorobenzene, ug/L	<1	<1	<5	<1	<0.5
1,2-Dichloropropane, ug/L	<1	<1	<5	<1	<0.5
1,3-Dichlorobenzene, ug/L	<1	<1	<5	<1	<0.5
1,4-Dichlorobenzene, ug/L	<1	<1	<5	<1	<0.5
Bromodichloromethane, ug/L	<1	<1	<5	<1	<0.5
Bromomethane, ug/L	<1	<1	<5	<1	<0.5
Bromoform, ug/L	<1	<1	<5	<1	<0.5
Chlorobenzene, ug/L	<1	<1	<5	<1	<0.5
Carbon Tetrachloride, ug/L	<1	<1	<5	<1	<0.5
Chloroethane, ug/L	<1	<1	<5	<1	<0.5
Chloroform, ug/L	<1	1.6	<5	3.8	<0.5
Chloromethane, ug/L	<1	<1	<5	<1	<0.5
Dibromochloromethane, ug/L	<1	<1	<5	<1	<0.5

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Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-17	MW-55	25 APR 96
04-607-19	MW-04	26 APR 96
04-607-20	EW-17	26 APR 96
04-607-21	EW-02	26 APR 96
04-607-22	MW-11	26 APR 96

PARAMETER	04-607-17	04-607-19	04-607-20	04-607-21	04-607-22
Freon 113, ug/L	<1	<1	<5	<1	<0.5
Methylene chloride, ug/L	<4	<4	<20	<4	<2
Trichloroethene, ug/L	95	130	360	130	<0.5
Trichlorofluoromethane, ug/L	<1	<1	<5	<1	<0.5
Tetrachloroethene, ug/L	<1	<1	<5	<1	<0.5
Vinyl chloride, ug/L	<1	<1	<5	<1	<0.5
cis-1,2-Dichloroethene, ug/L	<1	<1	<5	<1	<0.5
cis-1,3-Dichloropropene, ug/L	<1	<1	<5	<1	<0.5
trans-1,2-Dichloroethene, ug/L	<1	<1	<5	<1	<0.5
trans-1,3-Dichloropropene, ug/L	<1	<1	<5	<1	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	95.2	103	506	92.6	56.3
Bromochloromethane Theoretical, ug/L	100	100	500	100	50.0

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-23	MW-66	26 APR 96
04-607-24	MW-06	27 APR 96
04-607-25	MW-57A	28 APR 96
04-607-26	MW-56A	28 APR 96
04-607-27	MW-56C	28 APR 96

PARAMETER	04-607-23	04-607-24	04-607-25	04-607-26	04-607-27
Halocarbons (8010)					
Date Analyzed	05/03/96	05/03/96	05/06/96	05/06/96	05/06/96
Date Confirmed	05/03/96	05/03/96	05/06/96	05/06/96	05/06/96
Dilution Factor, Times	5	1	1	1	1
1,1,1-Trichloroethane, ug/L	9.5	<0.5	9.3	<0.5	9.8
1,1,2,2-Tetrachloroethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<3	<0.5	1.5	<0.5	2.0
1,1-Dichloroethene, ug/L	220	3.1	65	0.71	79
1,2-Dichloroethane, ug/L	<3	<0.5	1.4	<0.5	1.5
1,2-Dichlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Bromomethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Bromoform, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Chloroethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Chloroform, ug/L	7.4	<0.5		<0.5	0.61
Chloromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5

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2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-23	MW-66	26 APR 96
04-607-24	MW-06	27 APR 96
04-607-25	MW-57A	28 APR 96
04-607-26	MW-56A	28 APR 96
04-607-27	MW-56C	28 APR 96

PARAMETER	04-607-23	04-607-24	04-607-25	04-607-26	04-607-27
Freon 113, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Methylene chloride, ug/L	<10	<2	<2	<2	<2
Trichloroethene, ug/L	160	3.3	57	1.4	71
Trichlorofluoromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Vinyl chloride, ug/L	<3	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	235	51.2	50.1	52.5	52.4
Bromochloromethane Theoretical, ug/L	250	50.0	50.0	50.0	50.0

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-28	MW-51	28 APR 96
04-607-29	MW-67	28 APR 96
04-607-30	MW-58D	28 APR 96
04-607-31	MW-58D-FD	28 APR 96
04-607-32	MW-49	28 APR 96

PARAMETER	04-607-28	04-607-29	04-607-30	04-607-31	04-607-32
Halocarbons (8010)					
Date Analyzed	05/06/96	05/07/96	05/07/96	05/03/96	05/06/96
Date Confirmed	05/06/96	05/07/96	05/07/96	05/03/96	05/06/96
Dilution Factor, Times	1	1	2	1	1
1,1,1-Trichloroethane, ug/L	13	7.5	7.1	8.7	2.0
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,1-Dichloroethane, ug/L	0.92	1.5	1.3	1.9	<0.5
1,1-Dichloroethene, ug/L	46	74	76	89	8.9
1,2-Dichloroethane, ug/L	<0.5	0.96	<1	1.2	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Chloroform, ug/L	1.4	0.83	<1	1.4	<0.5
Chloromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5

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Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-28	MW-51	28 APR 96
04-607-29	MW-67	28 APR 96
04-607-30	MW-58D	28 APR 96
04-607-31	MW-58D-FD	28 APR 96
04-607-32	MW-49	28 APR 96

PARAMETER	04-607-28	04-607-29	04-607-30	04-607-31	04-607-32
Freon 113, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Methylene chloride, ug/L	<2	<2	<4	<2	<2
Trichloroethene, ug/L	43	73	71	82	11
Trichlorofluoromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5	<1	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	54.0	52.9	95.6	50.7	56.0
Bromochloromethane Theoretical, ug/L	50.0	50.0	100	50.0	50.0

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-33	MW-52	28 APR 96
04-607-34	MW-45	26 APR 96

PARAMETER	04-607-33	04-607-34	
Halocarbons (8010)			
Date Analyzed	05/07/96	05/06/96	
Date Confirmed	05/07/96	05/06/96	
Dilution Factor, Times	1	1	
1,1,1-Trichloroethane, ug/L	6.5	5.3	
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	
1,1-Dichloroethane, ug/L	1.0	1.3	
1,1-Dichloroethene, ug/L	64	31	
1,2-Dichloroethane, ug/L	0.61	<0.5	
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	
1,2-Dichloropropane, ug/L	<0.5	<0.5	
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	
Bromodichloromethane, ug/L	<0.5	<0.5	
Bromomethane, ug/L	<0.5	<0.5	
Bromoform, ug/L	<0.5	<0.5	
Chlorobenzene, ug/L	<0.5	<0.5	
Carbon Tetrachloride, ug/L	<0.5	<0.5	
Chloroethane, ug/L	<0.5	<0.5	
Chloroform, ug/L	0.69	<0.5	
Chloromethane, ug/L	<0.5	<0.5	
Dibromochloromethane, ug/L	<0.5	<0.5	
Freon 113, ug/L	<0.5	<0.5	
Methylene chloride, ug/L	<2	<2	
Trichloroethene, ug/L	59	26	

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-33	MW-52	28 APR 96
04-607-34	MW-45	26 APR 96

PARAMETER	04-607-33	04-607-34
Trichlorofluoromethane, ug/L	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5
Surrogates **		
Bromochloromethane Reported, ug/L	51.2	49.3
Bromochloromethane Theoretical, ug/L	50.0	50.0

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-1	MW-41-FB	27 APR 96
04-607-4	MW-41-EB	27 APR 96
04-607-11	MW-58D-FB	28 APR 96
04-607-12	MW-58D-EB	28 APR 96
04-607-13	LTB042596-1	25 APR 96

PARAMETER	04-607-1	04-607-4	04-607-11	04-607-12	04-607-13
Halocarbons (8010)					
Date Analyzed	05/06/96	05/07/96	05/07/96	05/03/96	05/07/96
Date Confirmed	05/06/96	05/07/96	05/07/96	05/03/96	05/07/96
Dilution Factor, Times	1	1	1	1	1
1,1,1-Trichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5

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04-607-1	MW-41-FB	27 APR 96
04-607-4	MW-41-EB	27 APR 96
04-607-11	MW-58D-FB	28 APR 96
04-607-12	MW-58D-EB	28 APR 96
04-607-13	LTB042596-1	25 APR 96

PARAMETER	04-607-1	04-607-4	04-607-11	04-607-12	04-607-13
Freon 113, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride, ug/L	<2	<2	<2	<2	<2
Trichloroethene, ug/L	<0.5	0.87	<0.5	<0.5	<0.5
Trichlorofluoromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	49.6	54.8	58.0	50.9	56.3
Bromochloromethane Theoretical, ug/L	50.0	50.0	50.0	50.0	50.0

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Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-14	MW-10-FB	25 APR 96
04-607-18	MW-04-FB	26 APR 96

PARAMETER	04-607-14	04-607-18
Halocarbons (8010)		
Date Analyzed	05/07/96	05/07/96
Date Confirmed	05/07/96	05/07/96
Dilution Factor, Times	1	1
1,1,1-Trichloroethane, ug/L	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	<0.5
1,1-Dichloroethene, ug/L	<0.5	<0.5
1,2-Dichloroethane, ug/L	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5
Freon 113, ug/L	<0.5	<0.5
Methylene chloride, ug/L	<2	<2
Trichloroethene, ug/L	<0.5	<0.5

B C Analytical

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

LOG NO: G96-04-607

Received: 29 APR 96
Mailed : 09 MAY 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

Samples MW-41 and MW-58D were reported using a diluted run due to spiking compounds being over calibration range.
Results for the following compounds are from straight undiluted runs that were not reported.

MW-41: 1,1-Dichloroethane @ 2.7 ug/L
Carbon Tetrachloride @ 1.7 ug/L

MW-58D: 1,1-Dichloroethane @ 1.5 ug/L
1,2-Dichloroethane @ 1.1 ug/L

(L. Lem 5/96)

Greta Galoustian, Laboratory Director

BCA Log Number [illegible]

Client name LSD MA LOCKHEED MARTIN

Project or PO# BEAUMONT #1

Address 2550 N. HOLLYWOOD WAY, SUITE 301

Phone # 818/847-0512

City, State, Zip BURBANK, CA 90505

Report attention MASOOD CHOUDHURY

Sampled by Larry Powell, Larry Powell for Neil Orrick, Wm. H. Cole

Analyses required

Lab sample number	Date sampled	Time sampled	Type* See key below	Sample description	Number of containers	8010								Hazardous sample Special handling required	Remarks
	4/27/96	1012	GW	MW-41-FB	3	X									COOL, HCL
	4/27/96	1022	↓	MW-41	6	X									MS/MSD, COOL, HCL
	4/27/96	1030	↓	MW-41-FD	3	X									COOL, HCL
	4/27/96	1045	↓	MW-41-EB	3	X									COOL, HCL
	4/27/96	0800	↓	MW-33	3	X									COOL, HCL
	4/27/96	1115	↓	OW-03	3	X									COOL, HCL
	4/27/96	1343	↓	MW-62A	3	X									COOL, HCL
	4/27/96	1626	↓	MW-50	3	X									COOL, HCL
	4/28/96	0800	↓	MW-17	3	X									COOL, HCL
	4/28/96	0815	↓	MW-19	3	X									COOL, HCL
	4/28/96	0710	↓	MW-58D-~~E~~ FB (LSP)	3	X									COOL, HCL
	4/28/96	0930	↓	MW-58D-EB	3	X									COOL, HCL

	Signature	Print Name	Company	Date	Time
Relinquished by	Larry J. Powell	LARRY J. POWELL	LESAT - BURBANK	4/27/96	1420
Received by	Susan Arrowsmith	S. ARROWSMITH	BCA	4/29/96	14:20
Relinquished by					
Received by					
Relinquished by					
Received by Laboratory					

ANALYTICAL

85 Shary Circle, Concord, CA 94518 (510) 825-3894
1 Western Avenue, Glendale, CA 91201 (818) 247-5737
00 Gene Autry Way, A[illegible] CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements ________

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil PE—Petroleum WW—Wastewater

2/3

Client name: LOCKHEED MARTIN

Project or PO#: BEAUMONT #1

Address: 2550 N. HOLLYWOOD WAY, SUITE 301

Phone #: 818/847-0012

City, State, Zip: BURBANK, CA 90505

Report attention: MASOOD CHOUDHURY

Sampled by: Larry Powell, Wm. H. Cole

Analyses required: 8010

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sample description	Number of containers	8010	Hazardous sample Special handling required	Remarks
	4/25/96	0900	GW	LTB042596-1	3	X		COOL, HCL
	4/25/96	1000	GW LTP ~~TB~~	MW-10-FB	3	X		COOL, HCL
	4/25/96	1012	GW	MW-10	3	X		COOL, HCL
	4/25/96	1205		MW-07	3	X		COOL, HCL
	4/25/96	1535		MW-55	3	X		COOL, HCL
	4/26/96	0835		MW-04-FB	3	X		COOL, HCL
	4/26/96	0853		MW-04	3	X		COOL, HCL
	4/26/96	1021		EW-17	3	X		EFFERVESCENT, HCL COOL
	4/26/96	1315		EW-02	3	X		COOL, HCL
	4/26/96	1411		MW-11	3	X		COOL, HCL
	4/26/96	1525		MW-66	3	X		COOL, HCL
	4/27/96	0905	↓	MW-06	3	X		COOL, HCL

	Signature	Print Name	Company	Date	Time
Relinquished by	Larry J Powell	LARRY J. POWELL	LESAT - BURBANK	4/29/96	1420
Received by	Susan Arrowsmith	S. ARROWSMITH	BCA	4/29/96	14:20
Relinquished by					
Received by					
Relinquished by					
Received by Laboratory					

C ANALYTICAL

085 Shary Circle, Concord, CA 94518 (510) 825-3894

01 Western Avenue, Glendale, CA 91201 (818) 247-5737

200 Gene Autry Way, A[illegible]im, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements: _____

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil PE—Petroleum WW—Wastewater

CHAIN OF CUSTODY RECORD

BCA Log Number 96046O7

Client name: LOCKHEED MARTIN
Project or PO#: BEAUMONT
Address: 2550 N. HOLLYWOOD WAY, SUITE 301
Phone #: 818/847-0512
City, State, Zip: BURBANK, CA 90505
Report attention: MASOOD CHOUDHURY

Analyses required: 8010; Hazardous sample / Special handling required

Lab Sample Number	Date sampled	Time sampled	Type* See key below	Sampled by: Wm. H. Cole, Larry Powell, Richard	Sample description	Number of containers	8010	Hazardous sample / Special handling required	Remarks
	4/28/96	1019	GW		MW-57A	3	X		COOL, HCL
	4/28/96	1132	GW		MW-56A	3	X		COOL, HCL
	4/28/96	1343	GW		MW-56C	3	X		COOL, HCL
	4/28/96	1550	GW		MW-51	3	X		COOL, HCL
	4/28/96	1500	GW		MW-67	3	X		COOL, HCL
	4/28/96	1600	GW		MW-58D	6	X		MS/MSD, COOL, HCL
	4/28/96	1620	GW		MW-58D-FD	3	X		COOL, HCL
	4/28/96	~~1524~~ 1721	GW		MW-49	3	X		COOL, HCL
	4/28/96	1833	GW		MW-52	3	X		EFFERVESCENT, COOL, HCL
	4/26/96	1115	GW		MW-45	3	X		COOL, HCL

	Signature	Print Name	Company	Date	Time
Relinquished by	Larry Powell	LARRY J. POWELL	LESAT - BURBANK	4/29/96	1420
Received by	Susan Arrowsmith	S. ARROWSMITH	BCA	4/29/96	14.20
Relinquished by					
Received by					
Relinquished by					
Received by Laboratory					

ANALYTICAL
085 Shary Circle, Concord, CA 94518 (510) 825-3864
01 Western Avenue, Gl[illegible]le, CA 91201 (818) 247-5737
200 Gene Autry Way, [illegible], CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements: _____

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil PE—Petroleum WW—Wastewater

B C Analytical

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

LEGAL ANALYTICAL REPORT

DATE REC'D 5-7-96

WBS # 40B

COPIES TO: Choudhury

COPY

LOG NO: G96-04-549

Received: 25 APR 96

Mailed: MAY - 6 1996

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-549-1	EW-01	22 APR 96
04-549-3	EW-16	23 APR 96
04-549-4	EW-13	23 APR 96
04-549-5	EW-18	23 APR 96
04-549-6	EW-15	23 APR 96

PARAMETER	04-549-1	04-549-3	04-549-4	04-549-5	04-549-6
Halocarbons (8010)					
Date Analyzed	04/30/96	05/01/96	05/01/96	05/01/96	05/01/96
Date Confirmed	04/30/96	05/01/96	05/01/96	05/01/96	05/01/96
Dilution Factor, Times	1	50	50	100	20
1,1,1-Trichloroethane, ug/L	7.3	41	95	140	36
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<30	<30	<50	<10
1,1,2-Trichloroethane, ug/L	<0.5	<30	<30	<50	<10
1,1-Dichloroethane, ug/L	1.6	<30	<30	69	26
1,1-Dichloroethene, ug/L	74	1600	2200	6800	1000
1,2-Dichloroethane, ug/L	1.4	<30	73	68	44
1,2-Dichlorobenzene, ug/L	<0.5	<30	<30	<50	<10
1,2-Dichloropropane, ug/L	<0.5	<30	<30	<50	<10
1,3-Dichlorobenzene, ug/L	<0.5	<30	<30	<50	<10
1,4-Dichlorobenzene, ug/L	<0.5	<30	<30	<50	<10
Bromodichloromethane, ug/L	<0.5	<30	<30	<50	<10
Bromomethane, ug/L	<0.5	<30	<30	<50	<10
Bromoform, ug/L	<0.5	<30	<30	<50	<10
Chlorobenzene, ug/L	<0.5	<30	<30	<50	<10
Carbon Tetrachloride, ug/L	<0.5	<30	<30	<50	<10
Chloroethane, ug/L	<0.5	<30	<30	<50	<10
Chloroform, ug/L	0.68	<30	<30	55	11
Chloromethane, ug/L	<0.5	<30	<30	<50	<10
Dibromochloromethane, ug/L	<0.5	<30	<30	<50	<10
Freon 113, ug/L	<0.5	<30	<30	<50	<10

B C Analytical

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

LOG NO: G96-04-549

Received: 25 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-549-1	EW-01	22 APR 96
04-549-3	EW-16	23 APR 96
04-549-4	EW-13	23 APR 96
04-549-5	EW-18	23 APR 96
04-549-6	EW-15	23 APR 96

PARAMETER	04-549-1	04-549-3	04-549-4	04-549-5	04-549-6
Methylene chloride, ug/L	<2	<100	<100	<200	<40
Trichloroethene, ug/L	69	1000	760	1200	310
Trichlorofluoromethane, ug/L	<0.5	<30	<30	<50	<10
Tetrachloroethene, ug/L	<0.5	<30	<30	<50	<10
Vinyl chloride, ug/L	<0.5	<30	<30	<50	<10
cis-1,2-Dichloroethene, ug/L	<0.5	<30	<30	<50	<10
cis-1,3-Dichloropropene, ug/L	<0.5	<30	<30	<50	<10
trans-1,2-Dichloroethene, ug/L	<0.5	<30	<30	<50	<10
trans-1,3-Dichloropropene, ug/L	<0.5	<30	<30	<50	<10
Surrogates **					
Bromochloromethane Reported, ug/L	48.1	2470	2300	4940	920
Bromochloromethane Theoretical, ug/L	50.0	2500	2500	5000	1000

B C Analytical

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2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-549-9	EW-12	24 APR 96
04-549-10	EW-12-FD	24 APR 96
04-549-11	MW-16	24 APR 96
04-549-12	MW-61B	24 APR 96
04-549-13	MW-26	24 APR 96

PARAMETER	04-549-9	04-549-10	04-549-11	04-549-12	04-549-13
Halocarbons (8010)					
Date Analyzed	04/30/96	04/30/96	05/01/96	05/01/96	05/01/96
Date Confirmed	04/30/96	04/30/96	05/01/96	05/01/96	05/01/96
Dilution Factor, Times	100	100	100	100	100
1,1,1-Trichloroethane, ug/L	150	140	140	92	170
1,1,2,2-Tetrachloroethane, ug/L	<50	<50	<50	<50	<50
1,1,2-Trichloroethane, ug/L	<50	<50	<50	<50	<50
1,1-Dichloroethane, ug/L	<50	<50	<50	<50	73
1,1-Dichloroethene, ug/L	3400	3100	3200	4300	3900
1,2-Dichloroethane, ug/L	68	75	78	60	140
1,2-Dichlorobenzene, ug/L	<50	<50	<50	<50	<50
1,2-Dichloropropane, ug/L	<50	<50	<50	<50	<50
1,3-Dichlorobenzene, ug/L	<50	<50	<50	<50	<50
1,4-Dichlorobenzene, ug/L	<50	<50	<50	<50	<50
Bromodichloromethane, ug/L	<50	<50	<50	<50	<50
Bromomethane, ug/L	<50	<50	<50	<50	<50
Bromoform, ug/L	<50	<50	<50	<50	<50
Chlorobenzene, ug/L	<50	<50	<50	<50	<50
Carbon Tetrachloride, ug/L	<50	<50	<50	<50	<50
Chloroethane, ug/L	<50	<50	<50	<50	<50
Chloroform, ug/L	<50	<50	<50	<50	<50
Chloromethane, ug/L	<50	<50	<50	<50	<50
Dibromochloromethane, ug/L	<50	<50	<50	<50	<50

B C Analytical

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LOG NO: G96-04-549

Received: 25 APR 96

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Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-549-9	EW-12	24 APR 96
04-549-10	EW-12-FD	24 APR 96
04-549-11	MW-16	24 APR 96
04-549-12	MW-61B	24 APR 96
04-549-13	MW-26	24 APR 96

PARAMETER	04-549-9	04-549-10	04-549-11	04-549-12	04-549-13
Freon 113, ug/L	<50	<50	<50	<50	<50
Methylene chloride, ug/L	<200	<200	<200	<200	<200
Trichloroethene, ug/L	790	730	750	790	2500
Trichlorofluoromethane, ug/L	<50	<50	<50	<50	<50
Tetrachloroethene, ug/L	<50	<50	<50	<50	<50
Vinyl chloride, ug/L	<50	<50	<50	<50	<50
cis-1,2-Dichloroethene, ug/L	<50	<50	<50	<50	<50
cis-1,3-Dichloropropene, ug/L	<50	<50	<50	<50	<50
trans-1,2-Dichloroethene, ug/L	<50	<50	<50	<50	<50
trans-1,3-Dichloropropene, ug/L	<50	<50	<50	<50	<50
Surrogates **					
Bromochloromethane Reported, ug/L	4600	4890	5330	4840	4660
Bromochloromethane Theoretical, ug/L	5000	5000	5000	5000	5000

B C Analytical

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LOG NO: G96-04-549

Received: 25 APR 96

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2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-549-14	MW-36	24 APR 96
04-549-15	MW-59B	25 APR 96

PARAMETER	04-549-14	04-549-15
Halocarbons (8010)		
Date Analyzed	05/01/96	05/01/96
Date Confirmed	05/01/96	05/01/96
Dilution Factor, Times	1	10
1,1,1-Trichloroethane, ug/L	<0.5	13
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<5
1,1,2-Trichloroethane, ug/L	<0.5	<5
1,1-Dichloroethane, ug/L	<0.5	12
1,1-Dichloroethene, ug/L	0.53	400
1,2-Dichloroethane, ug/L	<0.5	21
1,2-Dichlorobenzene, ug/L	<0.5	<5
1,2-Dichloropropane, ug/L	<0.5	<5
1,3-Dichlorobenzene, ug/L	<0.5	<5
1,4-Dichlorobenzene, ug/L	<0.5	<5
Bromodichloromethane, ug/L	<0.5	<5
Bromomethane, ug/L	<0.5	<5
Bromoform, ug/L	<0.5	<5
Chlorobenzene, ug/L	<0.5	<5
Carbon Tetrachloride, ug/L	<0.5	<5
Chloroethane, ug/L	<0.5	<5
Chloroform, ug/L	<0.5	<5
Chloromethane, ug/L	<0.5	<5
Dibromochloromethane, ug/L	<0.5	<5
Freon 113, ug/L	<0.5	<5
Methylene chloride, ug/L	<2	<20
Trichloroethene, ug/L	1.1	300

B C Analytical

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2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-549-14	MW-36	24 APR 96
04-549-15	MW-59B	25 APR 96

PARAMETER	04-549-14	04-549-15
Trichlorofluoromethane, ug/L	<0.5	<5
Tetrachloroethene, ug/L	<0.5	<5
Vinyl chloride, ug/L	<0.5	<5
cis-1,2-Dichloroethene, ug/L	<0.5	<5
cis-1,3-Dichloropropene, ug/L	<0.5	<5
trans-1,2-Dichloroethene, ug/L	<0.5	<5
trans-1,3-Dichloropropene, ug/L	<0.5	<5
Surrogates **		
Bromochloromethane Reported, ug/L	48.0	468
Bromochloromethane Theoretical, ug/L	50.0	500

B C Analytical

801 Western Avenue
ndale, CA 91201
3/247-5737
Fax: 818/247-9797

LOG NO: G96-04-549

Received: 25 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-549-2	EW-16-FB	23 APR 96
04-549-7	EW-12-EB	24 APR 96
04-549-8	EW-12-FB	24 APR 96
04-549-16	LTB 042296-1	22 APR 96

PARAMETER	04-549-2	04-549-7	04-549-8	04-549-16
Halocarbons (8010)				
Date Analyzed	04/30/96	04/30/96	04/30/96	04/30/96
Date Confirmed	04/30/96	04/30/96	04/30/96	04/30/96
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	<0.5	<0.5
1,1-Dichloroethene, ug/L	<0.5	15	<0.5	<0.5
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	<0.5	<0.5	<0.5

B C Analytical

801 Western Avenue
'ndale, CA 91201
8/247-5737
Fax: 818/247-9797

LOG NO: G96-04-549

Received: 25 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-549-2	EW-16-FB	23 APR 96
04-549-7	EW-12-EB	24 APR 96
04-549-8	EW-12-FB	24 APR 96
04-549-16	LTB 042296-1	22 APR 96

