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Quarterly Ground Water Remediation Program Technical Memorandum for August 1994

Prepared for:
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October 1994

QUARTERLY GROUND WATER REMEDIATION PROGRAM TECHNICAL MEMORANDUM FOR AUGUST 1994

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

OCTOBER 1994

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M E M O R A N D U M

Date: October 31, 1994

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From: Robert E. Aten
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Subject: **Keystone Steel & Wire Company**
Quarterly Ground Water Remediation Program Technical Memorandum
For August 1994 Sampling Event

This memorandum includes all August 1994 quarterly ground water analytical data (Table 1) for the Keystone TCE ground water remediation program, and the ground water and surface water elevation data for July, August and September 1994 (Table 2). Piezometric surface maps for the July 20, August 16, and September 16, 1994, ground water measurements are shown on Figures 1, 2, and 3. Concentration maps for TCE, 1,1,1-trichloroethane and total volatiles are presented on Figures 4, 5 and 6, respectively. All sampling and analytical procedures were consistent with the sampling plan presented in the Keystone Ground Water Remediation Program report submitted June 15, 1992, and the Ground Water Management Zone request submitted July 16, 1993.

All analytical results were validated using SW 846 protocols and the data have been qualified accordingly on Table 1. A letter from the project chemist discussing data validation is included in the Appendix. Also included in the Appendix are the laboratory data

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sheets documenting dates of analyses and analytical methods, and the chain of custody forms documenting date and time of sampling. A complete copy of the data validation package is retained in our office and at the analytical laboratory. Part or all of the QA/QC data will be provided upon request.

The air stripper downtime from July 8, 1994, through July 29, 1994, was caused by lightning strikes. The first lightning strike occurred on July 8, 1994, and damaged the communication modules at wells B, C and D. The ground water purge wells will not operate without the well control modules. The combination of long delivery times for new well control modules and a second lightning strike resulted in an extended delay. The well control modules had to be reordered after the second strike damaged the replacement modules. The system was put into operation July 29, 1994.

The air stripper downtime from August 28, 1994, through August 31, 1994, was caused by a leak in a fitting on the supply side of the acid feed pump. The fitting was replaced and the system was put into operation August 31, 1994.

The air stripper was down from September 3, 1994, through September 13, 1994, as a result of a leak in a flexible coupling on the sulfuric acid tank. The replacement coupling was a special order item that required several days for delivery. Installation of the replacement coupling was completed and the system was put into operation on September 13, 1994.

The air stripper downtime from September 17, 1994, through October 8, 1994, was caused by the failure of purge well D. The reduction in flow that resulted from the failure of well D caused the system to shut down under a low flow alarm condition. Well C had failed in July due to the lightning strike. A new motor was installed in well C on October 6, 1994.

Faulty wiring had caused well D to fail. The wiring on well D was repaired on October 7, 1994. Initially, it was thought that both wells would require new motors. The delay in repairs was caused by the delay in receiving new motors from the pump supplier. The system was put into operation on October 8, 1994.

The piezometric surface maps for July 20 and September 16, 1994, (Figures 1 and 3) show the affect of prolonged air stripper downtime. Although the deep depressional trough that is present on Figure 2 (August 16, 1994, piezometric surface) is not apparent on Figures 1 and 3, the ground water flow direction is still towards the center of the ground water management zone (GMZ), roughly toward the purge wells. The September 16 (Figure 3) piezometric surface is nearly flat in much of the GMZ, except along the western edge and in the southwest corner where the ground water flows toward purge well A.

The shapes of the contaminant plumes (Figures 4 through 6) are very similar to previous sampling events. However, the concentrations are somewhat lower than previously recorded.

TABLE 1
GROUND WATER MONITORING RESULTS
GROUND WATER ASSESSMENT STUDY
AUGUST 16-17, 1994

INVESTIGATIVE WELLS

WELL NUMBER	W-1D	W-2	W-2 Dup	W-3D	W-3D Dup	W-4D	T-1	T-2A	T-3
Temperature, field (C)	16.0	18.0	18.0	15.0	15.0	15.0	15.5	17.0	16.0
pH, field	6.7	6.4	6.4	6.7	6.7	7.0	6.4	7.1	7.1
SpC (at 25 C)	2233	1973	1923	2978	2928	1588	4975	1635	1120
VOLATILES (ug/L)									
1,1-Dichloroethane	<15	570	580	14	10	<10	<25	8	38
1,1-Dichloroethylene	40	110	110	18	16	<10	<25	14	220
1,2-Dichloroethylene (total)	18	<25	<25	15	14	17	50	11	140
Tetrachloroethylene	<15	<25	<25	<10	<10	<10	<25	<5	<25
1,1,1-Trichloroethane	29	<25	<25	54	52	11	<25	26	860
Trichloroethylene	440	<25	<25	390	380	380	880	150	330

A less than sign (<) indicates that the compound was nondetectable at the specified detection limit.

INVESTIGATIVE WELLS

WELL NUMBER	T-4A	T-4B	T-6A	T-6B	T-7B	T-9	T-10	T-11B	T-11C
Temperature, field (C)	14.0	15.0	15.0	15.0	20.0	18.0	15.0	17.5	17.5
pH, field	6.7	6.8	6.4	6.9	6.9	7.0	6.3	6.5	6.8
SpC (at 25 C)	2546	1935	1634	1800	2562	1985	7095	2928	2354
VOLATILES (ug/L)									
1,1-Dichloroethane	<10	25	49	<5	<15	18	<25	<5	<5
1,1-Dichloroethylene	<10	<10	98	<5	<15	140	<25	<5	<5
1,2-Dichloroethylene (total)	<10	30	<15	<5	20	8	44	7	<5
Tetrachloroethylene	<10	<10	<15	<5	<15	83	<25	<5	<5
1,1,1-Trichloroethane	<10	<10	430	6	<15	110	<25	<5	<5
Trichloroethylene	210	400	<15	75	440	79	840	69	37

A less than sign (<) indicates that the compound was nondetectable at the specified detection limit.

TABLE 1
GROUND WATER MONITORING RESULTS
GROUND WATER ASSESSMENT STUDY
AUGUST 16-17, 1994

	INVESTIGATIVE WELLS						
WELL NUMBER	T-13B	T-16	T-17	T-17 Dup	T-19C	T-20	T-23
Temperature, field (C)	15.0	16.0	18.0	18.0	12.0	17.0	14.0
pH, field	5.9	6.8	7.1	7.0	7.0	6.6	7.3
SpC (at 25 C)	13599	3002	1103	1103	3268	4034	2601
VOLATILES (ug/L)							
1,1-Dichloroethane	<5	6	30	29	<5	<5	<5
1,1-Dichloroethylene	<5	<5	57	55	<5	<5	<5
1,2-Dichloroethylene (total)	120	6	50	46	<5	<5	<5
Tetrachloroethylene	<5	<5	300	280	<5	<5	<5
1,1,1-Trichloroethane	<5	21	330	290	<5	<5	<5
Trichloroethylene	41	160	130	110	6	7	<5

A less than sign (<) indicates that the compound was nondetectable at the specified detection limit.

	UPGRADIENT WELL	BLANKS			TRIP BLANK
WELL NUMBER	T-15	Blank 202	Blank 206	Blank 301	*Trip Blank
Temperature, field (C)	13.0	NA	NA	NA	NA
pH, field	7.0	NA	NA	NA	NA
SpC (at 25 C)	1258	NA	NA	NA	NA
VOLATILES (ug/L)					
1,1-Dichloroethane	<5	<5	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5	<5	<5
1,2-Dichloroethylene (total)	<5	<5	<5	<5