PARAMETER	04-549-2	04-549-7	04-549-8	04-549-16
Methylene chloride, ug/L	<2	<2	<2	<2
Trichloroethene, ug/L	<0.5	6.7	<0.5	<0.5
Trichlorofluoromethane, ug/L	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5
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	53.5	49.6	50.1	49.1
Bromochloromethane Theoretical, ug/L	50.0	50.0	50.0	50.0

B C Analytical

801 Western Avenue
'lendale, CA 91201
18/247-5737
Fax: 818/247-9797

LOG NO: G96-04-549

Received: 25 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

Dick Swenson, Laboratory Director

CHAIN OF CUSTODY RECORD

BCA Log Number [illegible]

Client name: LOCKHEED MARTIN
Project or PO#: BEAUMONT #1
Address: 2550 N. HOLLYWOOD WAY, SUITE 301
Phone #: 818/847-0512
City, State, Zip: BURBANK, CA 90505
Report attention: MASOOD CHOUDHURY
Sampled by: Larry Powell, Wm. G. Ca[illegible]

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sample description	Number of containers	EPA 8010							Hazardous sample Special handling required	Remarks
	4/22/96	1337	GW	LTB042296-1	3	X								
	4/22/96	1425	↓	EW-01	3	X								EFFERVESCENT
	4/23/96	1015		EW-16-FB	3	X								
	4/23/96	1020		EW-16	3	X								
	4/23/96	1515		EW-13	3	X								
	4/23/96	1528		EW-18	3	X								
	4/23/96	1605		EW-15	3	X								
	4/24/96	1035		EW-12-EB	3	X								
	4/24/96	1110		EW-12-FB	3	X								
	4/24/96	1121		EW-12	6	X								MS/MSD
	4/24/96	1130		EW-12-FD	3	X								
	4/24/96	0900	↓	MW-16	3	X								

	Signature	Print Name	Company	Date	Time
Relinquished by	Larry J Powell	LARRY J. POWELL	LESAT-BURBANK	4/25/96	1100
Received by	Marie E Nicholson	MARIAE NICHOLSON	BCA	4-25-95	11:08 AM
Relinquished by	Marie E Nicholson	MARIAE NICHOLSON	BCA	4-25-95	1:00 PM
Received by	Kieu Anh Pham	Kieu Anh Pham	BCA	4/25/96	1:00
Relinquished by					
Received by Laboratory					

B C ANALYTICAL
1085 Shary Circle, Concord, CA 94518 (510) 825-3894
801 Western Avenue, Glendale, CA 91201 (818) 247-5737
1200 Gene Autry Way, Anaheim, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements ______

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil PE—Petroleum WW—Wastewater

CHAIN OF CUSTODY RECORD

BCA Log Number _____

Client name: LOCKHEED MARTIN	Project or PO#: BEAUMONT #1
Address: 2550 N. HOLLYWOOD WAY, SUITE 301	Phone #: 818/847-0572
City, State, Zip: BURBANK, CA 90505	Report attention: MASOOD CHOUDHURY

Sampled by: Larry Powell, Wm. H. Cole

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sample description	Number of containers	Analyses required: 8010	Hazardous sample Special handling required	Remarks
	4/24/96	1200	GW	MW-61B	3	X		
	4/24/96	1430	"	MW-26	3	X		
	4/24/96	1516	"	MW-36	3	X		
	4/25/96	0845	GW	MW-59B	3	X		

	Signature	Print Name	Company	Date	Time
Relinquished by	Larry J. Powell	LARRY J. POWELL	LESAT-BURBANK	4/25/96	1100
Received by	Maria E. Nicholson	MARIAE NICHOLSON	BCA	4-25-96	11:00AM
Relinquished by	Maria E. Nicholson	MARIAE NICHOLSON	BCA	4-25-96	1:00PM
Received by	Kieu Anh Pham	Kieu Anh Pham	BCA	4/25/96	1:50
Relinquished by					
Received by Laboratory					

B C ANALYTICAL

[ ] 1085 Shary Circle, Concord, CA 94518 (510) 825-3894

[X] 801 Western Aven[illegible]ndale, CA 91201 (818) 247-5737

[ ] 1200 Gene Autry W[illegible]aheim, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements: _____

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil PE—Petroleum WW—Wastewater

: BC ANALYTICAL : GLEN LAB : 09:54:34 06 MAY 1996 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
.549*1	EW-01	VH.8010	04.30.96	8010	536-34	963059	
9604549*3	EW-16	VH.8010	05.01.96	8010	536-34	963059	
9604549*4	EW-13	VH.8010	05.01.96	8010	536-34	963059	
9604549*5	EW-18	VH.8010	05.01.96	8010	536-34	963059	
9604549*6	EW-15	VH.8010	05.01.96	8010	536-34	963060	
9604549*9	EW-12	VH.8010	04.30.96	8010	536-34	963059	
9604549*10	EW-12-FD	VH.8010	04.30.96	8010	536-34	963059	
9604549*11	MW-16	VH.8010	05.01.96	8010	536-34	963059	
9604549*12	MW-61B	VH.8010	05.01.96	8010	536-34	963059	
9604549*13	MW-26	VH.8010	05.01.96	8010	536-34	963059	
9604549*14	MW-36	VH.8010	05.01.96	8010	536-34	963060	
9604549*15	MW-59B	VH.8010	05.01.96	8010	536-34	963060	
9604549*2	EW-16-FB	VH.8010	04.30.96	8010	536-34	963059	
9604549*7	EW-12-EB	VH.8010	04.30.96	8010	536-34	963059	
9604549*8	EW-12-FB	VH.8010	04.30.96	8010	536-34	963059	
9604549*16	LTB 042296-1	VH.8010	04.30.96	8010	536-34	963059	

***

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL, GLENDALE
QC REPORT FOR 9604549
DATE PRINTED: 06 MAY 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*963059 Method: 8010 - Halogenated Volatile Organics																						
1,1,1-Trichloroethane	ug/L	0	0.5	-	107	-	-	-	61	138	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.22	0.5	-	85	-	-	-	42	141	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	0.5	-	92	-	-	-	57	133	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	0	0.5	-	103	-	-	-	65	130	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	0	0.5	-	102	-	-	-	54	138	-	-	-	77	-	68	-	50	147	7	27	-
1,2-Dichloroethane	ug/L	0	0.5	-	99	-	-	-	64	132	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	0	0.5	-	93	-	-	-	64	128	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0	0.5	-	104	-	-	-	53	147	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	0.5	-	102	-	-	-	63	130	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	0.5	-	94	-	-	-	69	133	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	0	0.5	-	106	-	-	-	70	130	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/L	0	0.5	-	84	-	-	-	39	133	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	ug/L	0	0.5	-	97	-	-	-	53	133	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	0	0.5	-	102	-	-	-	61	135	-	-	-	85	-	86	-	61	139	2	19	-
Carbon Tetrachloride	ug/L	0	0.5	-	107	-	-	-	64	132	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	0	0.5	-	70	-	-	-	46	137	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ug/L	0	0.5	-	105	-	-	-	65	133	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/L	0	0.5	-	83	-	-	-	1	160	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	0	0.5	-	100	-	-	-	65	127	-	-	-	-	-	-	-	-	-	-	-	-
Freon 113	ug/L	0.22	0.5	-	94	-	-	-	37	152	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	0	2	-	100	-	-	-	57	137	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	0	0.5	-	102	-	-	-	63	141	-	-	-	83	-	83	-	52	162	1	43	-
Trichlorofluoromethane	ug/L	0	0.5	-	79	-	-	-	42	154	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	0	0.5	-	105	-	-	-	64	139	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	0	0.5	-	81	-	-	-	40	144	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	0.5	-	104	-	-	-	63	129	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	0.5	-	101	-	-	-	65	132	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	0.5	-	105	-	-	-	59	139	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	0.5	-	98	-	-	-	60	130	-	-	-	-	-	-	-	-	-	-	-	-
[Bromochloromethane]	Percent	94	-	-	96	-	-	-	69	140	-	-	-	90	-	95	-	69	140	-	-	-

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	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	UCL	FLG
Batch: VH*963060 Method: 8010 - Halogenated Volatile Organics																				
1,1,1-Trichloroethane	ug/L	0	0.5	-	86	-	-	-	61	138	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.5	-	97	-	-	-	42	141	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	0.5	-	93	-	-	-	57	133	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	0	0.5	-	85	-	-	-	65	130	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	0	0.5	-	84	-	-	-	54	138	-	-	82	-	97	-	50	147	17	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	-	91	-	-	-	53	147	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	0.5	-	91	-	-	-	63	130	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	0.5	-	87	-	-	-	69	133	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	0	0.5	-	88	-	-	-	70	130	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/L	0	0.5	-	82	-	-	-	39	133	-	-	-	-	-	-	-	-	-	-	-
Bromoform	ug/L	0	0.5	-	106	-	-	-	53	133	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	0	0.5	-	89	-	-	-	61	135	-	-	86	-	100	-	61	139	15	19	-
Carbon Tetrachloride	ug/L	0	0.5	-	88	-	-	-	64	132	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	0	0.5	-	66	-	-	-	46	137	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ug/L	0	0.5	-	89	-	-	-	65	133	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/L	0	0.5	-	93	-	-	-	1	160	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	0	0.5	-	99	-	-	-	65	127	-	-	-	-	-	-	-	-	-	-	-
Freon 113	ug/L	0	0.5	-	72	-	-	-	37	152	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	0	2	-	86	-	-	-	57	137	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	0	0.5	-	92	-	-	-	63	141	-	-	83	-	93	-	52	162	12	43	-
Trichlorofluoromethane	ug/L	0	0.5	-	79	-	-	-	42	154	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	0	0.5	-	85	-	-	-	64	139	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	0	0.5	-	85	-	-	-	40	144	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	0.5	-	89	-	-	-	63	129	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	0.5	-	94	-	-	-	65	132	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	0.5	-	87	-	-	-	59	139	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	0.5	-	95	-	-	-	60	130	-	-	-	-	-	-	-	-	-	-	-
[Bromochloromethane]	Percent	97	-	-	95	-	-	-	69	140	-	-	98	-	103	-	69	140	-	-	-

BC ANALYTICAL, GLENDALE
SUPPLEMENTAL QC REPORT FOR 9604549
DATE PRINTED: 06 MAY 1996

AQUEOUS SAMPLES

Batch: VH*963059 Method: 8010 - Halogenated Volatile Organics

		B605125*1	C605222*1		N/A		9604549*9				
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	04/30/96	04/30/96	04/30/96	-	-	04/30/96	-	04/30/96	04/30/96	04/30/96
Date Confirmed	Date	04/30/96	04/30/96	04/30/96	-	-	04/30/96	-	04/30/96	04/30/96	04/30/96
Dilution Factor	Times	1	1	1	-	-	100	-	100	100	100
1,1,1-Trichloroethane	ug/L	0	53.5	50.0	-	-	150	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.22	42.6	50.0	-	-	<50	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	45.9	50.0	-	-	<50	-	-	-	-
1,1-Dichloroethane	ug/L	0	51.3	50.0	-	-	<50	-	-	-	-
1,1-Dichloroethene	ug/L	0	50.9	50.0	-	-	3400	-	7250	6780	8400
1,2-Dichloroethane	ug/L	0	49.3	50.0	-	-	68	-	-	-	-
1,2-Dichlorobenzene	ug/L	0	46.7	50.0	-	-	<50	-	-	-	-
1,2-Dichloropropane	ug/L	0	51.8	50.0	-	-	<50	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	50.8	50.0	-	-	<50	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	47.0	50.0	-	-	<50	-	-	-	-
Bromodichloromethane	ug/L	0	53.1	50.0	-	-	<50	-	-	-	-
Bromomethane	ug/L	0	42.0	50.0	-	-	<50	-	-	-	-
Bromoform	ug/L	0	48.4	50.0	-	-	<50	-	-	-	-
Chlorobenzene	ug/L	0	51.2	50.0	-	-	<50	-	4230	4320	5000
Carbon Tetrachloride	ug/L	0	53.5	50.0	-	-	<50	-	-	-	-
Chloroethane	ug/L	0	34.8	50.0	-	-	<50	-	-	-	-
Chloroform	ug/L	0	52.4	50.0	-	-	<50	-	-	-	-
Chloromethane	ug/L	0	41.4	50.0	-	-	<50	-	-	-	-
Dibromochloromethane	ug/L	0	50.2	50.0	-	-	<50	-	-	-	-
Freon 113	ug/L	0.22	47.1	50.0	-	-	<50	-	-	-	-
Methylene chloride	ug/L	0	50.2	50.0	-	-	<200	-	-	-	-
Trichloroethene	ug/L	0	50.8	50.0	-	-	790	-	4930	4960	5790
Trichlorofluoromethane	ug/L	0	39.5	50.0	-	-	<50	-	-	-	-
Tetrachloroethene	ug/L	0	52.4	50.0	-	-	<50	-	-	-	-
Vinyl chloride	ug/L	0	40.4	50.0	-	-	<50	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	52.0	50.0	-	-	<50	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	50.5	50.0	-	-	<50	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	52.5	50.0	-	-	<50	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	48.9	50.0	-	-	<50	-	-	-	-
Bromochloromethane Reported	ug/L	46.8	48.2	50.0	-	-	4600	-	4500	4760	5000
Bromochloromethane Theoretical	ug/L	50.0	50.0	50.0	-	-	5000	-	5000	5000	5000

BC ANALYTICAL, GLENDALE
SUPPLEMENTAL QC REPORT FOR 9604549
DATE PRINTED: 06 MAY 1996

AQUEOUS SAMPLES

Batch: VH*963060 Method: 8010 - Halogenated Volatile Organics

		B605136*1	C605242*1	.....	N/A	.....	9604549*14	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	05/01/96	05/01/96	05/01/96	-	-	05/01/96	-	05/02/96	05/02/96	05/02/96
Date Confirmed	Date	05/01/96	05/01/96	05/01/96	-	-	05/01/96	-	05/02/96	05/02/96	05/02/96
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
1,1,1-Trichloroethane	ug/L	0	43.2	50.0	-	-	<0.5	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.20	48.4	50.0	-	-	<0.5	-	-	-	-
1,1,2-Trichloroethane	ug/L	0	46.6	50.0	-	-	<0.5	-	-	-	-
1,1-Dichloroethane	ug/L	0	42.6	50.0	-	-	<0.5	-	-	-	-
1,1-Dichloroethene	ug/L	0	41.9	50.0	-	-	0.53	-	41.7	49.2	50.5
1,2-Dichloroethane	ug/L	0	46.3	50.0	-	-	<0.5	-	-	-	-
1,2-Dichlorobenzene	ug/L	0	45.4	50.0	-	-	<0.5	-	-	-	-
1,2-Dichloropropane	ug/L	0	45.5	50.0	-	-	<0.5	-	-	-	-
1,3-Dichlorobenzene	ug/L	0	45.6	50.0	-	-	<0.5	-	-	-	-
1,4-Dichlorobenzene	ug/L	0	43.6	50.0	-	-	<0.5	-	-	-	-
Bromodichloromethane	ug/L	0	43.8	50.0	-	-	<0.5	-	-	-	-
Bromomethane	ug/L	0	40.8	50.0	-	-	<0.5	-	-	-	-
Bromoform	ug/L	0	53.1	50.0	-	-	<0.5	-	-	-	-
Chlorobenzene	ug/L	0	44.3	50.0	-	-	<0.5	-	43.0	50.1	50.0
Carbon Tetrachloride	ug/L	0	43.9	50.0	-	-	<0.5	-	-	-	-
Chloroethane	ug/L	0	32.8	50.0	-	-	<0.5	-	-	-	-
Chloroform	ug/L	0	44.7	50.0	-	-	<0.5	-	-	-	-
Chloromethane	ug/L	0	46.3	50.0	-	-	<0.5	-	-	-	-
Dibromochloromethane	ug/L	0	49.4	50.0	-	-	<0.5	-	-	-	-
Freon 113	ug/L	0	35.8	50.0	-	-	<0.5	-	-	-	-
Methylene chloride	ug/L	0	43.1	50.0	-	-	<2	-	-	-	-
Trichloroethene	ug/L	0	46.0	50.0	-	-	1.1	-	42.4	47.7	51.1
Trichlorofluoromethane	ug/L	0	39.5	50.0	-	-	<0.5	-	-	-	-
Tetrachloroethene	ug/L	0	42.5	50.0	-	-	<0.5	-	-	-	-
Vinyl chloride	ug/L	0	42.5	50.0	-	-	<0.5	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0	44.7	50.0	-	-	<0.5	-	-	-	-
cis-1,3-Dichloropropene	ug/L	0	47.2	50.0	-	-	<0.5	-	-	-	-
trans-1,2-Dichloroethene	ug/L	0	43.5	50.0	-	-	<0.5	-	-	-	-
trans-1,3-Dichloropropene	ug/L	0	47.5	50.0	-	-	<0.5	-	-	-	-
Bromochloromethane Reported	ug/L	48.6	47.5	50.0	-	-	48.0	-	49.2	51.6	50.0
Bromochloromethane Theoretical	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0

B C Analytical

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L.E.S.A.T. B.P.O.
DATE REC'D. 5-10-96
WBS # 211
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ANALYTICAL REPORT

LOG NO: G96-04-607
Received: 29 APR 96
Mailed: MAY - 9 1996

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-2	MW-41	27 APR 96
04-607-3	MW-41-FD	27 APR 96
04-607-5	MW-33	27 APR 96
04-607-6	OW-03	27 APR 96
04-607-7	MW-62A	27 APR 96

PARAMETER	04-607-2	04-607-3	04-607-5	04-607-6	04-607-7
Halocarbons (8010)					
Date Analyzed	05/07/96	05/07/96	05/04/96	05/04/96	05/04/96
Date Confirmed	05/07/96	05/07/96	05/04/96	05/04/96	05/04/96
Dilution Factor, Times	2.5	1	2	1	2
1,1,1-Trichloroethane, ug/L	4.8	5.4	4.0	3.4	9.6
1,1,2,2-Tetrachloroethane, ug/L	<2	<0.5	<1	<0.5	<1
1,1,2-Trichloroethane, ug/L	<2	<0.5	<1	<0.5	<1
1,1-Dichloroethane, ug/L	<2	2.2	1.5	<0.5	1.8
1,1-Dichloroethene, ug/L	110	110	99	23	120
1,2-Dichloroethane, ug/L	<2	<0.5	<1	<0.5	<1
1,2-Dichlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
1,2-Dichloropropane, ug/L	<2	<0.5	<1	<0.5	<1
1,3-Dichlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
1,4-Dichlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
Bromodichloromethane, ug/L	<2	<0.5	<1	<0.5	<1
Bromomethane, ug/L	<2	<0.5	<1	<0.5	<1
Bromoform, ug/L	<2	<0.5	<1	<0.5	<1
Chlorobenzene, ug/L	<2	<0.5	<1	<0.5	<1
Carbon Tetrachloride, ug/L	<2	1.2	<1	<0.5	<1
Chloroethane, ug/L	<2	<0.5	<1	<0.5	<1
Chloroform, ug/L	2.8	3.4	4.6	1.1	3.6
Chloromethane, ug/L	<2	<0.5	<1	<0.5	<1
Dibromochloromethane, ug/L	<2	<0.5	<1	<0.5	<1
Freon 113, ug/L	<2	<0.5	<1	<0.5	<1

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Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-2	MW-41	27 APR 96
04-607-3	MW-41-FD	27 APR 96
04-607-5	MW-33	27 APR 96
04-607-6	OW-03	27 APR 96
04-607-7	MW-62A	27 APR 96

PARAMETER	04-607-2	04-607-3	04-607-5	04-607-6	04-607-7
Methylene chloride, ug/L	<5	<2	<4	<2	<4
Trichloroethene, ug/L	110	110	90	34	100
Trichlorofluoromethane, ug/L	<2	<0.5	<1	<0.5	<1
Tetrachloroethene, ug/L	<2	<0.5	<1	<0.5	<1
Vinyl chloride, ug/L	<2	<0.5	<1	<0.5	<1
cis-1,2-Dichloroethene, ug/L	<2	<0.5	<1	<0.5	<1
cis-1,3-Dichloropropene, ug/L	<2	<0.5	<1	<0.5	<1
trans-1,2-Dichloroethene, ug/L	<2	<0.5	<1	<0.5	<1
trans-1,3-Dichloropropene, ug/L	<2	<0.5	<1	<0.5	<1
Surrogates **					
Bromochloromethane Reported, ug/L	130	52.0	98.8	50.3	92.4
Bromochloromethane Theoretical, ug/L	125	50.0	100	50.0	100

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-8	MW-50	27 APR 96
04-607-9	MW-17	28 APR 96
04-607-10	MW-19	28 APR 96
04-607-15	MW-10	25 APR 96
04-607-16	MW-07	25 APR 96

PARAMETER	04-607-8	04-607-9	04-607-10	04-607-15	04-607-16
Halocarbons (8010)					
Date Analyzed	05/04/96	05/04/96	05/03/96	05/07/96	05/07/96
Date Confirmed	05/04/96	05/04/96	05/03/96	05/07/96	05/07/96
Dilution Factor, Times	1	1	1	1	1
1,1,1-Trichloroethane, ug/L	0.64	8.9	3.4	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	<0.5	2.8	<0.5	<0.5
1,1-Dichloroethene, ug/L	2.3	18	18	1.5	0.70
1,2-Dichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5

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LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-8	MW-50	27 APR 96
04-607-9	MW-17	28 APR 96
04-607-10	MW-19	28 APR 96
04-607-15	MW-10	25 APR 96
04-607-16	MW-07	25 APR 96

PARAMETER	04-607-8	04-607-9	04-607-10	04-607-15	04-607-16
Freon 113, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride, ug/L	<2	<2	<2	<2	<2
Trichloroethene, ug/L	3.4	13	7.1	1.5	0.87
Trichlorofluoromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	50.7	54.3	46.0	55.4	51.6
Bromochloromethane Theoretical, ug/L	50.0	50.0	50.0	50.0	50.0

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-17	MW-55	25 APR 96
04-607-19	MW-04	26 APR 96
04-607-20	EW-17	26 APR 96
04-607-21	EW-02	26 APR 96
04-607-22	MW-11	26 APR 96

PARAMETER	04-607-17	04-607-19	04-607-20	04-607-21	04-607-22
Halocarbons (8010)					
Date Analyzed	05/03/96	05/07/96	05/07/96	05/03/96	05/03/96
Date Confirmed	05/03/96	05/07/96	05/07/96	05/03/96	05/03/96
Dilution Factor, Times	2	2	10	2	1
1,1,1-Trichloroethane, ug/L	19	9.9	28	10	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<1	<1	<5	<1	<0.5
1,1,2-Trichloroethane, ug/L	<1	<1	<5	<1	<0.5
1,1-Dichloroethane, ug/L	3.4	2.2	13	2.7	<0.5
1,1-Dichloroethene, ug/L	130	160	690	140	<0.5
1,2-Dichloroethane, ug/L	3.9	1.3	26	<1	<0.5
1,2-Dichlorobenzene, ug/L	<1	<1	<5	<1	<0.5
1,2-Dichloropropane, ug/L	<1	<1	<5	<1	<0.5
1,3-Dichlorobenzene, ug/L	<1	<1	<5	<1	<0.5
1,4-Dichlorobenzene, ug/L	<1	<1	<5	<1	<0.5
Bromodichloromethane, ug/L	<1	<1	<5	<1	<0.5
Bromomethane, ug/L	<1	<1	<5	<1	<0.5
Bromoform, ug/L	<1	<1	<5	<1	<0.5
Chlorobenzene, ug/L	<1	<1	<5	<1	<0.5
Carbon Tetrachloride, ug/L	<1	<1	<5	<1	<0.5
Chloroethane, ug/L	<1	<1	<5	<1	<0.5
Chloroform, ug/L	<1	1.6	<5	3.8	<0.5
Chloromethane, ug/L	<1	<1	<5	<1	<0.5
Dibromochloromethane, ug/L	<1	<1	<5	<1	<0.5

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2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-17	MW-55	25 APR 96
04-607-19	MW-04	26 APR 96
04-607-20	EW-17	26 APR 96
04-607-21	EW-02	26 APR 96
04-607-22	MW-11	26 APR 96

PARAMETER	04-607-17	04-607-19	04-607-20	04-607-21	04-607-22
Freon 113, ug/L	<1	<1	<5	<1	<0.5
Methylene chloride, ug/L	<4	<4	<20	<4	<2
Trichloroethene, ug/L	95	130	360	130	<0.5
Trichlorofluoromethane, ug/L	<1	<1	<5	<1	<0.5
Tetrachloroethene, ug/L	<1	<1	<5	<1	<0.5
Vinyl chloride, ug/L	<1	<1	<5	<1	<0.5
cis-1,2-Dichloroethene, ug/L	<1	<1	<5	<1	<0.5
cis-1,3-Dichloropropene, ug/L	<1	<1	<5	<1	<0.5
trans-1,2-Dichloroethene, ug/L	<1	<1	<5	<1	<0.5
trans-1,3-Dichloropropene, ug/L	<1	<1	<5	<1	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	95.2	103	506	92.6	56.3
Bromochloromethane Theoretical, ug/L	100	100	500	100	50.0

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-23	MW-66	26 APR 96
04-607-24	MW-06	27 APR 96
04-607-25	MW-57A	28 APR 96
04-607-26	MW-56A	28 APR 96
04-607-27	MW-56C	28 APR 96

PARAMETER	04-607-23	04-607-24	04-607-25	04-607-26	04-607-27
Halocarbons (8010)					
Date Analyzed	05/03/96	05/03/96	05/06/96	05/06/96	05/06/96
Date Confirmed	05/03/96	05/03/96	05/06/96	05/06/96	05/06/96
Dilution Factor, Times	5	1	1	1	1
1,1,1-Trichloroethane, ug/L	9.5	<0.5	9.3	<0.5	9.8
1,1,2,2-Tetrachloroethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<3	<0.5	1.5	<0.5	2.0
1,1-Dichloroethene, ug/L	220	3.1	65	0.71	79
1,2-Dichloroethane, ug/L	<3	<0.5	1.4	<0.5	1.5
1,2-Dichlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Bromomethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Bromoform, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Chloroethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Chloroform, ug/L	7.4	<0.5		<0.5	0.61
Chloromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5

B C Analytical

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2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-23	MW-66	26 APR 96
04-607-24	MW-06	27 APR 96
04-607-25	MW-57A	28 APR 96
04-607-26	MW-56A	28 APR 96
04-607-27	MW-56C	28 APR 96

PARAMETER	04-607-23	04-607-24	04-607-25	04-607-26	04-607-27
Freon 113, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Methylene chloride, ug/L	<10	<2	<2	<2	<2
Trichloroethene, ug/L	160	3.3	57	1.4	71
Trichlorofluoromethane, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Vinyl chloride, ug/L	<3	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<3	<0.5	<0.5	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	235	51.2	50.1	52.5	52.4
Bromochloromethane Theoretical, ug/L	250	50.0	50.0	50.0	50.0

B C Analytical

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

LOG NO: G96-04-607

Received: 29 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-28	MW-51	28 APR 96
04-607-29	MW-67	28 APR 96
04-607-30	MW-58D	28 APR 96
04-607-31	MW-58D-FD	28 APR 96
04-607-32	MW-49	28 APR 96

PARAMETER	04-607-28	04-607-29	04-607-30	04-607-31	04-607-32
Halocarbons (8010)					
Date Analyzed	05/06/96	05/07/96	05/07/96	05/03/96	05/06/96
Date Confirmed	05/06/96	05/07/96	05/07/96	05/03/96	05/06/96
Dilution Factor, Times	1	1	2	1	1
1,1,1-Trichloroethane, ug/L	13	7.5	7.1	8.7	2.0
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,1-Dichloroethane, ug/L	0.92	1.5	1.3	1.9	<0.5
1,1-Dichloroethene, ug/L	46	74	76	89	8.9
1,2-Dichloroethane, ug/L	<0.5	0.96	<1	1.2	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Chloroform, ug/L	1.4	0.83	<1	1.4	<0.5
Chloromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5

B C Analytical

801 Western Avenue
lendale, CA 91201
.18/247-5737
Fax: 818/247-9797

LOG NO: G96-04-607

Received: 29 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-28	MW-51	28 APR 96
04-607-29	MW-67	28 APR 96
04-607-30	MW-58D	28 APR 96
04-607-31	MW-58D-FD	28 APR 96
04-607-32	MW-49	28 APR 96

PARAMETER	04-607-28	04-607-29	04-607-30	04-607-31	04-607-32
Freon 113, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Methylene chloride, ug/L	<2	<2	<4	<2	<2
Trichloroethene, ug/L	43	73	71	82	11
Trichlorofluoromethane, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5	<1	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<1	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	54.0	52.9	95.6	50.7	56.0
Bromochloromethane Theoretical, ug/L	50.0	50.0	100	50.0	50.0

B C Analytical

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

LOG NO: G96-04-607

Received: 29 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-33	MW-52	28 APR 96
04-607-34	MW-45	26 APR 96

PARAMETER	04-607-33	04-607-34
Halocarbons (8010)		
Date Analyzed	05/07/96	05/06/96
Date Confirmed	05/07/96	05/06/96
Dilution Factor, Times	1	1
1,1,1-Trichloroethane, ug/L	6.5	5.3
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5
1,1-Dichloroethane, ug/L	1.0	1.3
1,1-Dichloroethene, ug/L	64	31
1,2-Dichloroethane, ug/L	0.61	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5
Chloroform, ug/L	0.69	<0.5
Chloromethane, ug/L	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5
Freon 113, ug/L	<0.5	<0.5
Methylene chloride, ug/L	<2	<2
Trichloroethene, ug/L	59	26

B C Analytical

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

LOG NO: G96-04-607

Received: 29 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-33	MW-52	28 APR 96
04-607-34	MW-45	26 APR 96

PARAMETER	04-607-33	04-607-34
Trichlorofluoromethane, ug/L	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5
Surrogates **		
Bromochloromethane Reported, ug/L	51.2	49.3
Bromochloromethane Theoretical, ug/L	50.0	50.0

B C Analytical

801 Western Avenue
Glendale, CA 91201
18/247-5737
Fax: 818/247-9797

LOG NO: G96-04-607

Received: 29 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-1	MW-41-FB	27 APR 96
04-607-4	MW-41-EB	27 APR 96
04-607-11	MW-58D-FB	28 APR 96
04-607-12	MW-58D-EB	28 APR 96
04-607-13	LTB042596-1	25 APR 96

PARAMETER	04-607-1	04-607-4	04-607-11	04-607-12	04-607-13
Halocarbons (8010)					
Date Analyzed	05/06/96	05/07/96	05/07/96	05/03/96	05/07/96
Date Confirmed	05/06/96	05/07/96	05/07/96	05/03/96	05/07/96
Dilution Factor, Times	1	1	1	1	1
1,1,1-Trichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5

B C Analytical

801 Western Avenue
Glendale, CA 91201
818/247-5737
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LOG NO: G96-04-607

Received: 29 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-1	MW-41-FB	27 APR 96
04-607-4	MW-41-EB	27 APR 96
04-607-11	MW-58D-FB	28 APR 96
04-607-12	MW-58D-EB	28 APR 96
04-607-13	LTB042596-1	25 APR 96

PARAMETER	04-607-1	04-607-4	04-607-11	04-607-12	04-607-13
Freon 113, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride, ug/L	<2	<2	<2	<2	<2
Trichloroethene, ug/L	<0.5	0.87	<0.5	<0.5	<0.5
Trichlorofluoromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogates **					
Bromochloromethane Reported, ug/L	49.6	54.8	58.0	50.9	56.3
Bromochloromethane Theoretical, ug/L	50.0	50.0	50.0	50.0	50.0

B C Analytical

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

LOG NO: G96-04-607

Received: 29 APR 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-607-14	MW-10-FB	25 APR 96
04-607-18	MW-04-FB	26 APR 96

PARAMETER	04-607-14	04-607-18
Halocarbons (8010)		
Date Analyzed	05/07/96	05/07/96
Date Confirmed	05/07/96	05/07/96
Dilution Factor, Times	1	1
1,1,1-Trichloroethane, ug/L	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	<0.5
1,1-Dichloroethene, ug/L	<0.5	<0.5
1,2-Dichloroethane, ug/L	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5
Freon 113, ug/L	<0.5	<0.5
Methylene chloride, ug/L	<2	<2
Trichloroethene, ug/L	<0.5	<0.5

B C Analytical

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

LOG NO: G96-04-607

Received: 29 APR 96
Mailed : 09 MAY 96

Mr. Masood Choudhury
Lockheed Martin, Environmental Technical Services Purchase Order: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505

Project: BEAUMONT#1

REPORT OF ANALYTICAL RESULTS

Samples MW-41 and MW-58D were reported using a diluted run due to spiking compounds being over calibration range.
Results for the following compounds are from straight undiluted runs that were not reported.

MW-41: 1,1-Dichloroethane @ 2.7 ug/L
Carbon Tetrachloride @ 1.7 ug/L

MW-58D: 1,1-Dichloroethane @ 1.5 ug/L
1,2-Dichloroethane @ 1.1 ug/L

(L. Lem 5/96)

Greta Galoustian, Laboratory Director

ORDER DATE 29 APR 96
PRINT DATE 29 APR 96 06:39PM

LABORA
C

ORDER NO G96-04

INVOICE: Lockheed Corporation
2550 North Hollywood Way, Suite 506
Burbank, CA 91505
ATTN: Accounts Payable

DUE: 13

REPORT TO: Lockheed Martin
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505
ATTN: Mr. Masood Choudhury

PO: 00ETS048

PROJECT: BEAUMON
PHONE: 818/847-0

LAB PHONE #: 818/247-5737
BCA Contact: Larry Lem

HOLD: UNTIL 29 I

ITEM	LOG NUMBER	DESCRIPTION OF SAMPLE	SAMPLED DATE	RUSH%	DUE DATE	TYP
1	04-607-2	MW-41	27 APR	0	13 MAY	G
	04-607-3	MW-41-FD	27 APR	0	13 MAY	
	04-607-5	MW-33	27 APR	0	13 MAY	
	04-607-6	OW-03	27 APR	0	13 MAY	
	04-607-7	MW-62A	27 APR	0	13 MAY	
	04-607-8	MW-50	27 APR	0	13 MAY	
	04-607-9	MW-17	28 APR	0	13 MAY	
	04-607-10	MW-19	28 APR	0	13 MAY	
	04-607-15	MW-10	25 APR	0	13 MAY	
	04-607-16	MW-07	25 APR	0	13 MAY	
	04-607-17	MW-55	25 APR	0	13 MAY	
	04-607-19	MW-04	26 APR	0	13 MAY	
	04-607-20	EW-17	26 APR	0	13 MAY	
	04-607-21	EW-02	26 APR	0	13 MAY	
	04-607-22	MW-11	26 APR	0	13 MAY	
	04-607-23	MW-66	26 APR	0	13 MAY	
	04-607-24	MW-06	26 APR	0	13 MAY	
	04-607-25	MW-57A	27 APR	0	13 MAY	
	04-607-26	MW-56A	28 APR	0	13 MAY	
	04-607-27	MW-56C	28 APR	0	13 MAY	
	04-607-28	MW-51	28 APR	0	13 MAY	
	04-607-29	MW-67	28 APR	0	13 MAY	
	04-607-30	MW-58D	28 APR	0	13 MAY	
	04-607-31	MW-58D-FD	28 APR	0	13 MAY	
	04-607-32	MW-49	28 APR	0	13 MAY	
	04-607-33	MW-52	28 APR	0	13 MAY	
	04-607-34	MW-45	26 APR	0	13 MAY	

DETERMINATION	CODE		PRICE	+	RUSH	x	QTY	AMOUNT
Halocarbons	VH.8010	VO	50.00		0.00		27	1350.00

ITEM NOTES: Client requested QC on -2, -30. Do not delete.

LABORATORY ORDER CONTINUED ON PAGE 2

ORDER DATE 29 APR 96
PRINT DATE 29 APR 96 06:39PM

ORDER NO G96-04-6

INVOICE: Lockheed Corporation
2550 North Hollywood Way, Suite 506
Burbank, CA 91505
ATTN: Accounts Payable

DUE: 13 M

REPORT TO: Lockheed Martin
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505
ATTN: Mr. Masood Choudhury

PO: 00ETS0487-

PROJECT: BEAUMONT#
PHONE: 818/847-016

LAB PHONE #: 818/247-5737
BCA Contact: Larry Lem

HOLD: UNTIL 29 MA

ITEM	LOG NUMBER	DESCRIPTION OF SAMPLE	SAMPLED DATE	RUSH%	DUE DATE	TYPE
2	04-607-1	MW-41-FB	27 APR	0	13 MAY	BW
	04-607-4	MW-41-EB	27 APR	0	13 MAY	
	04-607-11	MW-58D-FB	28 APR	0	13 MAY	
	04-607-12	MW-58D-EB	28 APR	0	13 MAY	
	04-607-13	LTB042596-1	25 APR	0	13 MAY	
	04-607-14	MW-10-FB	25 APR	0	13 MAY	
	04-607-18	MW-04-FB	26 APR	0	13 MAY	

DETERMINATION	CODE		PRICE	+	RUSH	x	QTY	AMOUNT
Halocarbons	VH.8010	VO	50.00		0.00		7	350.00

Contract for PO#/PROJ# 00ETS0487-3 effective until 01/31/98

All work performed by BCA is done in accordance with our Standard Terms and Conditions, which can be found attached to this Order Acknowledgement.

ICE TO READ:

TOTAL AMOUNT DUE $1,700.00

BC ANALYTICAL LABORATORY
GLENDALE, CALIFORNIA ORDER

ORDER DATE 25 APR 96 ORDER NO G96-04-549
PRINT DATE 25 APR 96 05:04PM

INVOICE: Lockheed Corporation DUE: 09 MAY
2550 North Hollywood Way, Suite 506
Burbank, CA 91505
ATTN: Accounts Payable

REPORT TO: Lockheed Martin PO: 00ETS0487-3
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505 PROJECT: BEAUMONT#1
ATTN: Mr. Masood Choudhury PHONE: 818/847-0512

LAB PHONE #: 818/247-5737 HOLD: UNTIL 25 MAY
BCA Contact: Larry Lem

ITEM	LOG NUMBER	DESCRIPTION OF SAMPLE	SAMPLED DATE	RUSH%	DUE DATE	TYPE
1	04-549-1	EW-01	22 APR	0	09 MAY	GW
	04-549-3	EW-16	23 APR	0	09 MAY	
	04-549-4	EW-13	23 APR	0	09 MAY	
	04-549-5	EW-18	23 APR	0	09 MAY	
	04-549-6	EW-15	23 APR	0	09 MAY	
	04-549-9	EW-12	24 APR	0	09 MAY	
	04-549-10	EW-12-FD	24 APR	0	09 MAY	
	04-549-11	MW-16	24 APR	0	09 MAY	
	04-549-12	MW-61B	24 APR	0	09 MAY	
	04-549-13	MW-26	24 APR	0	09 MAY	
	04-549-14	MW-36	24 APR	0	09 MAY	
	04-549-15	MW-59B	25 APR	0	09 MAY	

DETERMINATION	CODE		PRICE	+	RUSH	x	QTY	AMOUNT
Halocarbons	VH.8010	VO	50.00		0.00		12	600.00

ITEM NOTES: Client request QC on -9. Do not delete.

LOG NUMBER	DESCRIPTION OF SAMPLE	SAMPLED DATE	RUSH%	DUE DATE	TYPE
2 04-549-2	EW-16-FB	23 APR	0	09 MAY	GW
04-549-7	EW-12-EB	24 APR	0	09 MAY	
04-549-8	EW-12-FB	24 APR	0	09 MAY	
04-549-16	LTB 042296-1	22 APR	0	09 MAY	

DETERMINATION	CODE		PRICE	+	RUSH	x	QTY	AMOUNT
Halocarbons	VH.8010	VO	50.00		0.00		4	200.00

LABORATORY ORDER CONTINUED ON PAGE 2

ORDER DATE 25 APR 96
PRINT DATE 25 APR 96 05:04PM

ORDER NO G96-04-54

INVOICE: Lockheed Corporation
2550 North Hollywood Way, Suite 506
Burbank, CA 91505
ATTN: Accounts Payable

DUE: 09 MA

REPORT TO: Lockheed Martin
2550 N. Hollywood Way, Ste. 506
Burbank, CA 91505
ATTN: Mr. Masood Choudhury

PO: 00ETS0487-

PROJECT: BEAUMONT#
PHONE: 818/847-051

LAB PHONE #: 818/247-5737
BCA Contact: Larry Lem

HOLD: UNTIL 25 MA

Contract for PO#/PROJ# 00ETS0487-3 effective until 01/31/98

All work performed by BCA is done in accordance with our Standard Terms and Conditions, which can be found attached to this Order Acknowledgement.

INVOICE TO READ:

TOTAL AMOUNT DUE $800.00
INVOICE: WITH REPORT


BCA

CHAIN OF CUSTODY RECORD

BCA Log Number

Client name	Project or PO#
Address	Phone #
City, State, Zip	Report attention

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by / Sample description	Number of containers	Analyses required	Hazardous sample Special handling required	Remarks

	Signature	Print Name	Company	Date	Time
Relinquished by					
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by Laboratory					

B C ANALYTICAL

☐ 1085 Shary Circle, Concord, CA 94518 (510) 825-3894

☐ 801 Western Avenue, Glendale, CA 91201 (818) 247-5737

☐ 1200 Gene Autry Way, Anaheim, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements: _____

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil PE—Petroleum WW—Wastewater

CHAIN OF CUSTODY RECORD

BCA Log Number [illegible]

Client name	Project or PO#
[illegible]	[illegible]
Address	**Phone #**
[illegible]	[illegible]
City, State, Zip / **Report attention**	
[illegible] / [illegible]	

Sampled by: [illegible]

Analyses required

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sample description	Number of containers	[illegible]							Hazardous sample / Special handling required	Remarks
	[illegible]	[illegible]	[illegible]	[illegible]	3	X								Cool, HCl
	[illegible]	[illegible]		[illegible]	6	X								[illegible] Cool, HCl
	[illegible]	[illegible]		[illegible]	3	X								Cool, HCl
	[illegible]	[illegible]		[illegible]	3	X								Cool, HCl
	[illegible]	[illegible]		[illegible]	3	X								Cool, HCl
	[illegible]	[illegible]		[illegible]	3	X								Cool, HCl
	[illegible]	[illegible]		[illegible]	3	X								Cool, HCl
	[illegible]	[illegible]		[illegible]	3	X								Cool, HCl
	[illegible]	[illegible]		[illegible]	3	X								Cool, HCl
	[illegible]	[illegible]		[illegible]	3	X								Cool, HCl
	[illegible]	[illegible]		[illegible]	3	X								Cool, HCl
	[illegible]	[illegible]		[illegible]	3	X								Cool, HCl

	Signature	Print Name	Company	Date	Time
Relinquished by	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Received by	[illegible]	[illegible]	BCA	9/21/92	[illegible]
Relinquished by					
Received by					
Relinquished by					
Received by Laboratory					

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Disposal arrangements: ______________________

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil PE—Petroleum WW—Wastewater

[illegible]

CHAIN OF CUSTODY RECORD

BCA Log Number _____

Client name	Project or PO#
Address	**Phone #**
City, State, Zip	**Report attention**

Analyses required

Hazardous sample
Special handling required

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by / Sample description	Number of containers									Remarks

	Signature	Print Name	Company	Date	Time
Relinquished by					
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by Laboratory					

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Disposal arrangements: _____

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil PE—Petroleum WW—Wastewater

CHAIN OF CUSTODY RECORD

BCA Log Number

Client name	Project or PO#
Address	Phone #
City, State, Zip	Report attention

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by / Sample description	Number of containers	Analyses required	Hazardous sample Special handling required	Remarks

	Signature	Print Name	Company	Date	Time
Relinquished by					
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by Laboratory					

B C ANALYTICAL

☐ 1085 Shary Circle, Concord, CA 94518 (510) 825-3894

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Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements: _____

*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil PE—Petroleum WW—Wastewater

CHAIN OF CUSTODY RECORD

BCA Log Number ____

Client name	Project or PO#
Address	Phone #
City, State, Zip	Report attention

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by / Sample description	Number of containers	Analyses required	Hazardous sample Special handling required	Remarks

Signature	Print Name	Company	Date	Time
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory				

B C ANALYTICAL

☐ 1085 Shary Circle, Concord, CA 94518 (510) 825-3894

☑ 801 Western Avenue, Glendale, CA 91201 (818) 247-5737

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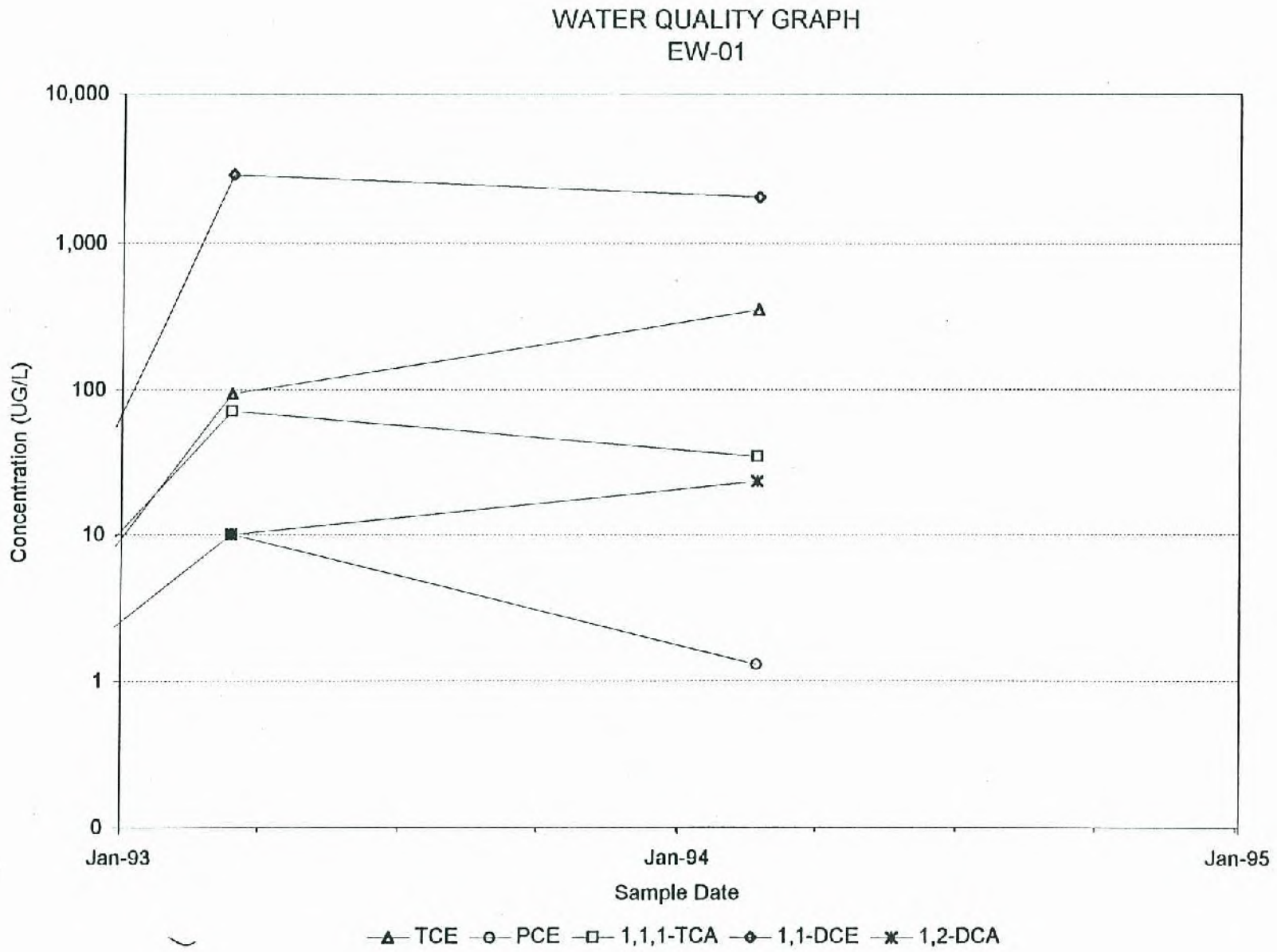
Disposal arrangements: ____

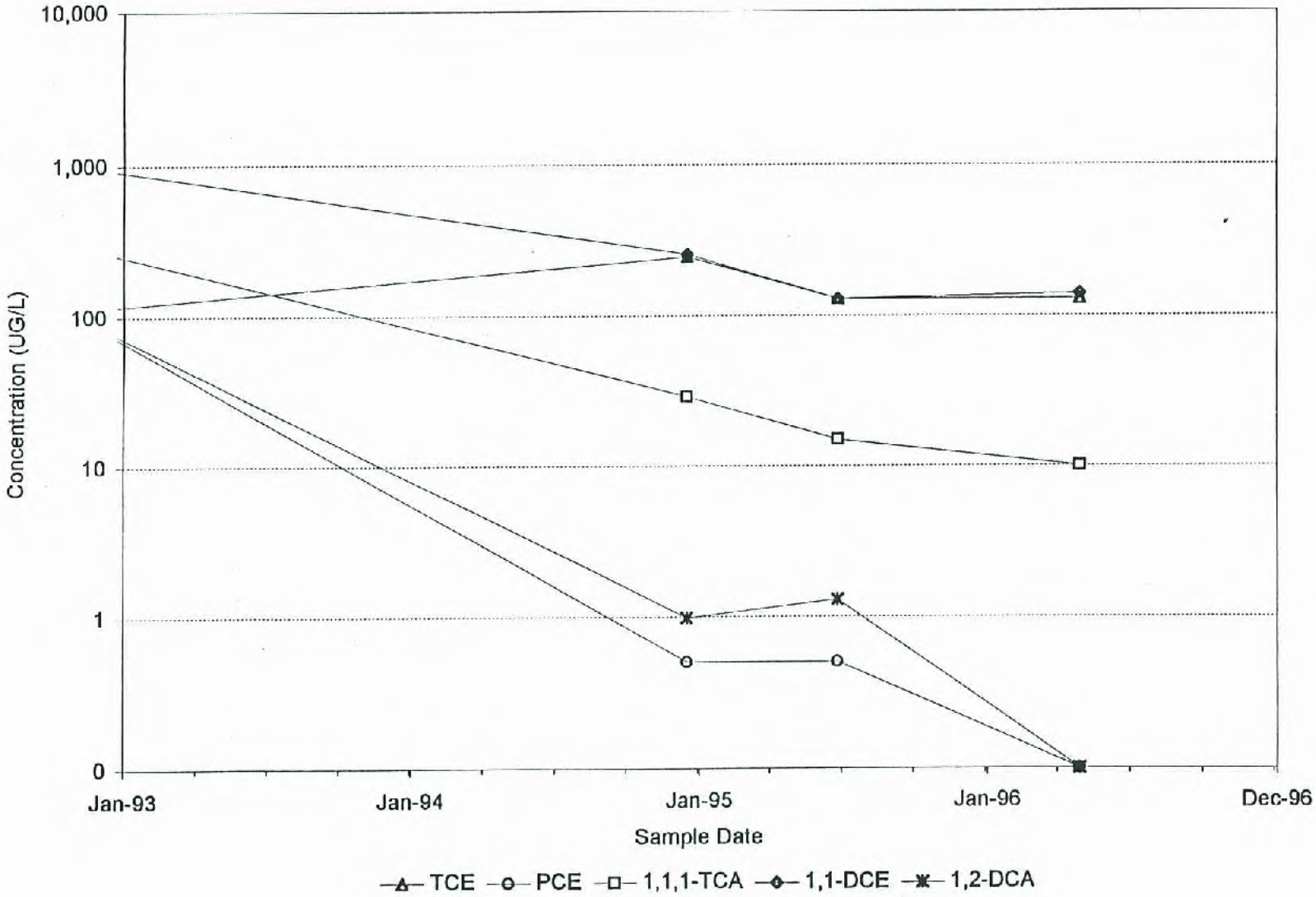
*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil PE—Petroleum WW—Wastewater

APPENDIX C

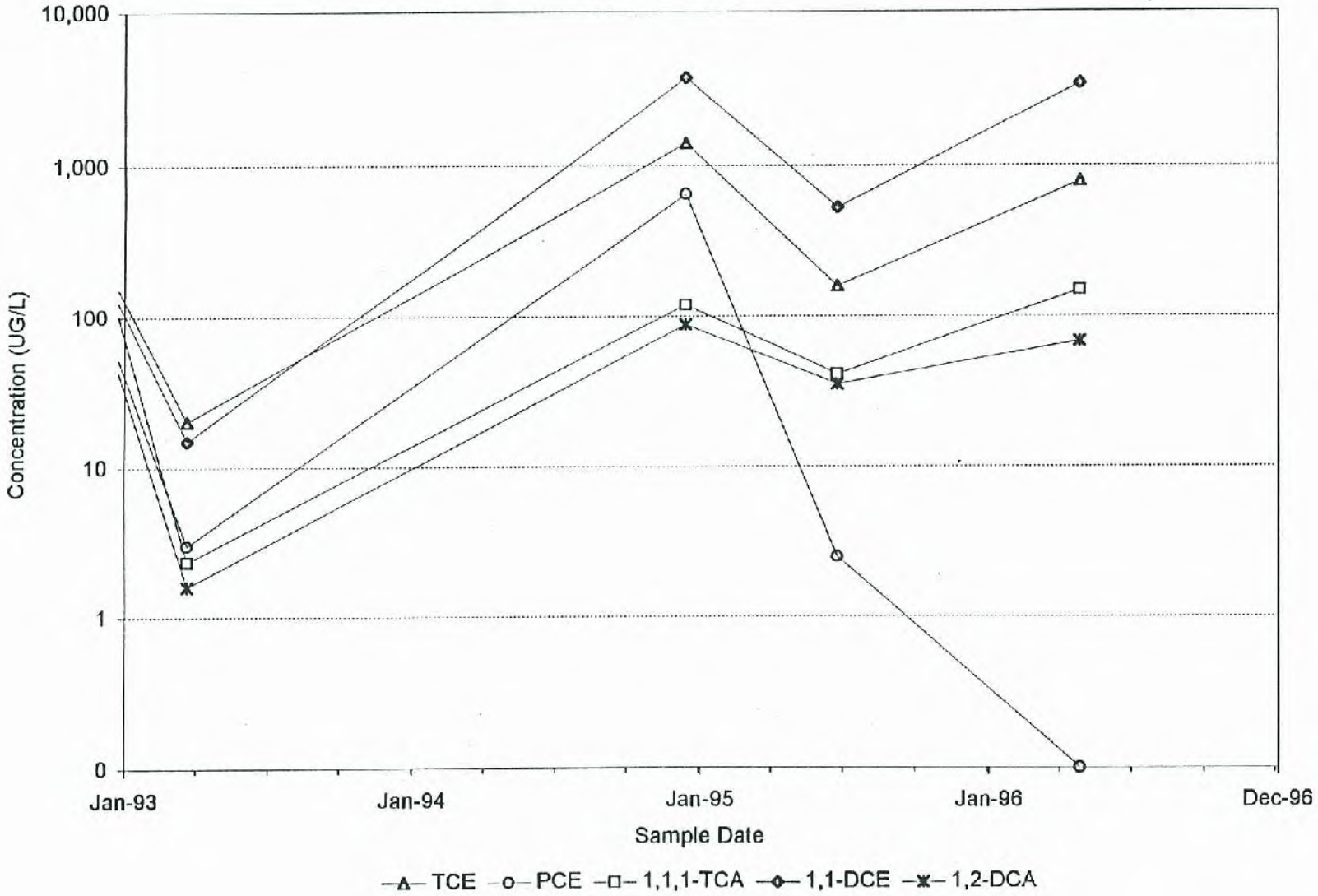
WATER QUALITY GRAPHS


WATER QUALITY GRAPH
EW-01
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA

WATER QUALITY GRAPH
EW-02



WATER QUALITY GRAPH
EW-12



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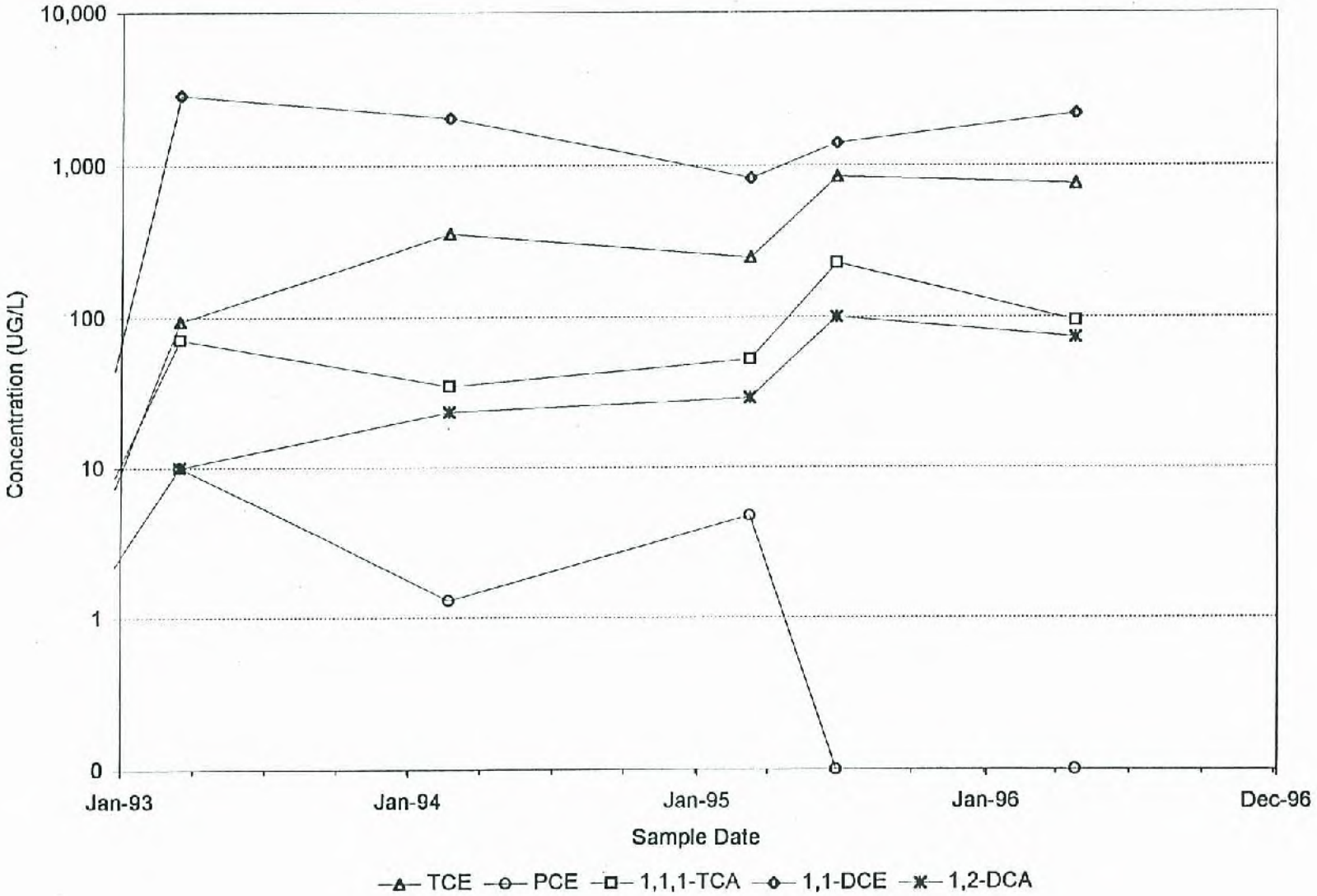
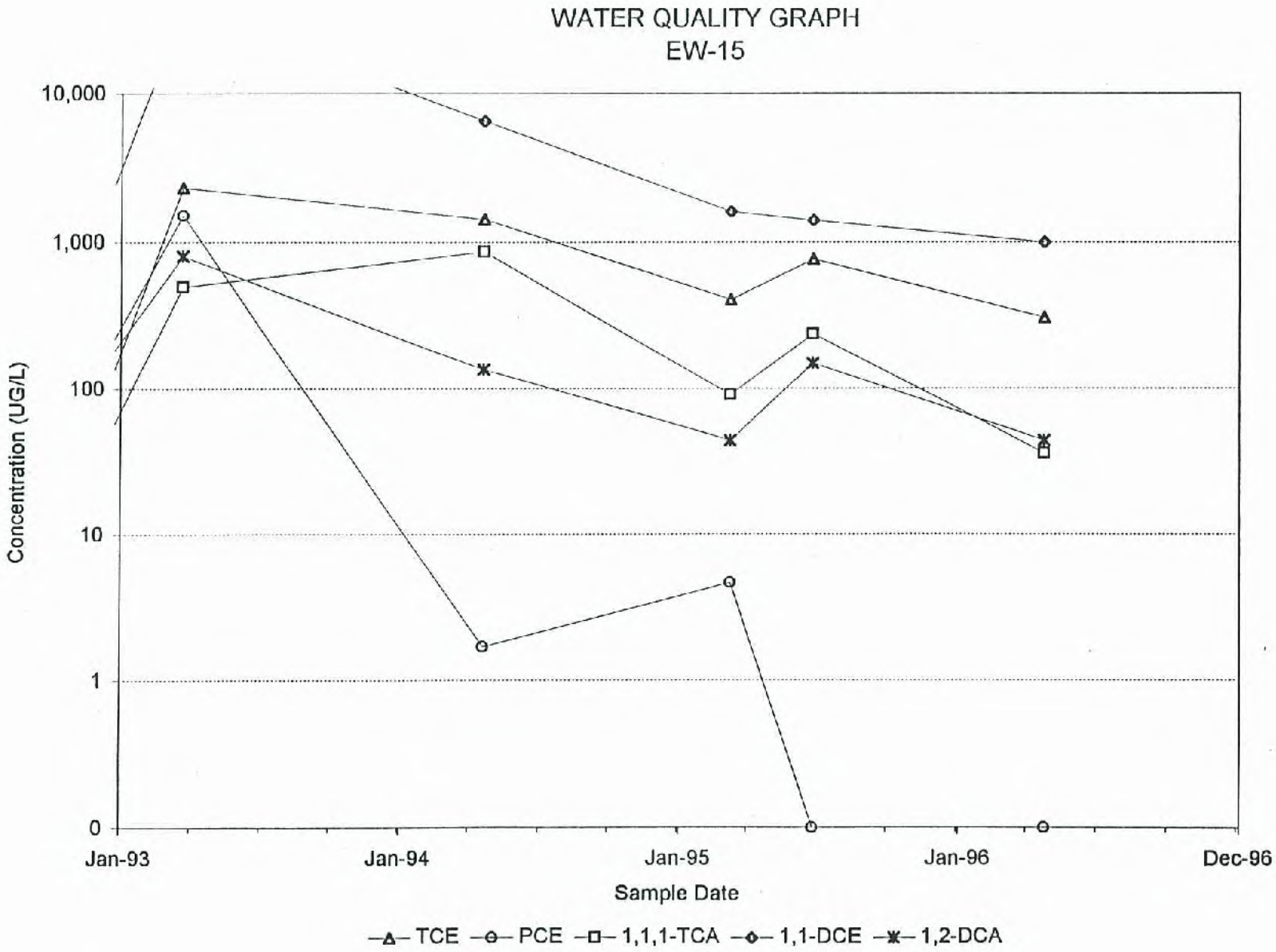
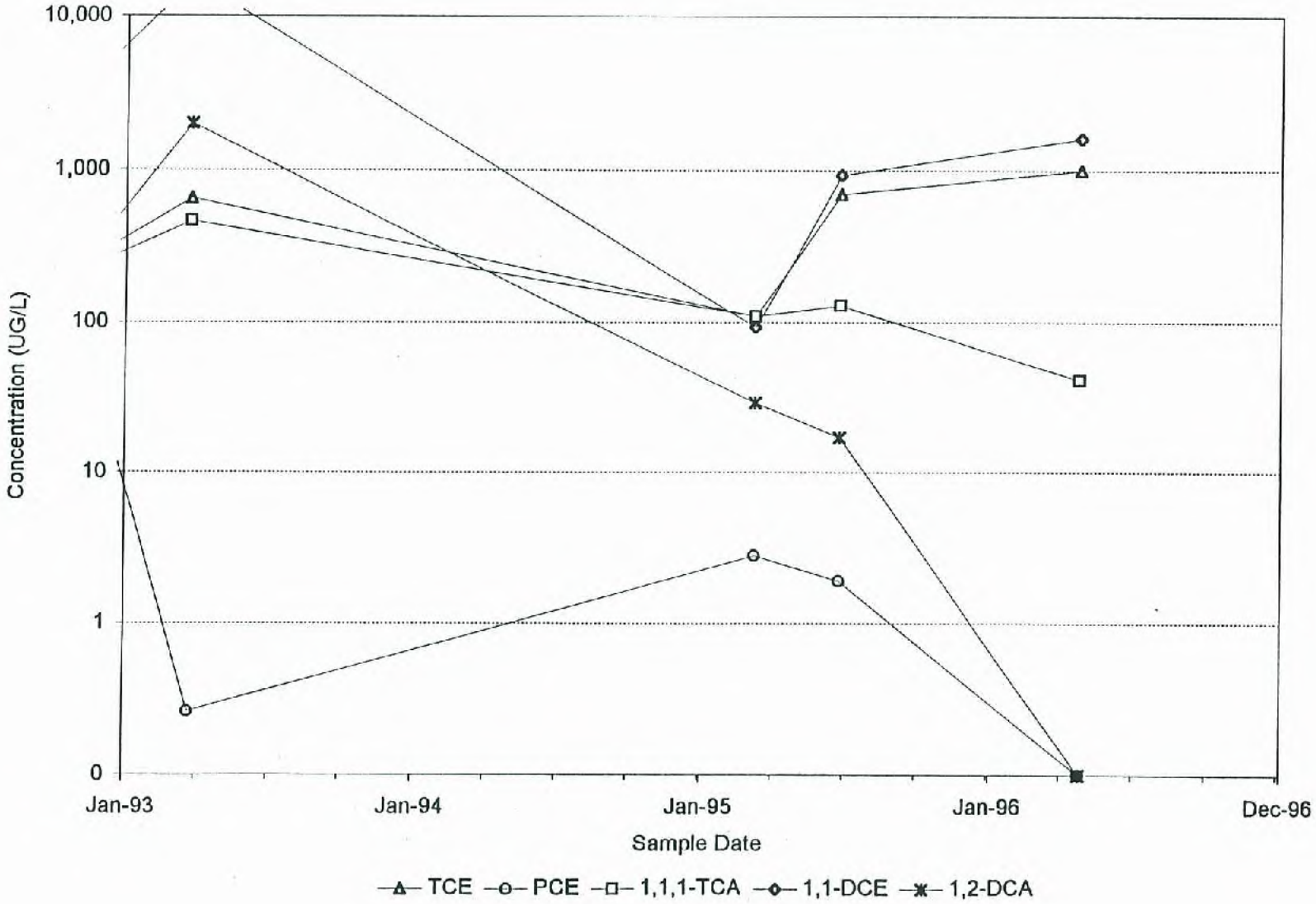
EW-13

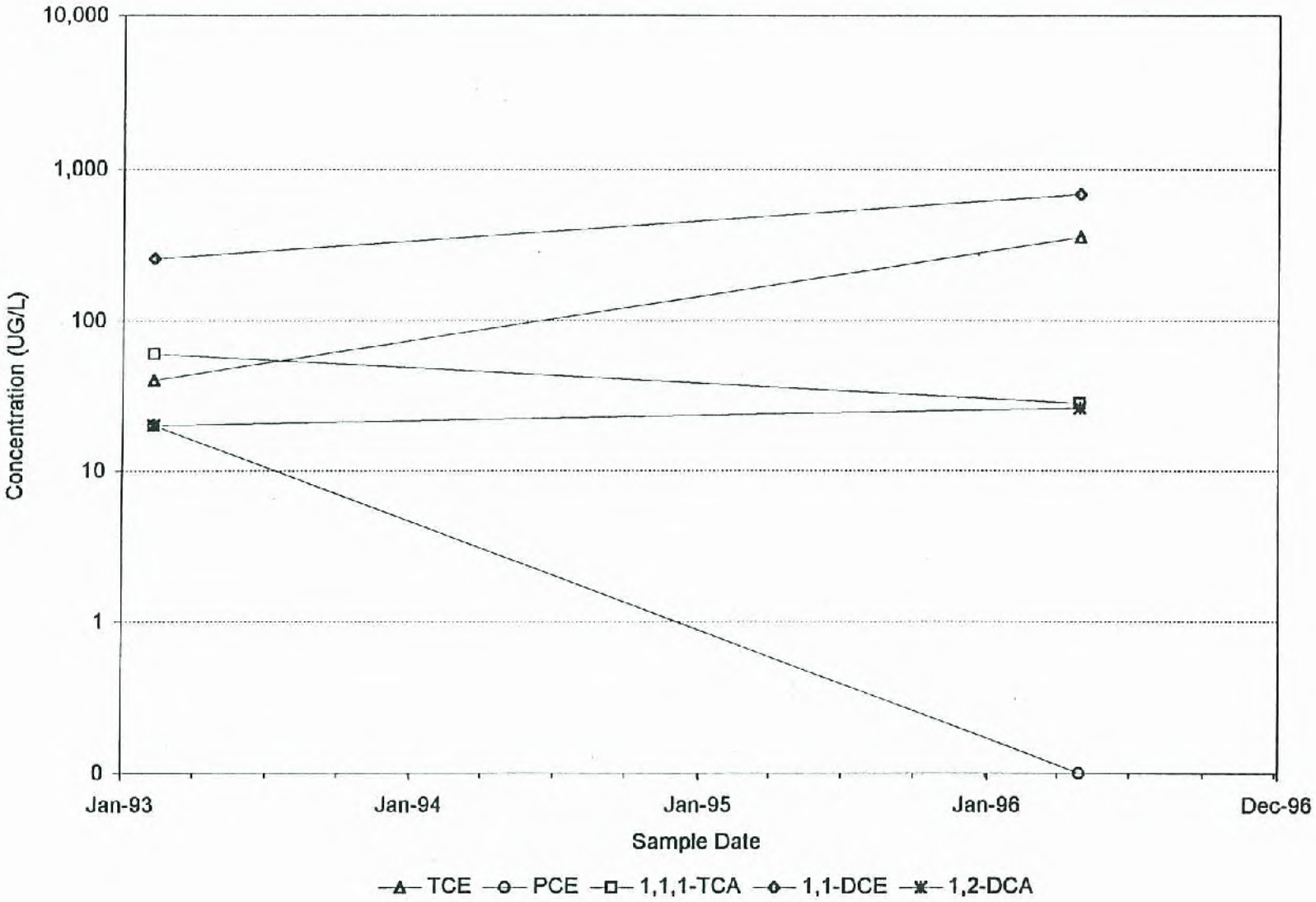


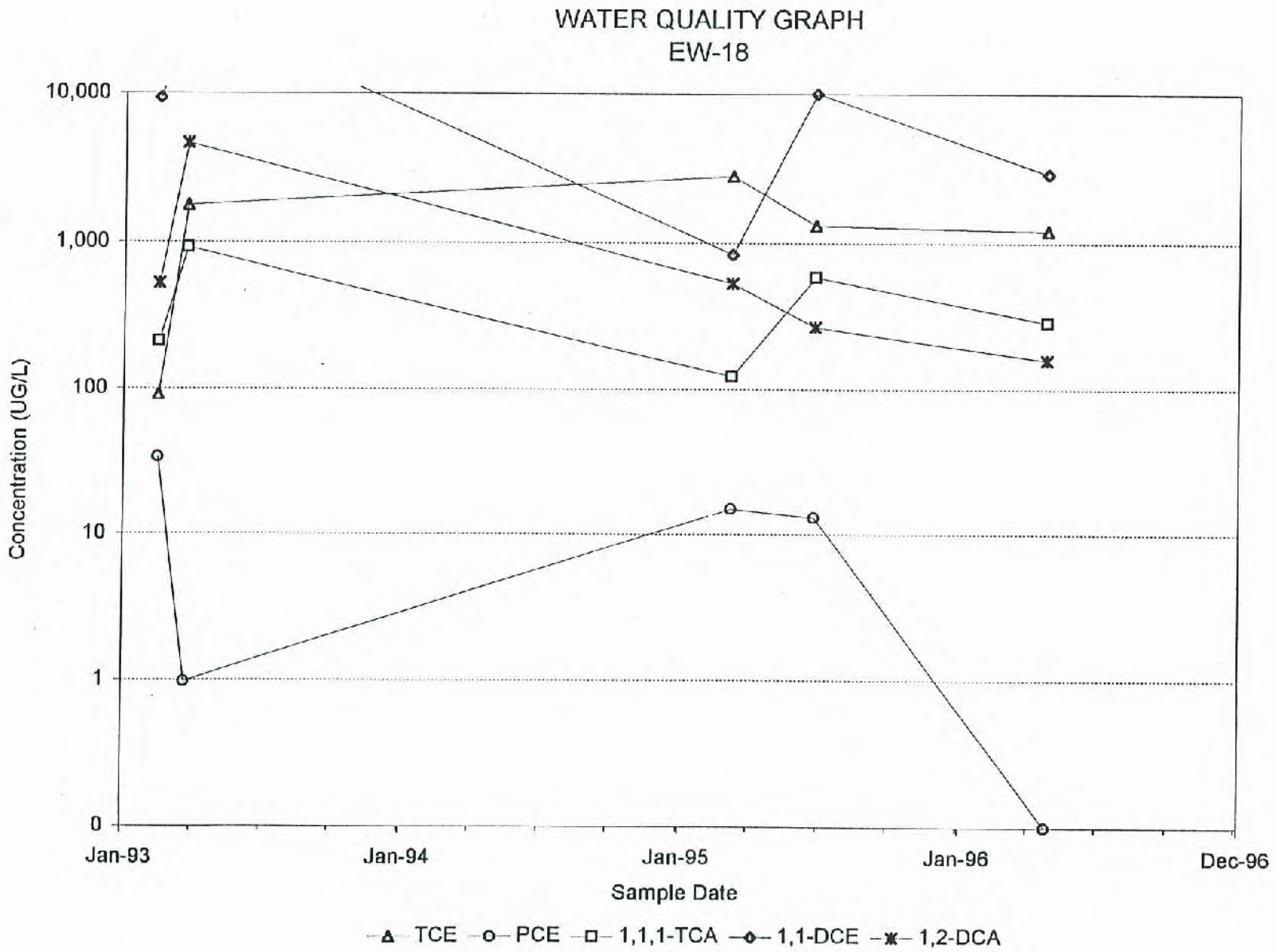

WATER QUALITY GRAPH
EW-15
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA

WATER QUALITY GRAPH
EW-16



WATER QUALITY GRAPH
EW-17

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EW-18
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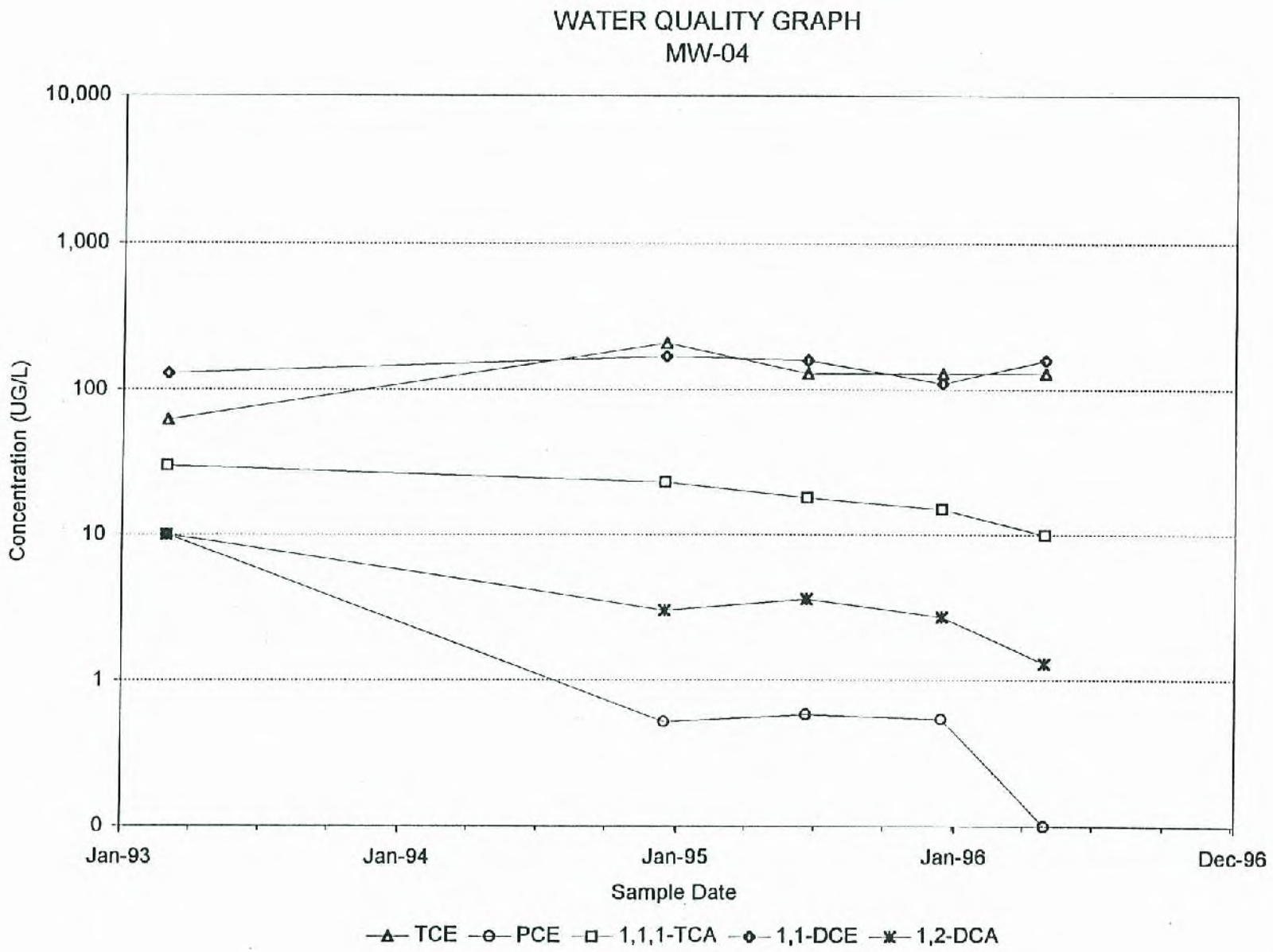
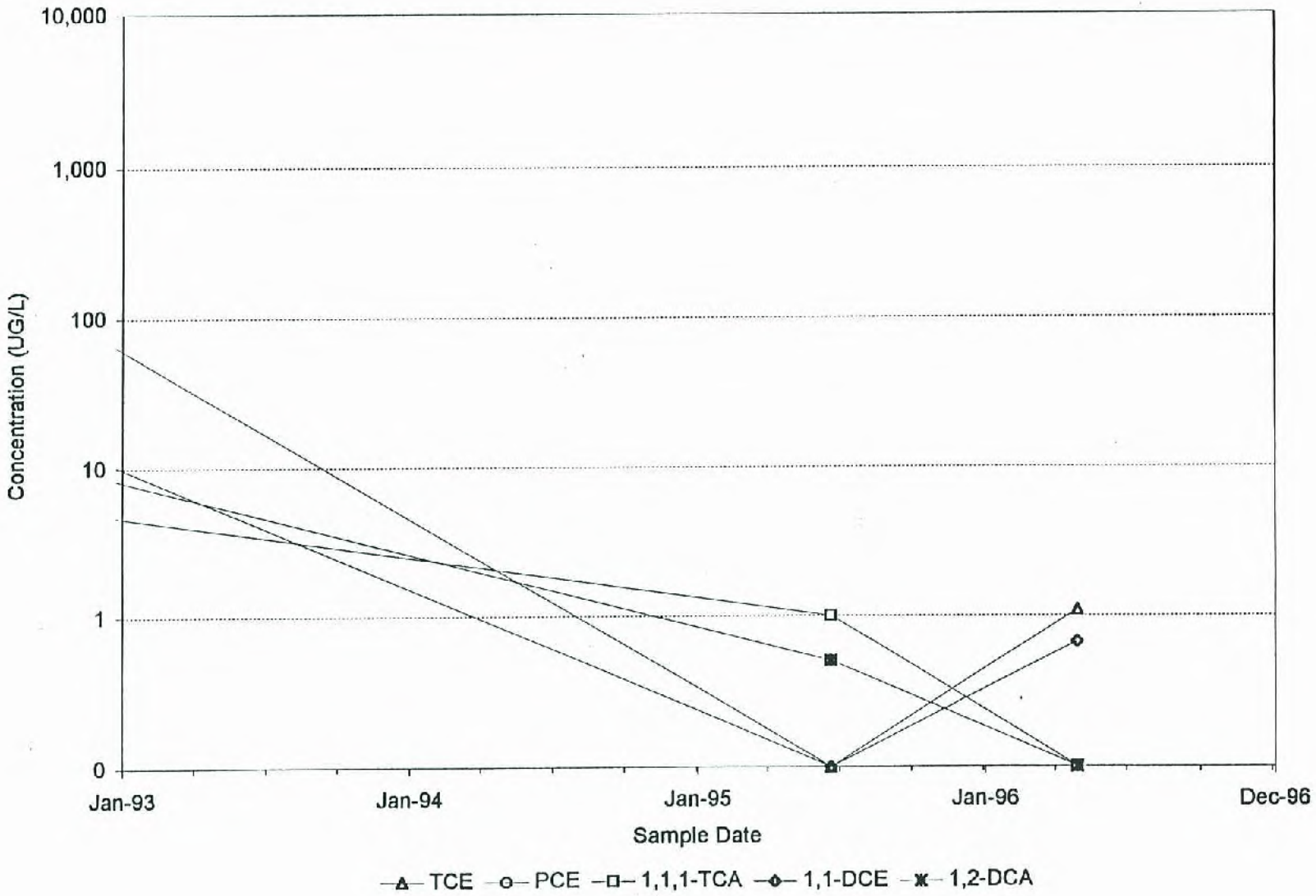
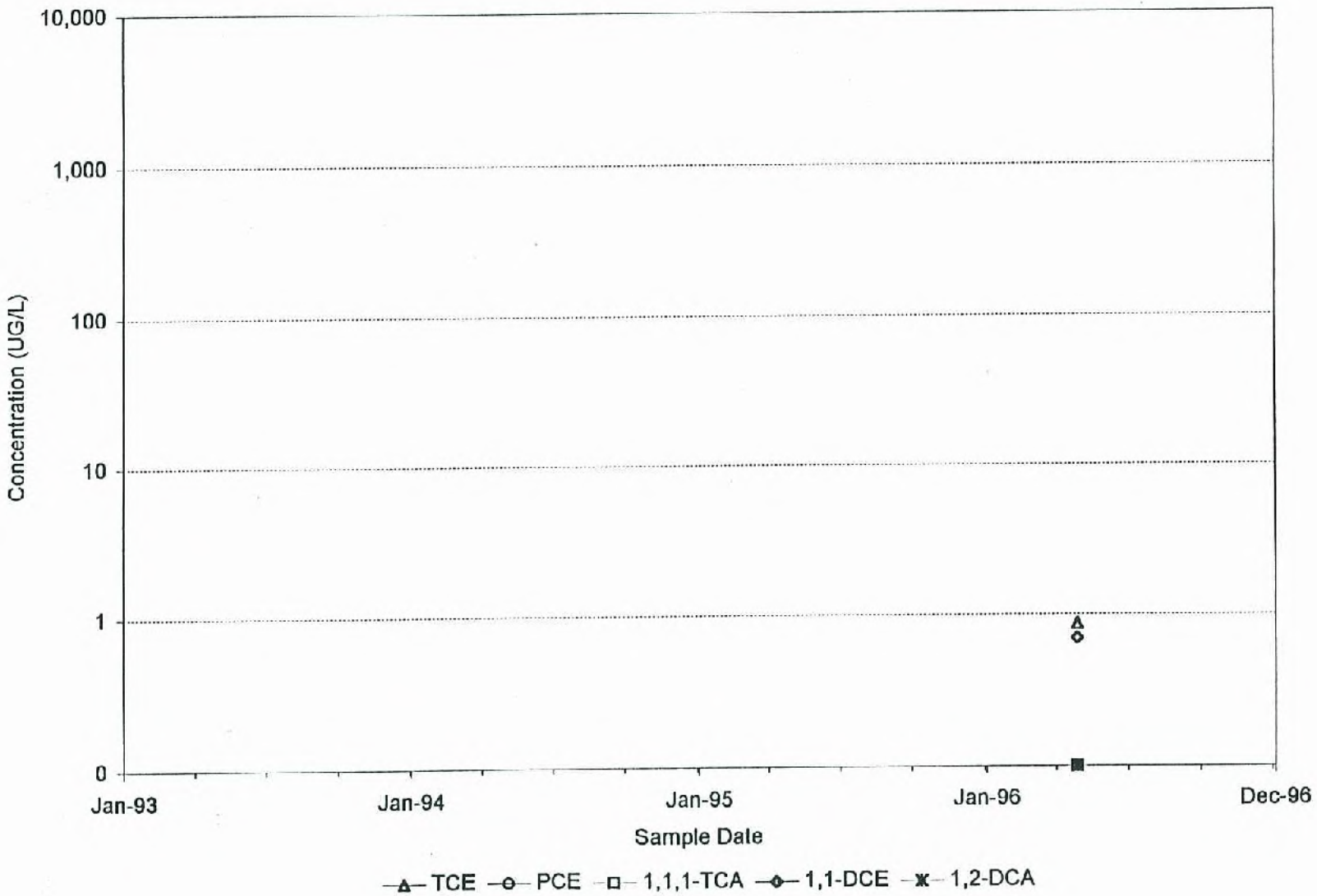
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA


WATER QUALITY GRAPH
MW-04
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA

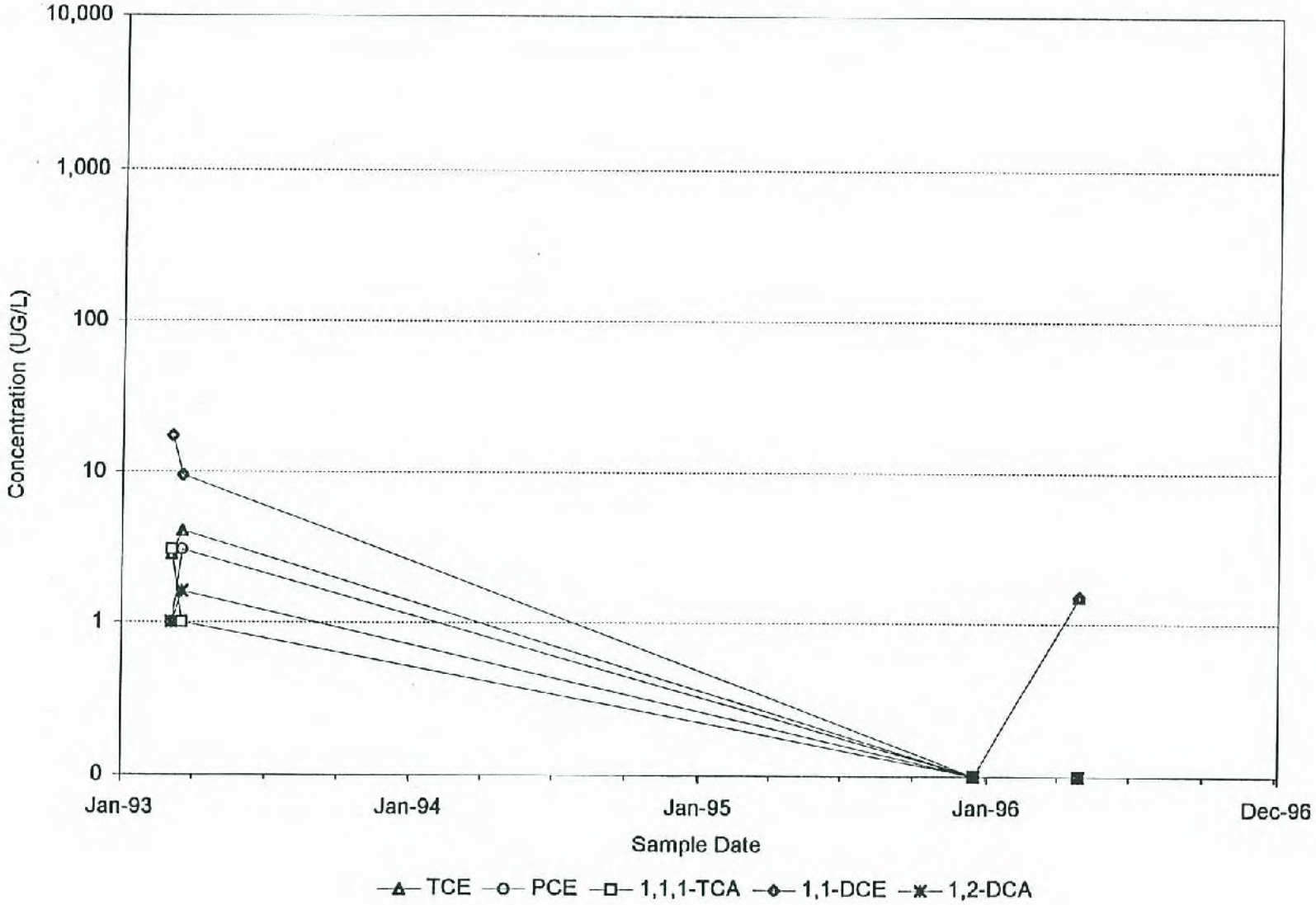
WATER QUALITY GRAPH
MW-06

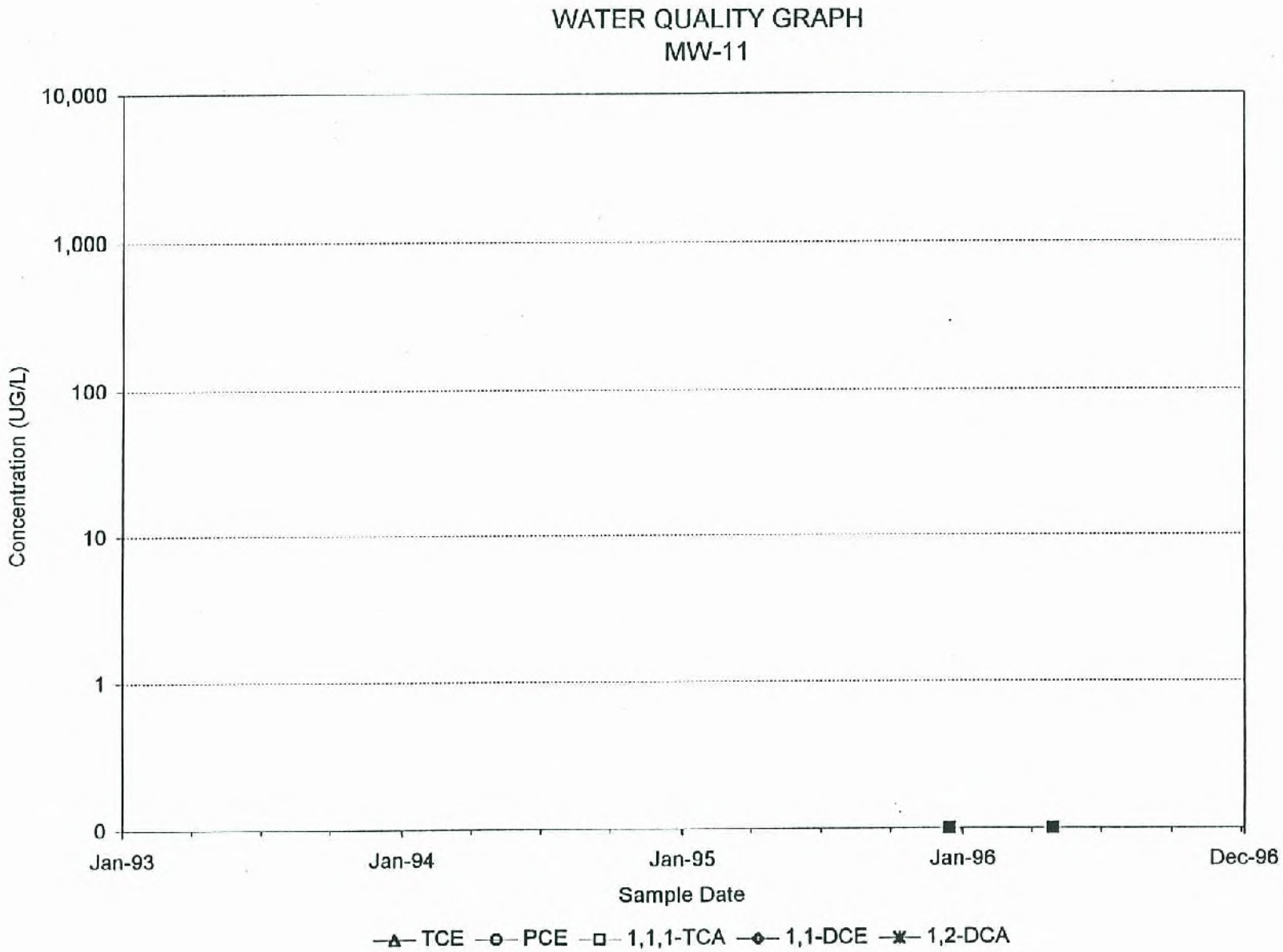


WATER QUALITY GRAPH
MW-07

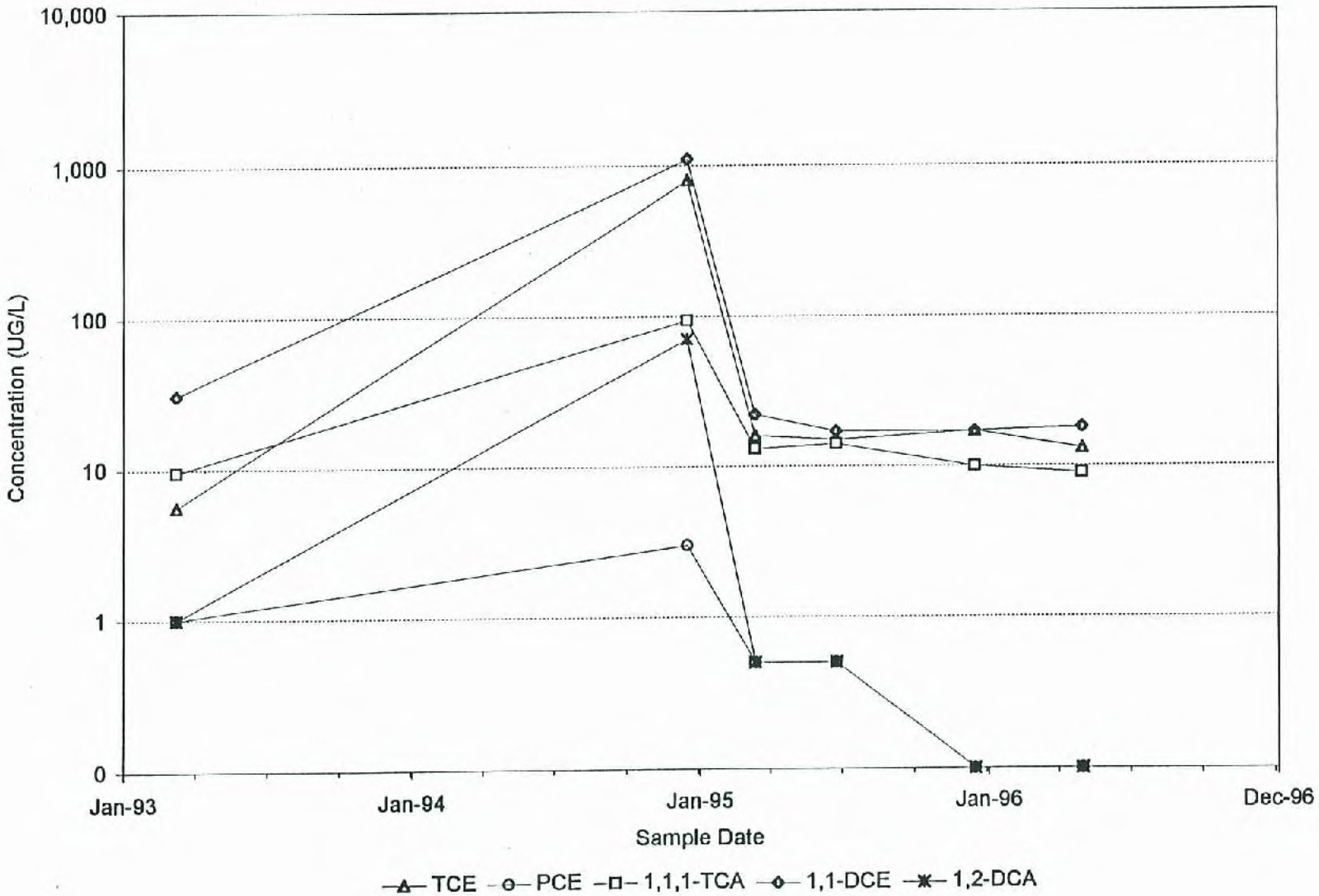


WATER QUALITY GRAPH
MW-10

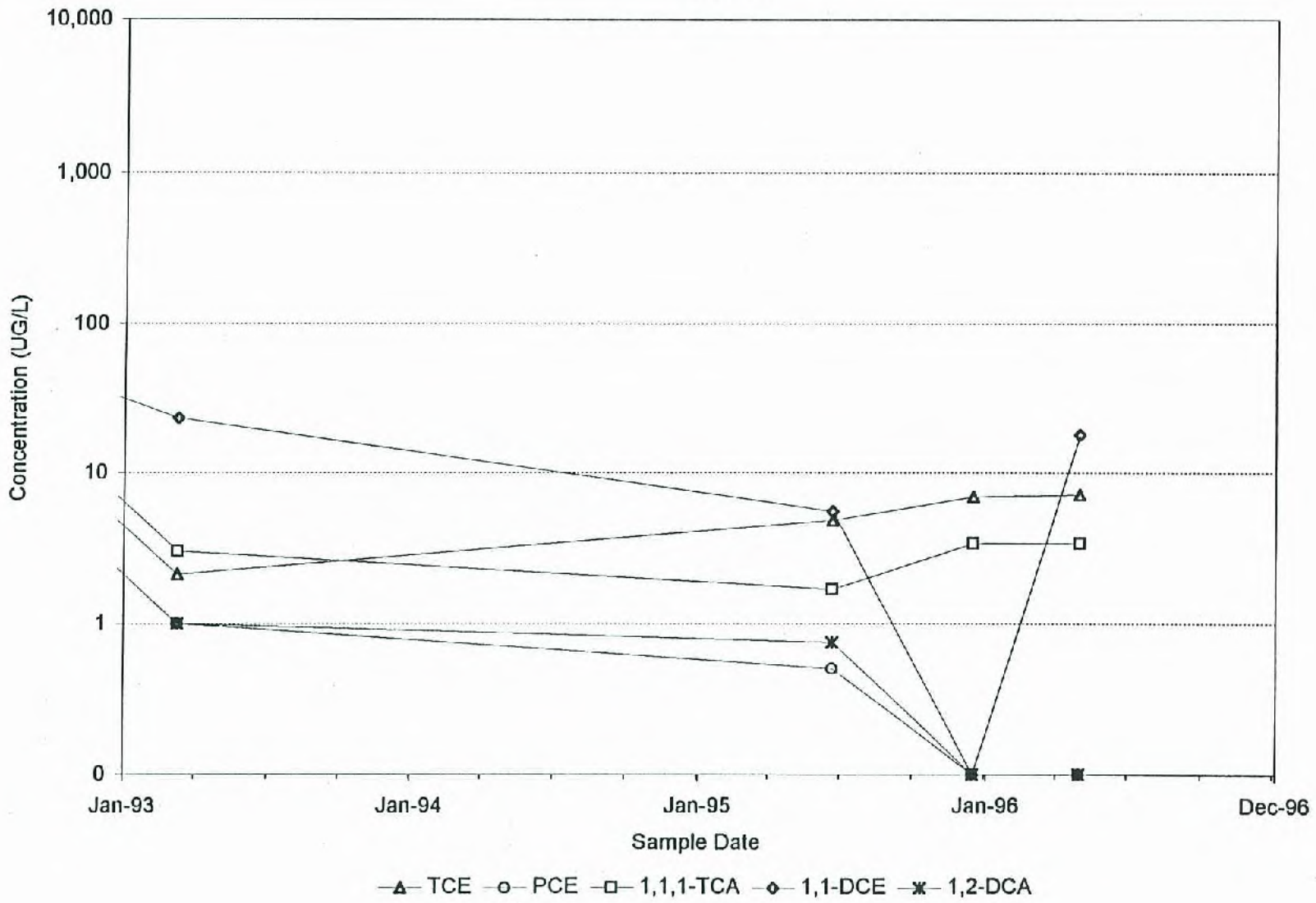


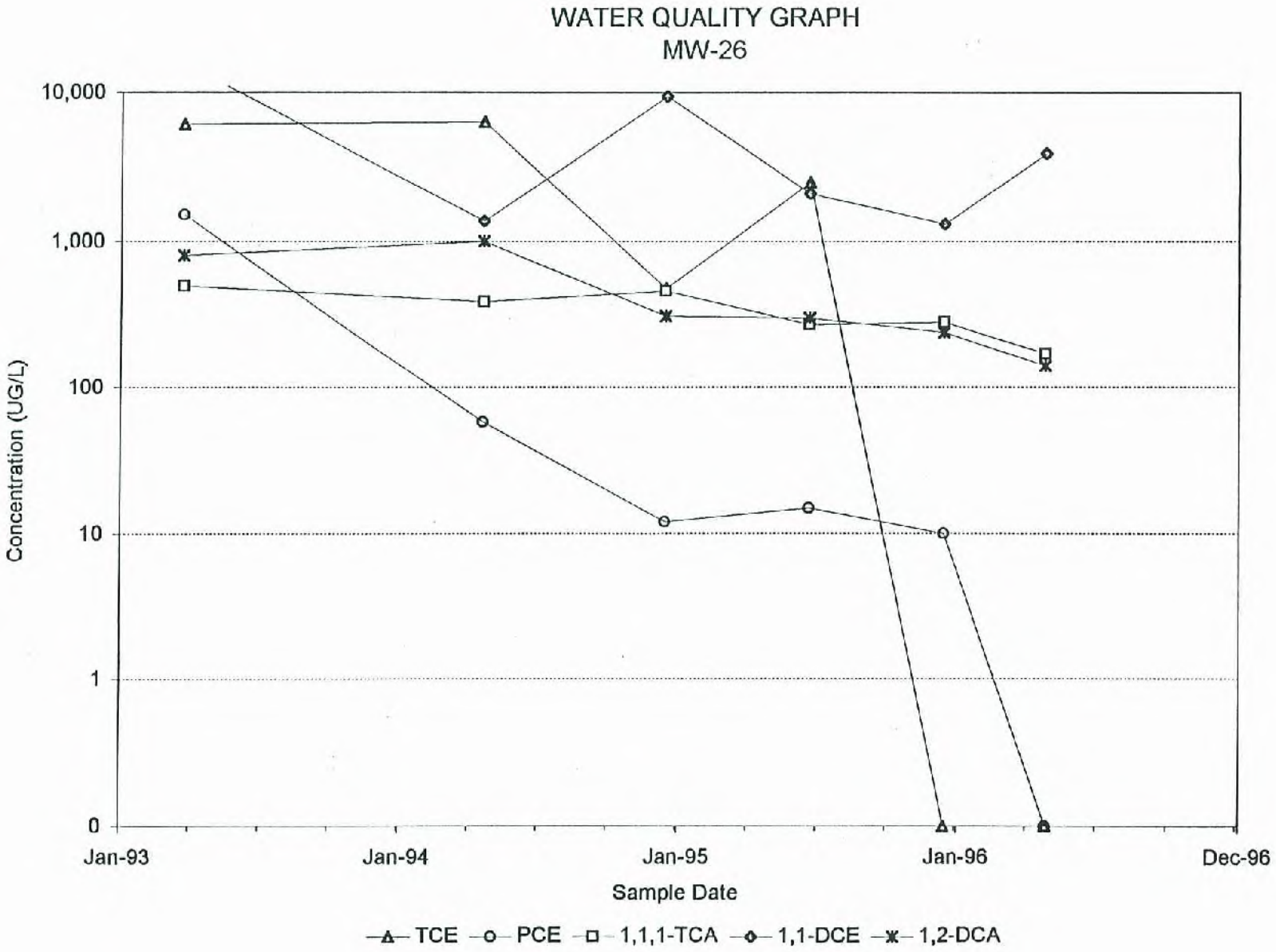

WATER QUALITY GRAPH
MW-11
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA

WATER QUALITY GRAPH
MW-17



WATER QUALITY GRAPH
MW-19




WATER QUALITY GRAPH
MW-26
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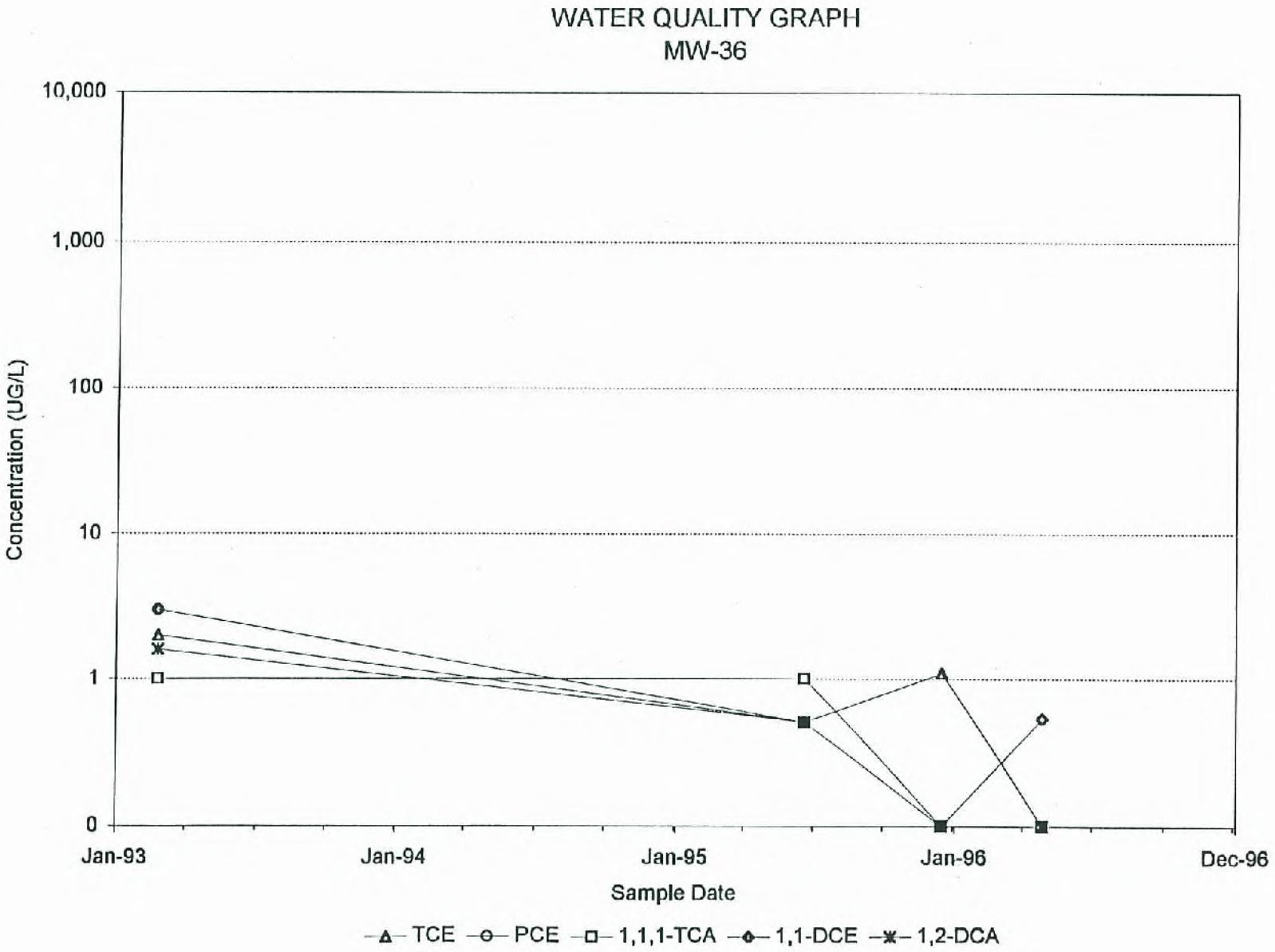
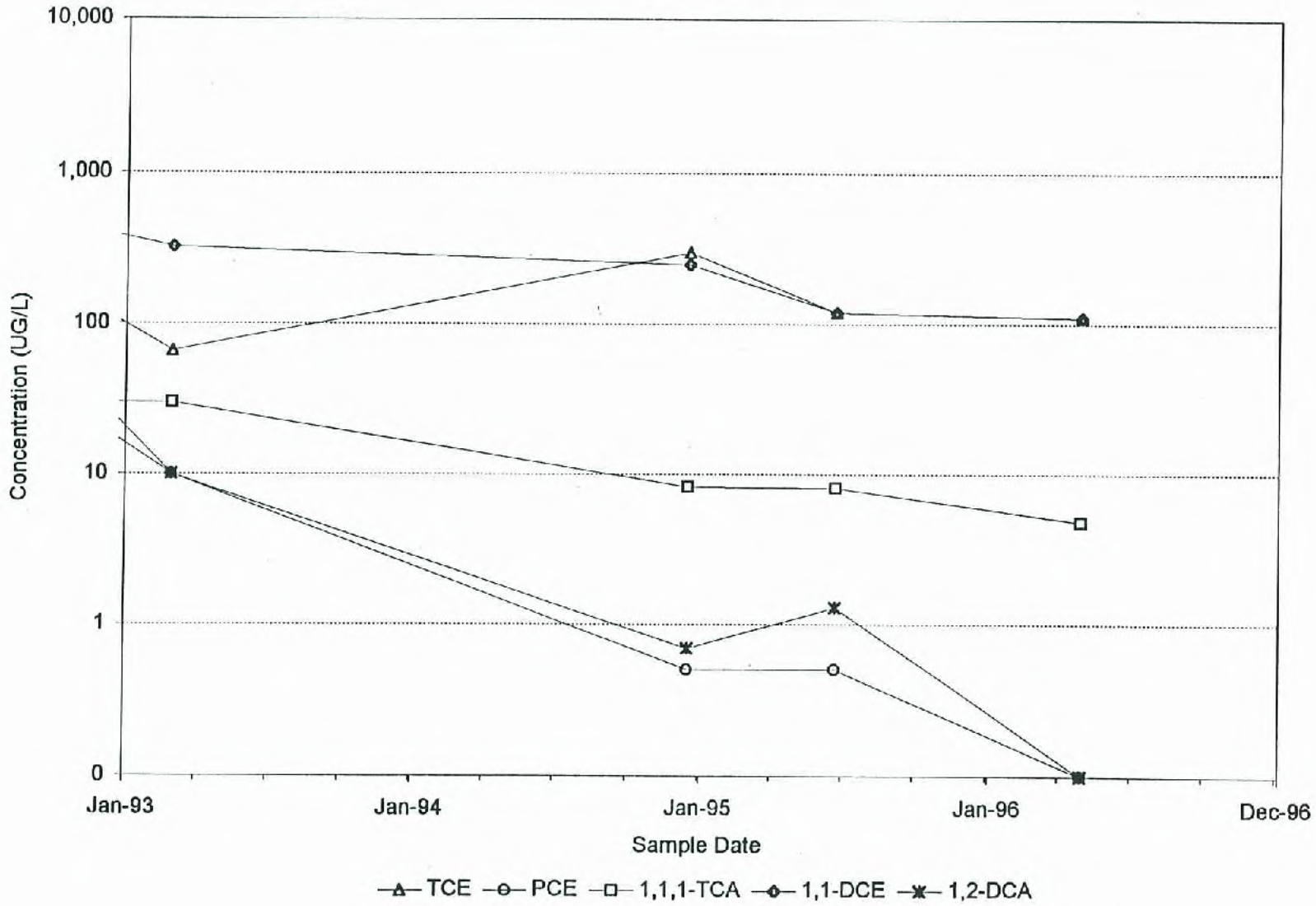
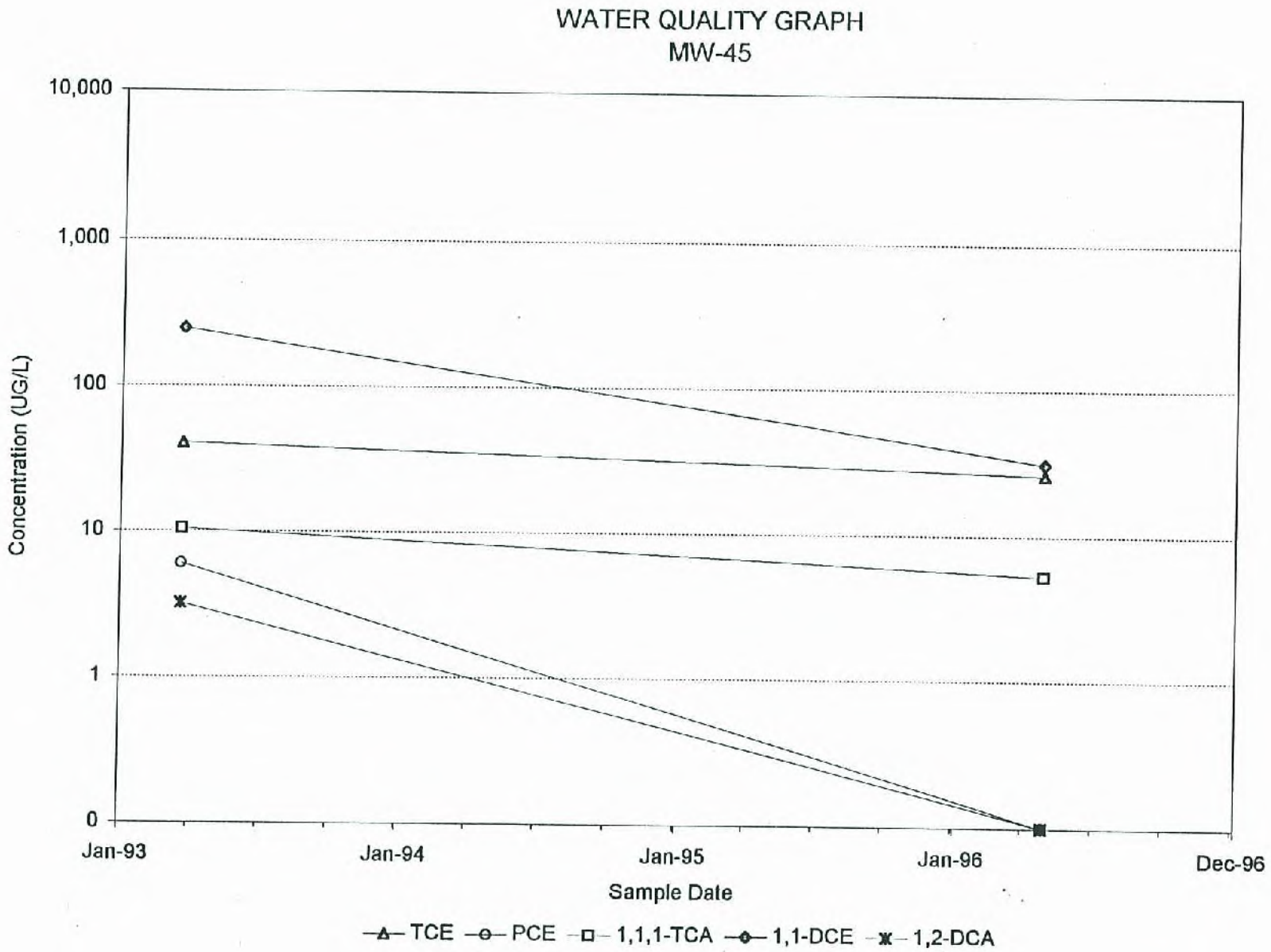
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA

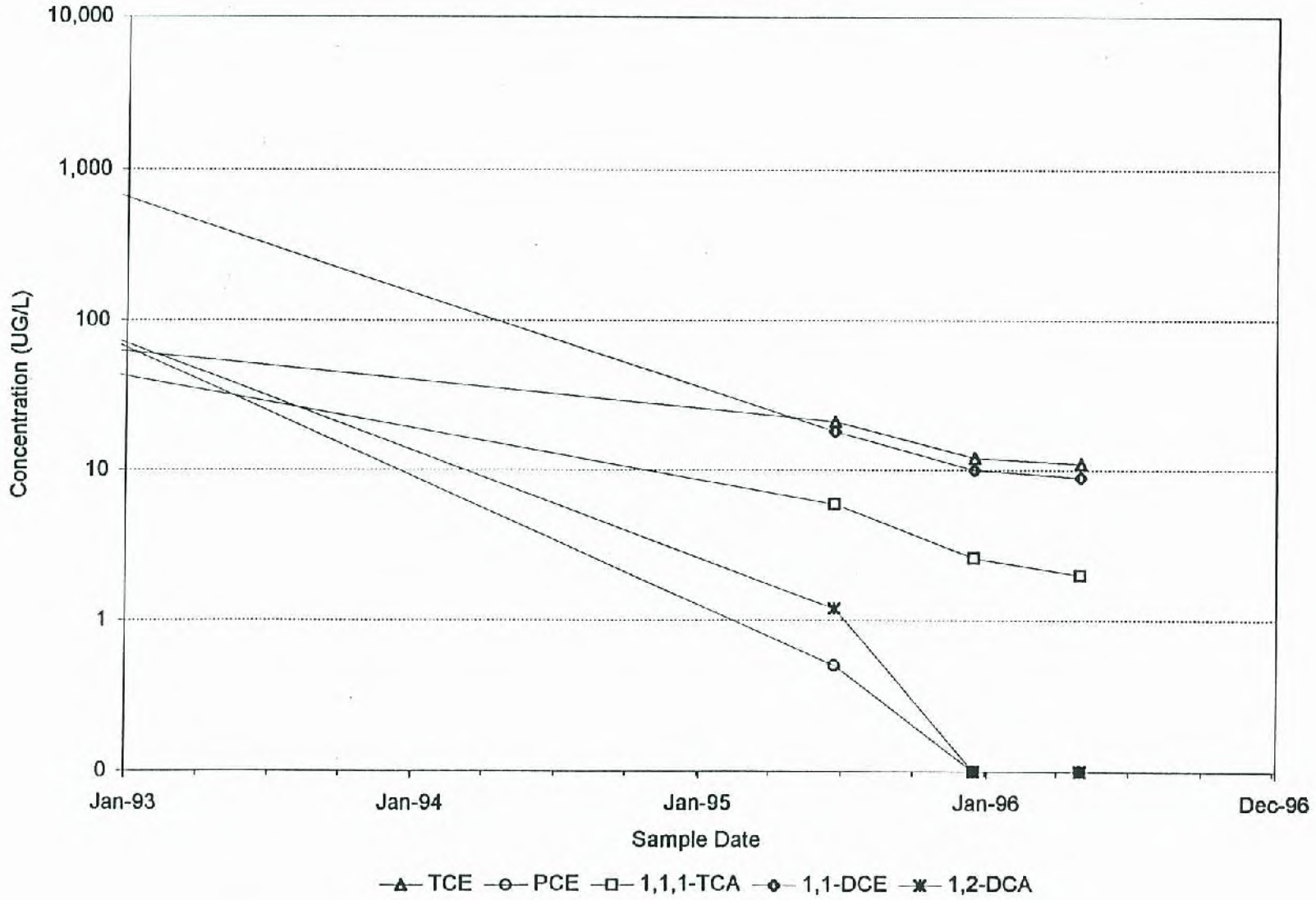

WATER QUALITY GRAPH
MW-36
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA

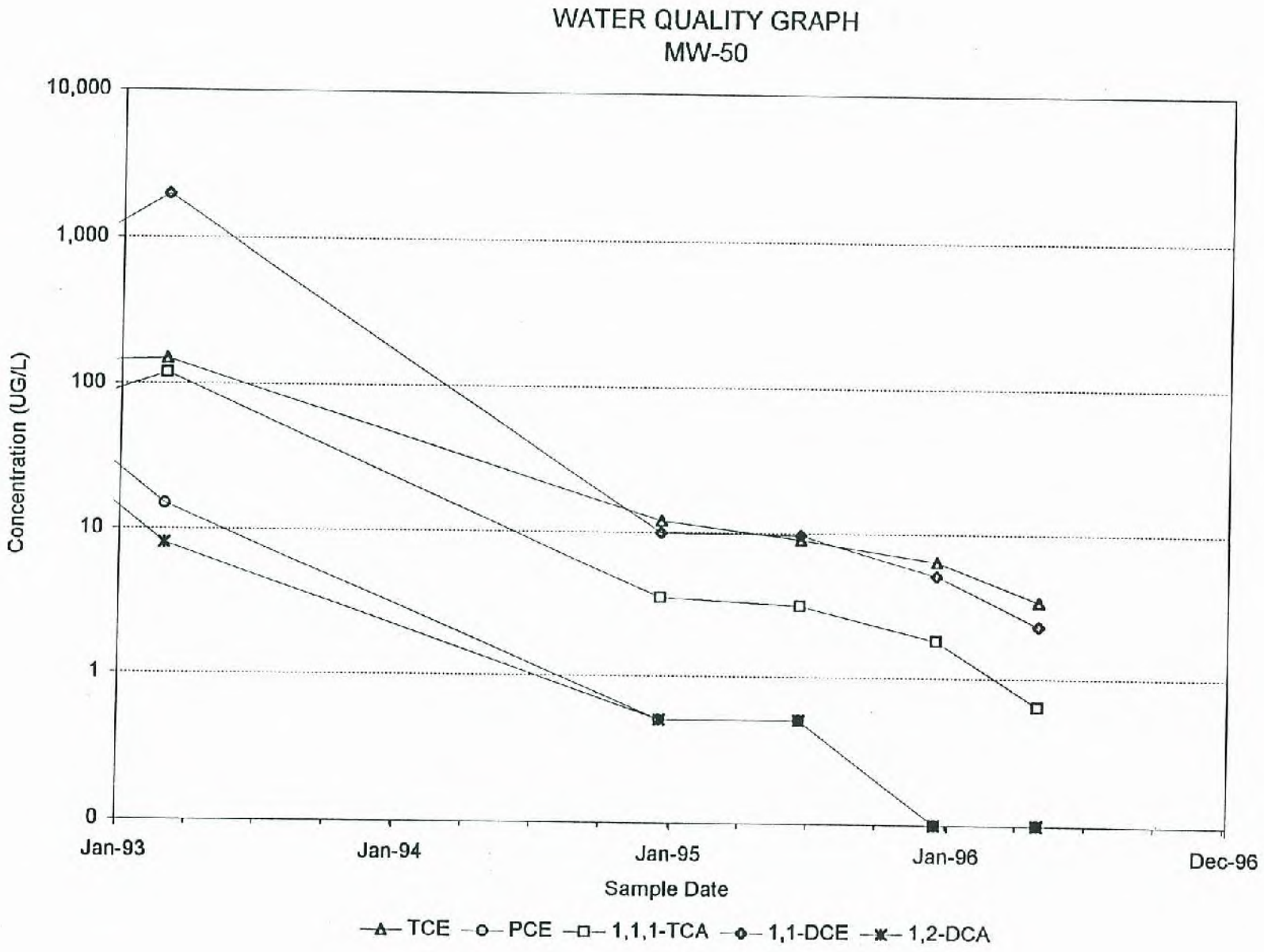
WATER QUALITY GRAPH
MW-41

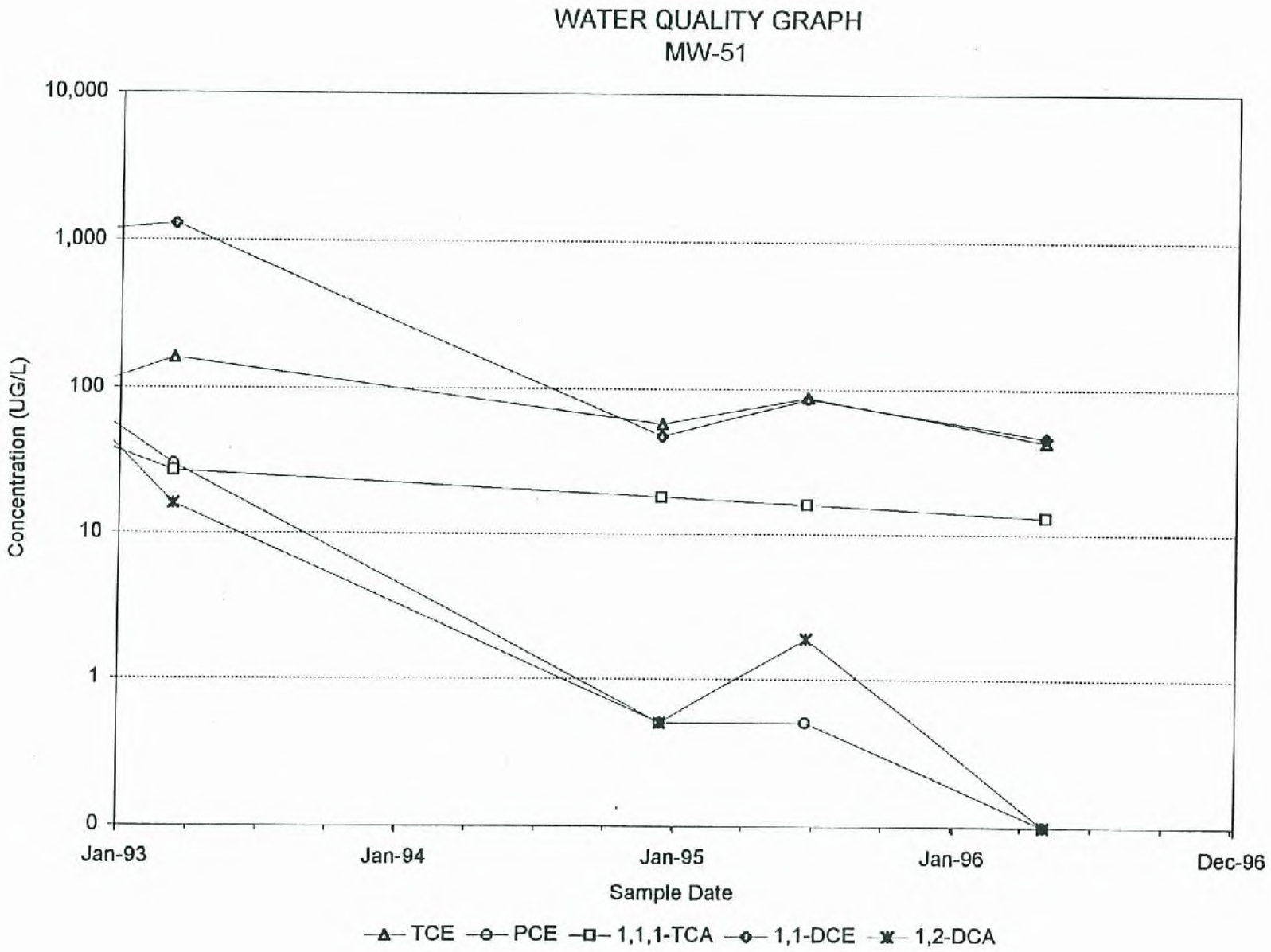



WATER QUALITY GRAPH
MW-45
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA

WATER QUALITY GRAPH
MW-49




WATER QUALITY GRAPH
MW-50
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA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MW-51
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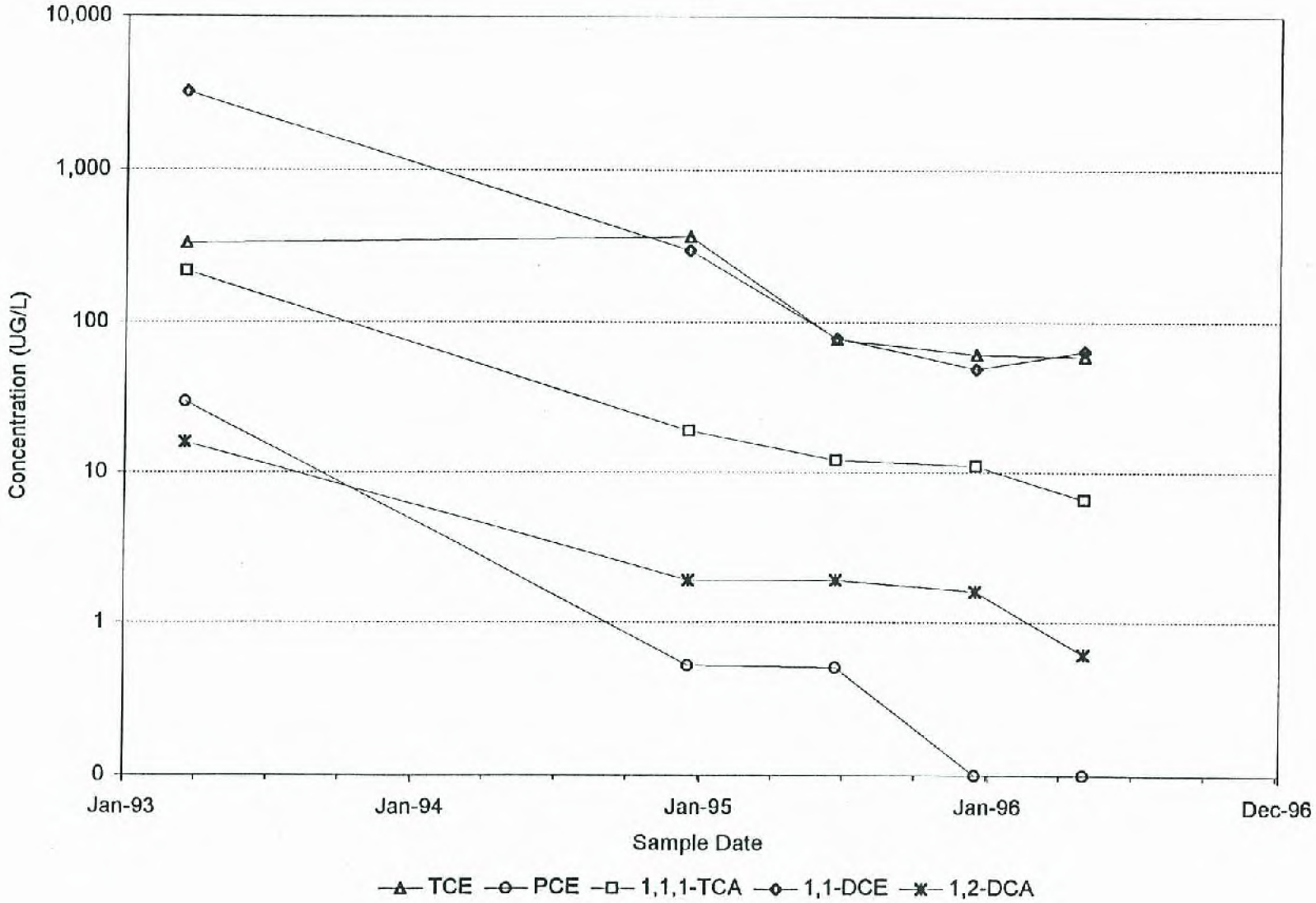
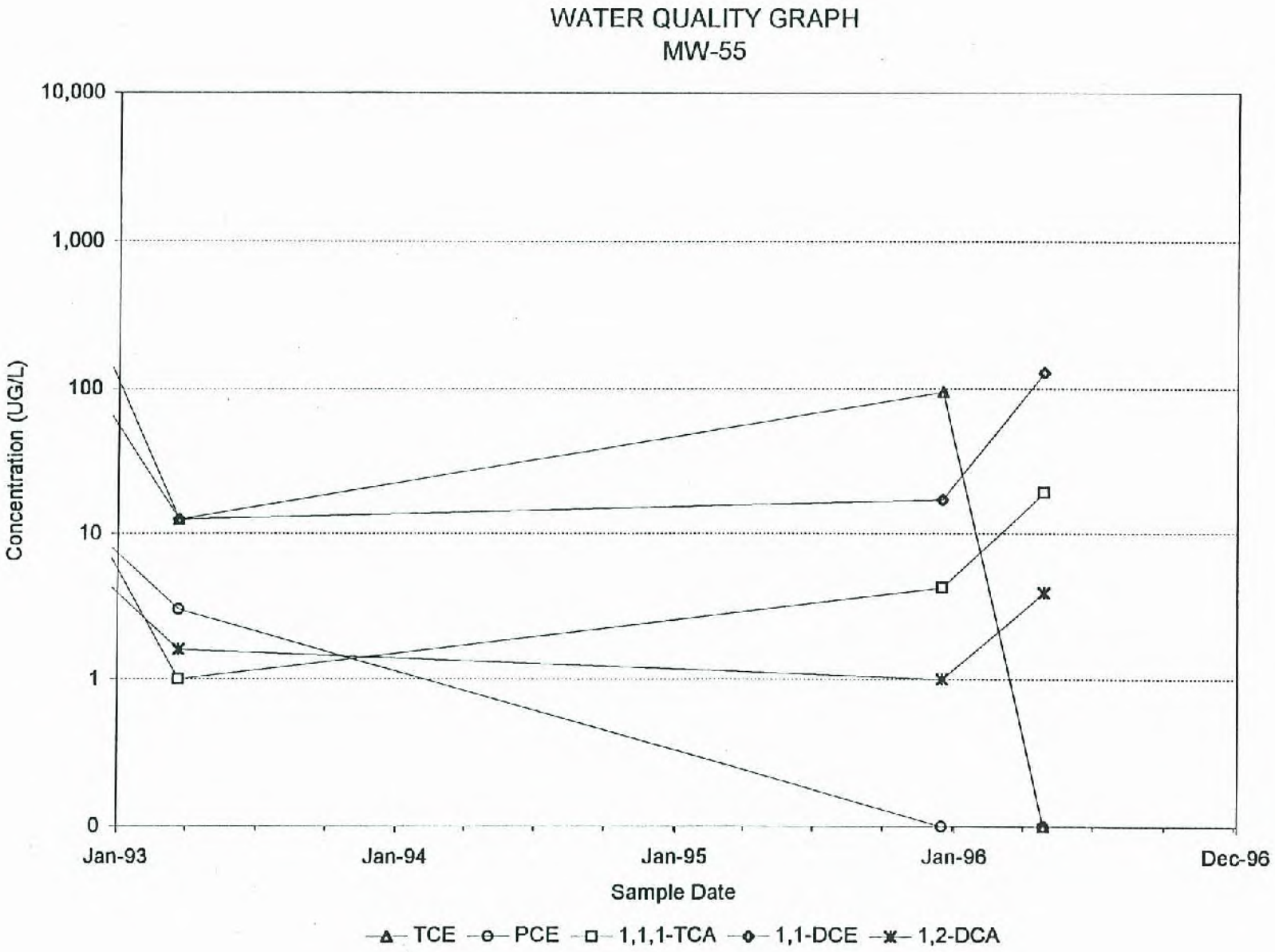
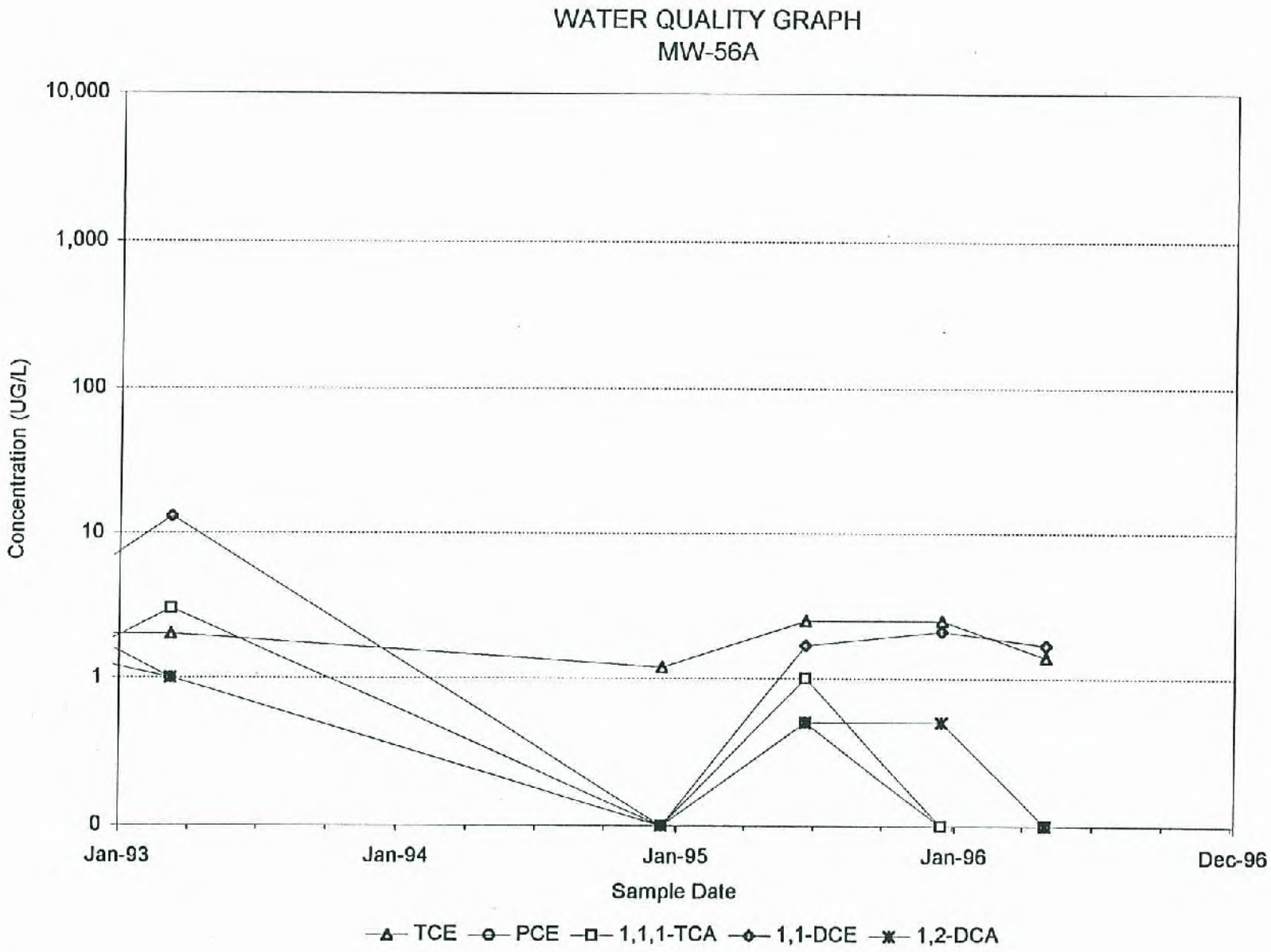
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA

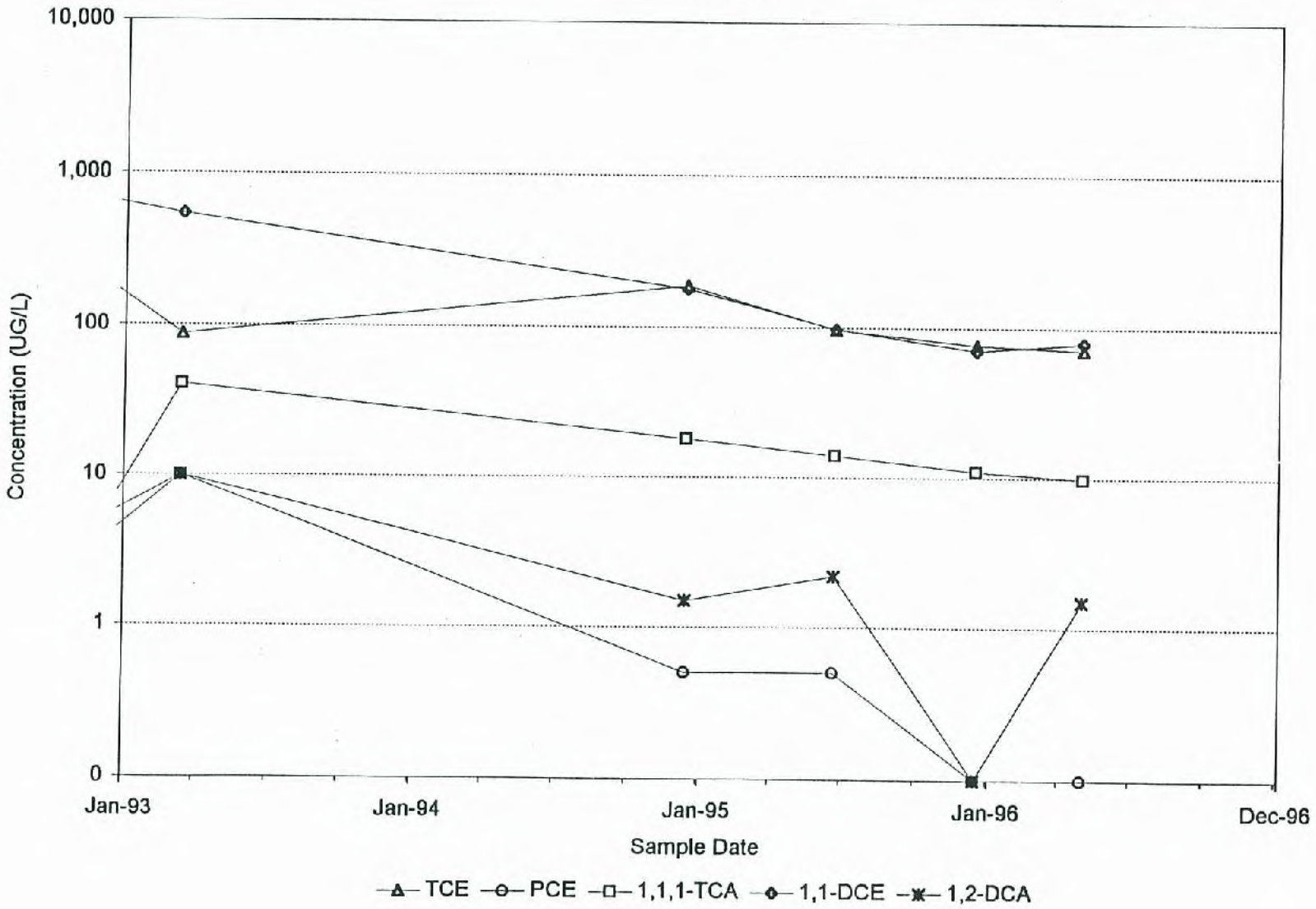
WATER QUALITY GRAPH
MW-52

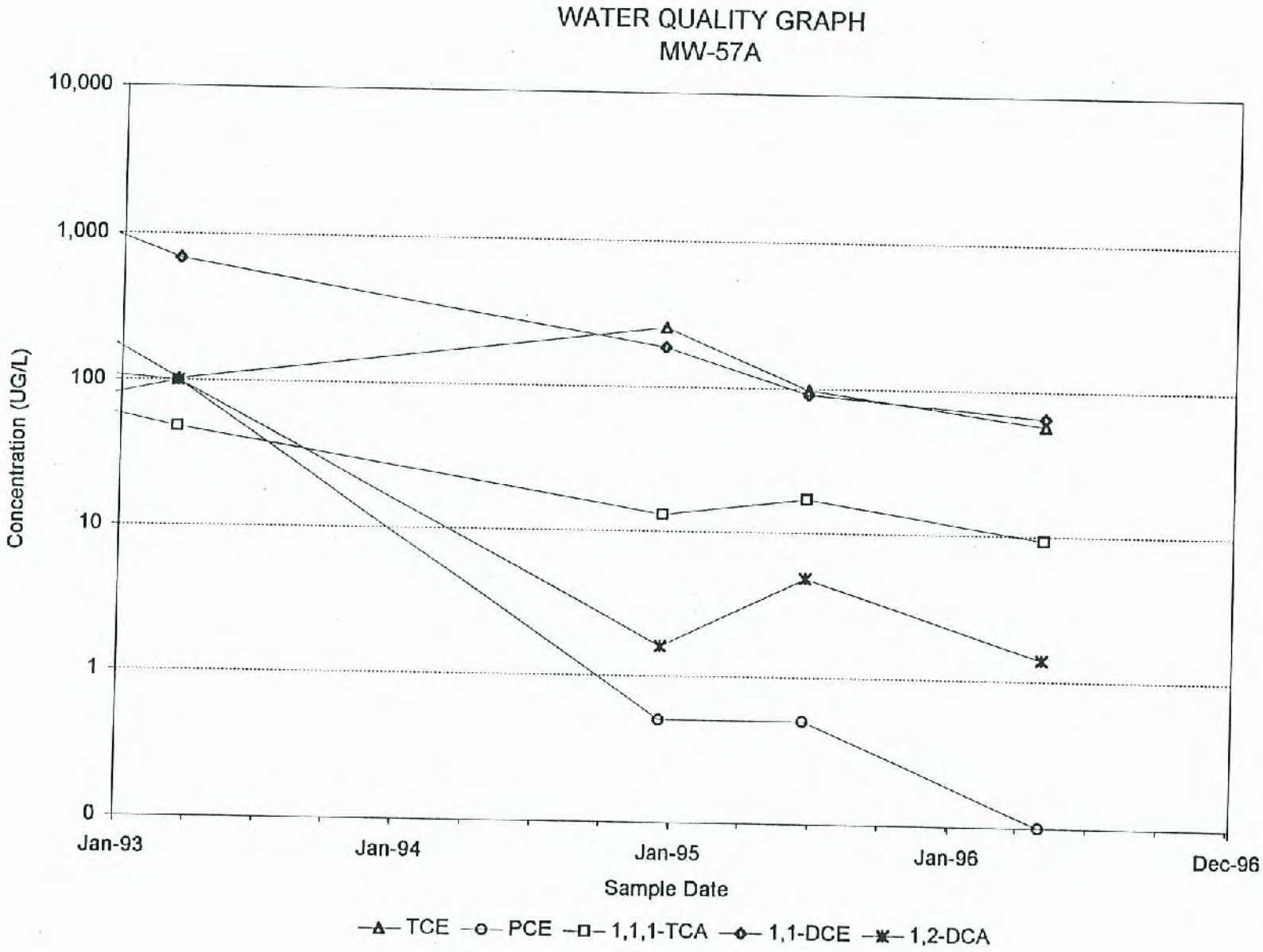



WATER QUALITY GRAPH
MW-55
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA


WATER QUALITY GRAPH
MW-56A
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA

WATER QUALITY GRAPH
MW-56C

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1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
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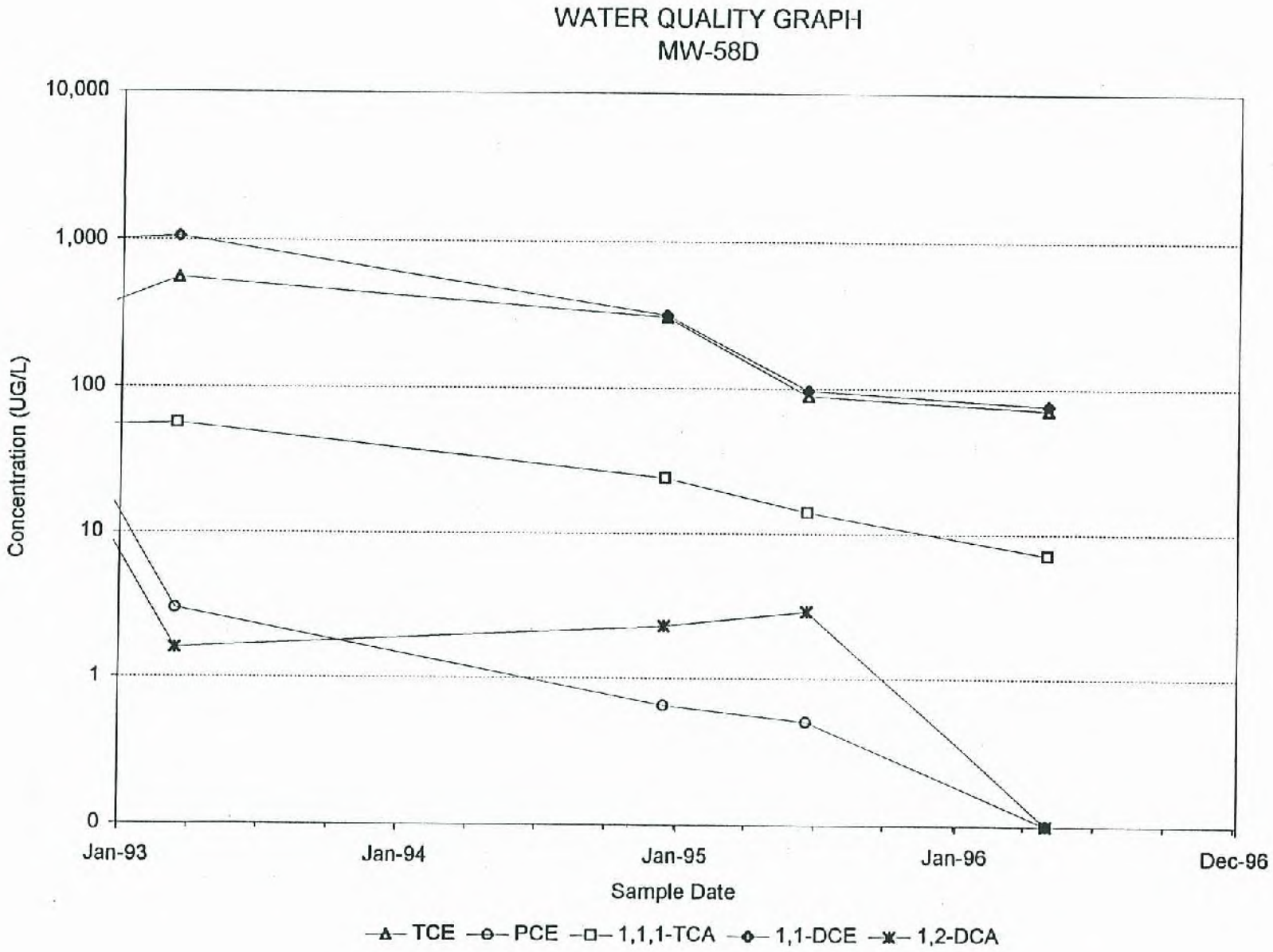
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA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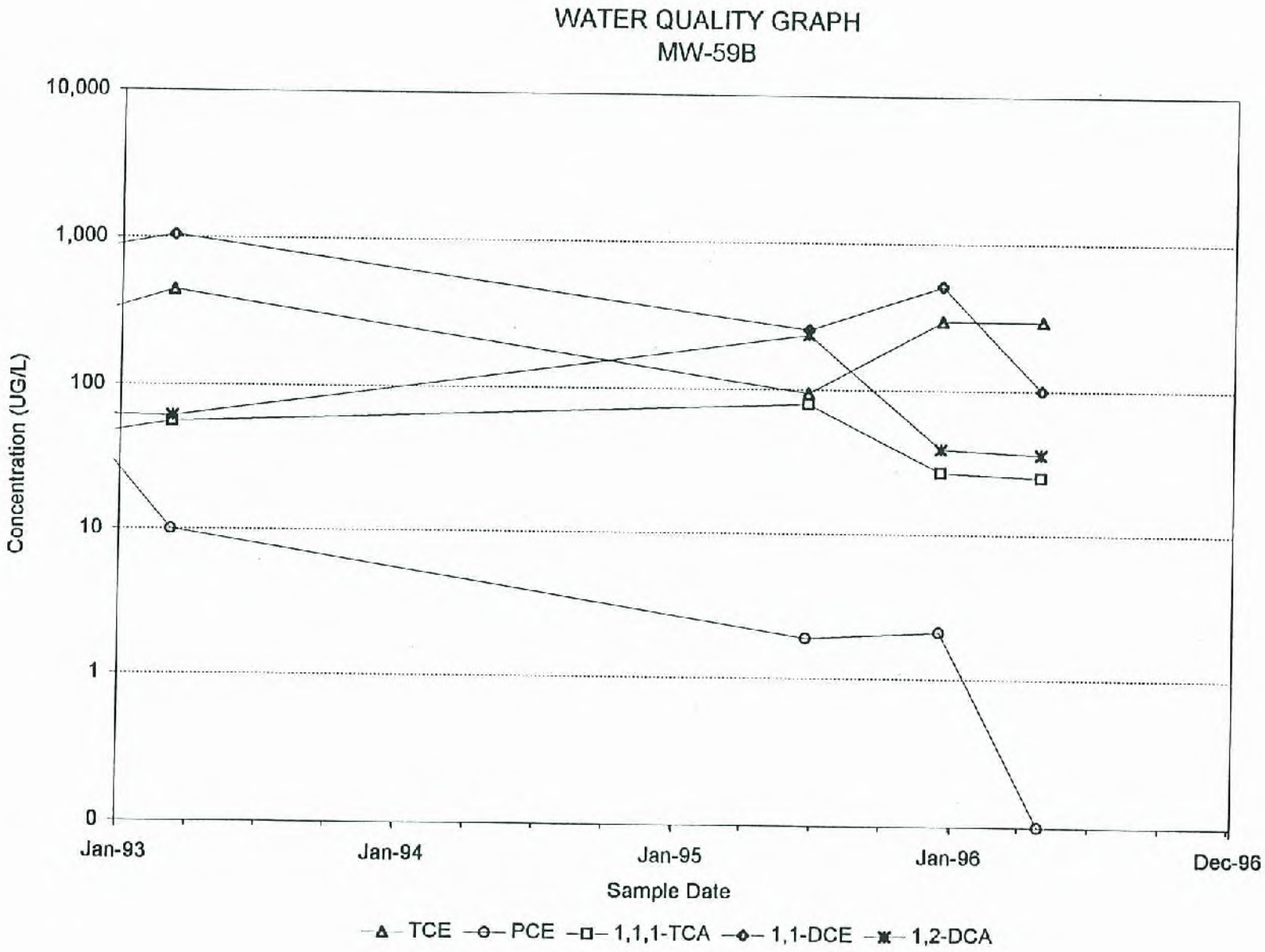
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA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100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
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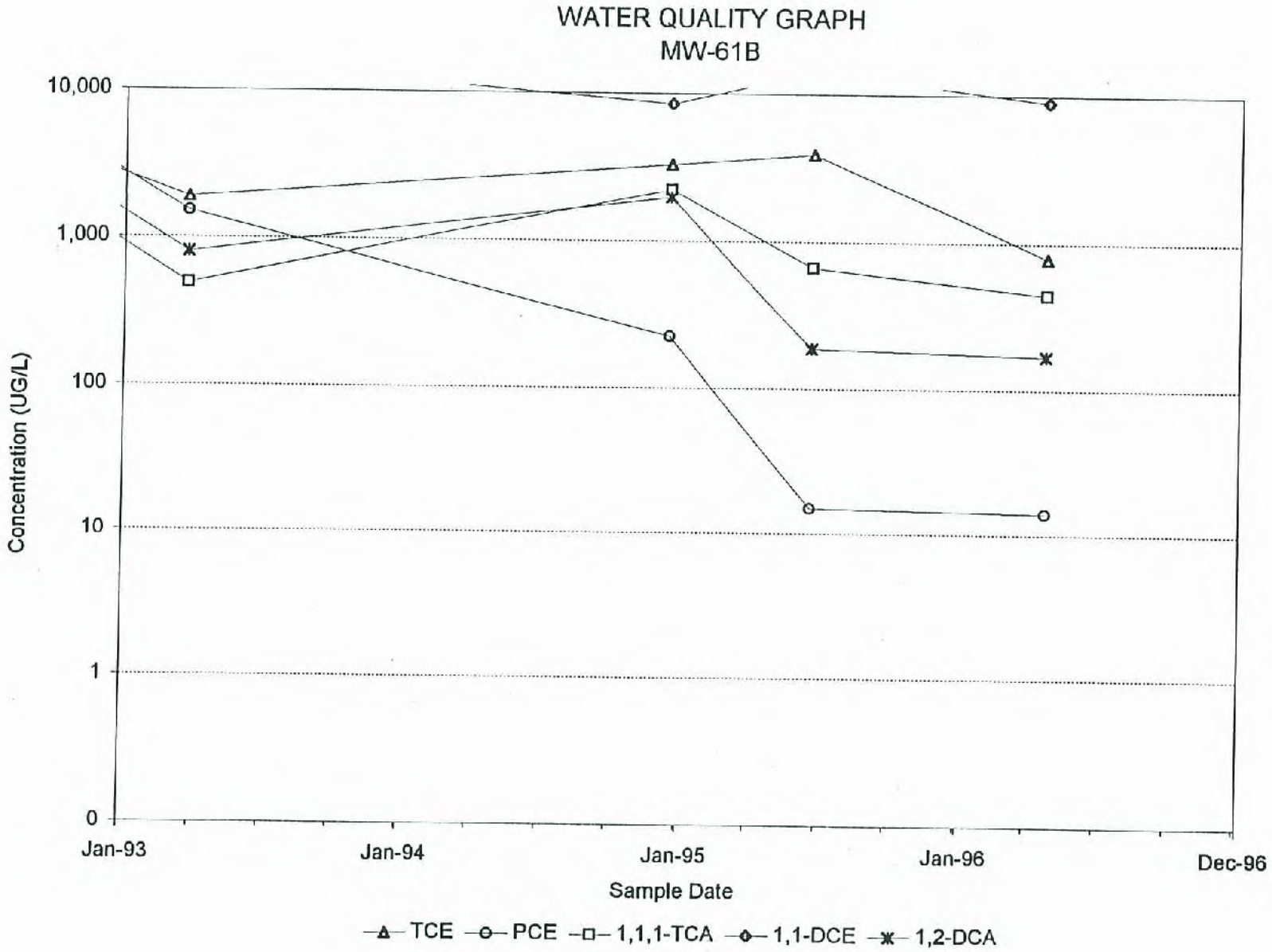
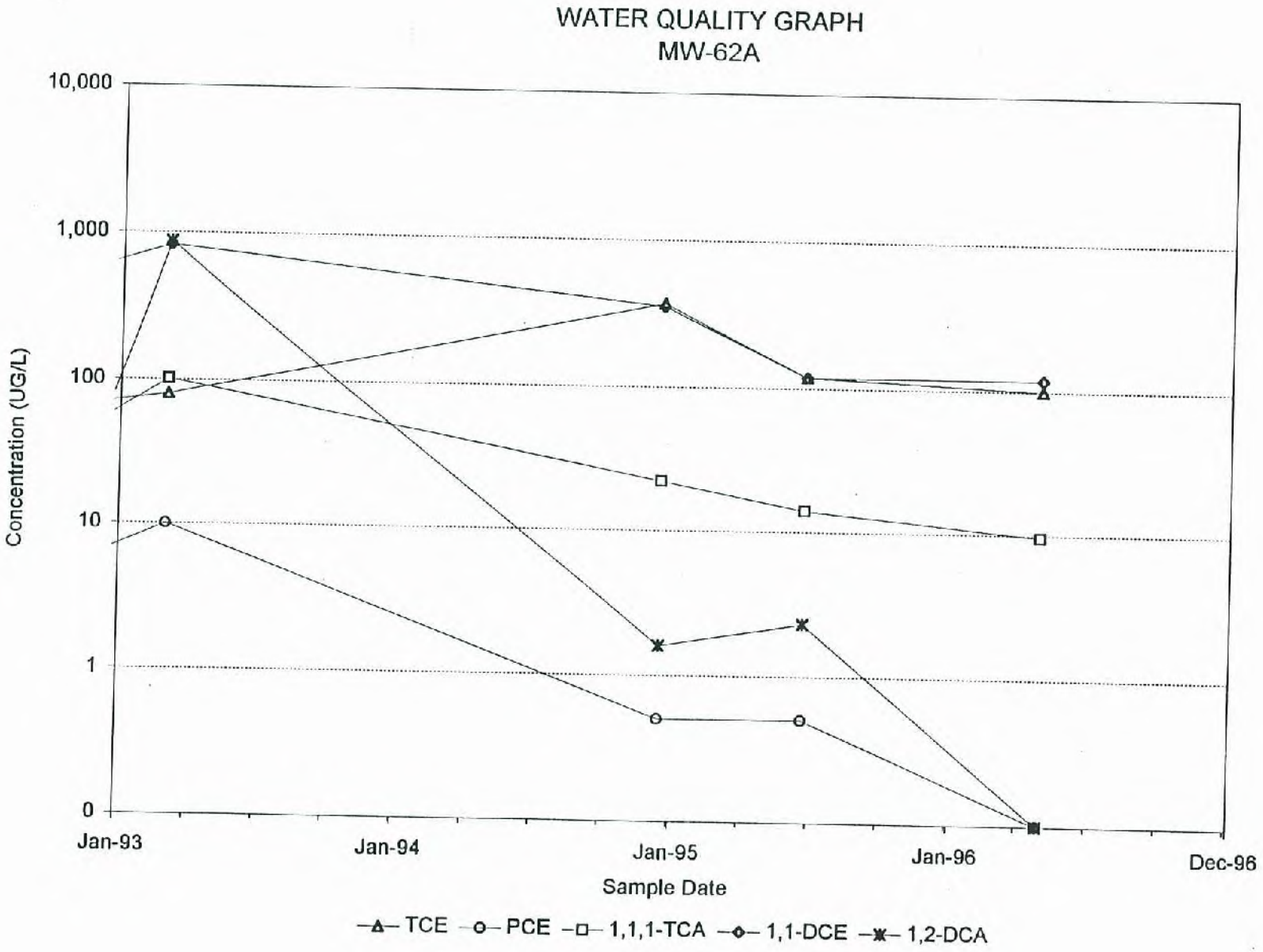
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA


WATER QUALITY GRAPH
MW-61B
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA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MW-62A
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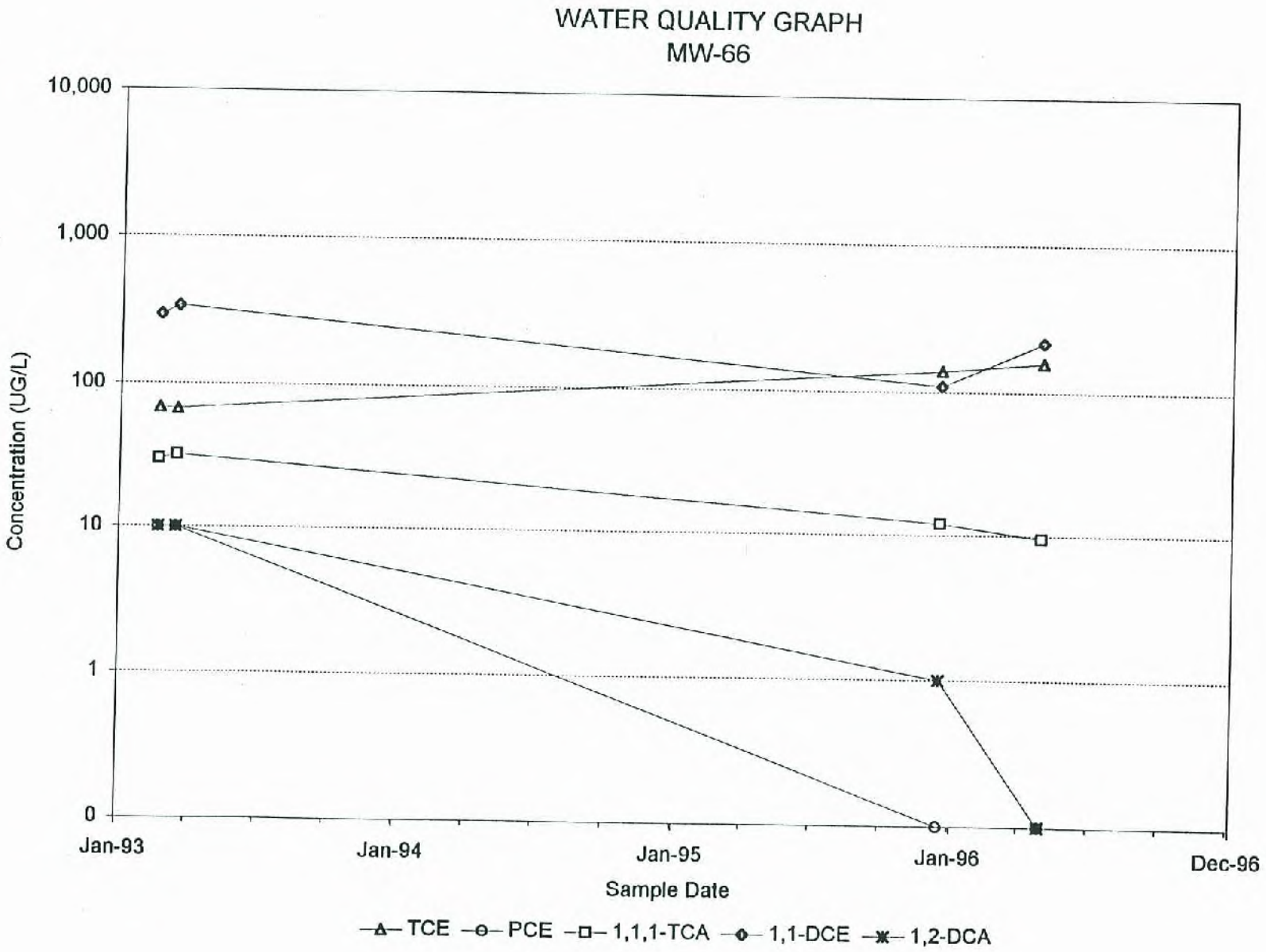
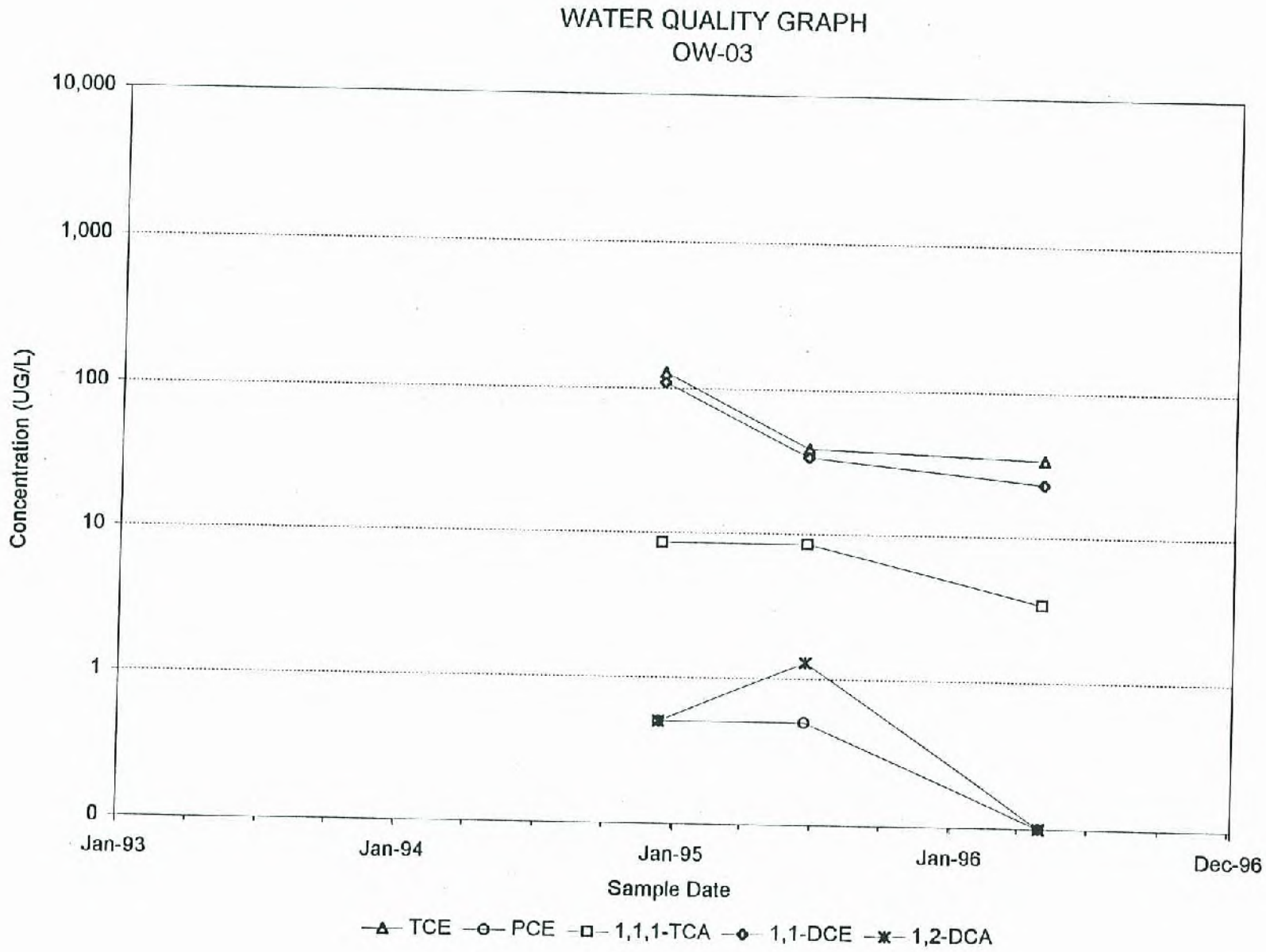
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA


WATER QUALITY GRAPH
MW-66
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA


WATER QUALITY GRAPH
OW-03
10,000
1,000
100
10
1
0
Concentration (UG/L)
Jan-93
Jan-94
Jan-95
Jan-96
Dec-96
Sample Date
TCE
PCE
1,1,1-TCA
1,1-DCE
1,2-DCA

APPENDIX D

STANDARD SAMPLING PROCEDURES

STANDARD OPERATING PROCEDURE (SOP)
BEAUMONT #1 SEMI-ANNUAL GROUND WATER SAMPLING
APRIL 1996

1.1 GENERAL STATEMENT

Representative groundwater samples will be collected for chemical analysis. Stabilized groundwater parameter measurements and/or purged groundwater volume will be the criteria used to indicate that representative aquifer samples are being collected. Samples will be analyzed for VOCs according to EPA Method 8010 by BC Analytical Laboratory in Glendale, CA.

QA/QC will be accomplished by following the procedure described in this SOP, health and safety procedures (HASP), attending the daily tailgate meetings,and the Beaumont QA Program Design (Section 2.0).

1.2 OBJECTIVE

In general, data resulting from the collection and analysis of groundwater samples will be used to monitor the distribution of chemical compounds and/or constituents in the hydrogeologic units of study. In addition, groundwater samples may be collected to satisfy the following objectives: 1) monitor the effects of containment/reclamation operations during remedial activities; and 2) confirm or refute anomalous analytical results from a previous sampling event.

1.3 EQUIPMENT AND/OR INSTRUMENTATION

Basic purging and sampling equipment will consist of a 2-inch GRUNFOS submersible pump, water level meter, YSI 3500 water quality parameter kit, Photovac air monitor, disposable sampling bailers, hoses, and tanks to capture and transport purge water for treatment.

The pH meter will be recalibrated in pH 4 and pH 10 buffer standards before use at the start of each day or whenever the meter has been turned off. The pH 7 standard will be used when check calibration between each well. Calibration are recorded on the pH Meter Calibration Log. The calibration checks can be added

to the field data sheet comments.

The conductivity meter is calibrated using 0.781 @ 25.0 EC standard solution. The EC standard will be used at the start of each day and whenever the meter has been turned off. Calibrations are recorded on the EC Meter Calibration Log.

Measurements of EC, pH and temperature will be recorded on the groundwater sampling field data form.

Samples will be collected from the discharge of the submersible pump. In low-yield wells that have been purged nearly dry and which recharge at a very slow rate, a disposable Teflon bailor may be used to collect the groundwater samples after sufficient recharge has occured. All samples will be collected in pre-acidified, 40-ml glass vials. Equipment operation and calibration procedures are described in Section 2.0.

Samples will be refrigerated at 4 degrees Centigrade. A log of daily refrigerator temperatures will be maintained.

1.4 PURGING PROCEDURE

- At the wellhead, turn on the Photovac and place it where it could monitor any vapors in the area of the wellhead. Record wellhead, background, and purge water readings on the fieldsheet;
- Leather work gloves should be worn to prevent cuts and scratches. Visually inspect the wellhead for spider webs, as black widow spiders are common in the wellheads and vaults;
- Set up the purging and sampling equipment including the 115V/220V generator and extension cord;
- Check to see that the generator has enough gasoline. Wear plastic gloves and safety glasses while handling gasoline;
- Measure depth to water in the well. Use the data, the construction table, and the purge volume table to calculate three purge volumes for each well. Add this volume to the flowmeter reading to determine the purge volume target. Record the calculations on the field data sheet;
- Carefully drop the submersible pump and hose into the well until it reaches the bottom of the well, then raise the pump approximately 5 feet and secure the reel mount;
- Try to purge three purge volumes. If the well is too deep for the pump and hose to reach bottom, then use parameter

measurements to verify sufficient purge amounts. Be sure that purged water is going into the purge tank.

- Take frequent water level measurements and consult the pumping data from the previous sampling round, if available, to determine if the well is low-yielding. If the recharge rate is good, ensure that the measured field parameters pH, EC, and temperature have stabilized and that the flowmeter target has been attained;
- If the recharge rate is slow, decrease the pumping rate. Try to avoid pumping any well completely dry. The burnpit area wells (EW-13, EW-15, EW-16, EW-18, MW-26, MW-59B, and MW-61B) will probably go dry anyway. See sampling procedure below.

1.5 SAMPLING PROCEDURE

- A field blank must be prepared each day at a designated well. Prepare three VOA's of laboratory-approved organic-free water for analyses approximately 10 minutes before the regular samples are to be collected and be sure to record the sample time as earlier than the regular sample. Make a record in the Field Blank Log;
- Reduce the submersible pump discharge to a gentle flow just prior to collecting samples;
- If the well pumped dry, allow the well to recharge as much as possible (one or two days) before collecting the sample. Use a teflon bailer and reel to collect the sample;
- Record the sampling time on the field data sheet and sample labels;
- Collect three headspace-free water samples per well;
- If the well is a QC well, collect field duplicate and MS/MSD samples. DVP is not required for Beaumont wells. Make a record in the Duplicate Sample Log and MS/MSD Sample Logs;
- In addition to the regular QC duplicate samples, create 3 VOA's for a disquised duplicate and identify acoording to the pre-determined designation (MW-16, MW-33, or MW-67;
- Decontaminate the internal area of the pump and hoses (Section 1.7) and, for QA wells, collect three equipment blank VOA's;
- Seal the samples with custody seals and pre-printed label;
- Wrap the vials in bubble wrap, then place samples in a ziplock bag and immediately store in an ice chest;
- Upon completion of sampling, shut down the pump and generator when the minute hand reaches "00". Record the time the pump was shut off, the final flowmeter reading, and

calculate the final purge volume and average pump rate;

- Record chain-of-custody documentation at each sample location. Request an 8010 analysis.
- Immediately after each groundwater sample is collected, either bring the sample to the refrigerator in the trailer for storage or arrange to have the samples picked up.
- Place three trip blank VOA's in the refrigerator along with the first groundwater sample collected during the round and after the first group of samples has been shipped. Record the blank on the Trip Blank Log;
- Samples will be stored in the onsite refrigerator until they are packaged and delivered to the laboratory by either courier or field personnel.

1.6 EQUIPMENT DECONTAMINATION AND DISPOSAL PROCEDURES

After each well is purged, decontaminate the pump by triple washing: first pump five gallons of tap water and soap (alconox or TSP), then five gallons of tap water, then five gallons of distilled water. If a QC well has been purged, collect 3 VOA's of the distilled water rinse for an equipment blank. Rinse water and purge water will be contained and transported to the water treatment system. The discharge will be noted in the Groundwater Tracking Log. The water will be treated by the stripper system and reinjected into the ground.

1.7 DOCUMENTATION

All entries on field data forms will be kept as a permanent record. Erroneous entries will be corrected by crossing a line through the error, entering the correct information, then initialing by the person making the re-entry. All forms and labels will be completed with water-proof ink. Samples will be packaged in sealed containers for transport and dispatched to BC Analytical for analysis with a signed chain-of-custody record. The goldenrod COC copy is given to the Beaumont project coordinator.

2.0 BEAUMONT QA PROGRAM DESIGN

2.1 Purpose

A variety of samples will be collected at a total of three QA wells in order to document the quality of data generated. Following are a description of the sample types and the information that they will provide:

Field Duplicate - A second sample collected in the field at the same time from a given well. This sample documents the variability of the field sampling process.

MS/MSD - A second sample collected in the field at the same time from a given well. This sample is spiked in the laboratory in duplicate to document variability within the lab as well as matrix effects.

Field Split - A second sample collected in the field at the same time from a given well. This sample can be analyzed to document variability within the lab or between labs if a second lab is being used.

Field Blank - A sample of certified organic free water that is poured into sample containers on the sample site. This sample documents any potential contamination from the sampling process.

Equipment Blank - A sample of the final deionized water rinse from the pumping apparatus. This sample documents potential cross contamination from the sampling equipment.

Trip Blank - A sample of certified organic free water from the laboratory is stored in proximity to chilled groundwater samples during holding and shipping. This sample documents any potential contamination from handling and shipping procedures.

Routine Sample - MW-17
Field Duplicate - MW-40-FD
Field Blank - MW-40-FB
Laboratory Split - MW-40-LS
MS/MSD - MW-40
Equipment Blank - MW-40-EB
Trip Blank - LTB-DATE-TEAM NO.
Disguised Duplicate - MW-16, MW-33, or MW-67

3.0 EQUIPMENT CALIBRATION PROCEDURES

3.1 MicroTIP HL-2000 Calibration

- **Open the valve** on the gas bag by turning the valve stem fully counterclockwise;
- **Attach the flexible tubing** from the gas bag to the calibration gas tubing adapter;
- Turn the regulator knob counterclockwise about half a turn to **start the flow of gas;**
- **Fill the gas bag about half full** then close the regulator fully clockwise to turn of the flow of gas;
- Disconnect the bag from the adapter and empty it. **Flush the bag and then refill it;**
- **Close the bag** by turning the valve clockwise;
- Press **CAL** and enter the desired response factor of 1.0; **Press ENTER;**
- **Expose MicroTIP to zero air. Press ENTER** and MicroTIP sets its zero point;
- MicroTIP then asks for span gas concentration; **ENTER 100** then connect the gas span bag adapter to the inlet;
- **Press ENTER** and MicroTIP sets its sensitivity;
- **When MicroTIP's displays reverts to "READY"**, MicroTIP is calibrated and ready for use. **Remove the span gas bag from the inlet;**
- Record the reading on the MicroTip Calibration Log.

3.2 YSI 3500 pH Meter Calibration

- Connect both temperature probes to the meter;
- Select pH setting, with shorting cap on terminal;
- Turn the CALIBRATE knob all the way to the left, then all the way to right, then adjust knob to the center of its range. Repeat with the SLOPE knob;
- With the shorting cap still in place, use the CALIBRATE knob to adjust the pH reading to 7.0;
- Remove shorting cap and connect the pH probe;
- Turn selector to pH ATC (Automatic Temperature Compensation);
- Rinse the pH probe and both temperature probes with DI water and gently shake off the excess;
- Immerse pH and temperature probes into the pH 4.0 solution;
- Use the CALIBRATE knob to abject the pH reading to 4.0;
- Rinse probes with distilled water and gently shake off the excess;
- Immerse pH and temperature probes into the pH 10.0 solution;
- Use the SLOPE knob to adjust to 10.0;
- Immerse pH and temperature probes into the pH 7.0 solution;
- Record the time, measurement, and standard used in the pH Meter Calibration Log;
- Dispose of the used buffer solutions in the yellow HAZARDOUS WASTE trash bag. NEVER RE-USE THE SOLUTIONS at another well;
- Attach the small bottle containing 7.0 pH standard to the end of the probe when not in use.

3.3 YSI 3500 Conductivity Meter Calibration

- Fill a container (such as a 250 ml wide-mouth container for nitrate samples) with 0.781 @ 25.0 degrees electroconductivity (EC) solution;
- Rinse the conductivity and both temperature probes with DI water and gently shake off excess;
- Immerse the gray probe to the middle of the knurled (ridged) section, along with the temperature probes into the container of conductivity fluid;
- The number on the meter is in micromohs/centimeter, so multiply by 1000 and record the conductivity value, time, measurement, and standard on the EC Meter Calibration Log;
- Calibrate the conductivity meter prior to the start of the day, after each time the meter has been turned off, and after the sampling is complete;
- Wrap the electrode with a moist towel and place in a baggie whenever the meter is not in use;
- The standard may be re-used.

Attachment "A"
Scope of Work
For
Analytical Services
1996 Groundwater Assessment/Characterization

This Scope of Work (SOW) is based upon the Beaumont 1 Routine Sampling Schedule for 1996 Groundwater Assessment/Characterization, Beaumont 1. The Beaumont 1 site is located near Beaumont, California (see attached Figure 1).

Groundwater field sampling is conducted biannually, during the months of April and October 1996. The samples will be analyzed for Volatile Organic Compounds (VOCs) by using EPA Method 8010.

BCA will provide 40 ml glass vials preserved with 1:1 HCL, coolers, clean-organic free water for field blank preparation, and analytical services for groundwater samples. LM personnel will contact BC Analytical (BCA) two weeks prior to field activities to collect samples from the thirty-two (32) monitoring wells. BCA will provide sample bottles and coolers to the designated sampling team prior to the sampling event. During the field sampling round (April 22 to 30, and October 20 to 30, 1996), BCA will also provide the carrier service to pickup the samples from the Site.

Quality Assurance/Quality Control samples will be prepared and analyzed as part of the analytical service. LM personnel on an as-needed basis will collect Field quality control (QC) samples.

Two types of quality control (QC) samples will be submitted to BCA for analysis:

- Field blanks, prepared from water provided by BCA; and
- Trip blanks provided by BCA in 40 ml vials, using the same organic-free laboratory blank water.

BCA will retain one VOC vial containing blank water from each batch prepared for LM until the associated blanks have been analyzed. If VOCs are detected in the blank samples, the BCA-retained blank will be analyzed to aid in determining if the contamination occurred in the laboratory or the field.

BCA will submit the analytical results in **Batch QC Report (BCA Level II Report)** in two formats: standard reports and electronic files on 3.5" DOS formatted diskette in tab delimited ASCII format. The results, in both formats shall be received by Lockheed Martin Corporation within **20 calender days** of completion of field sampling.

Contact Personnel for the Beaumont Site 1 Project are as follows:

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Eric Hodder, Project Coordinator	(818) 847-9901
Bob Simpson, Site Project Manager	(818) 847-0514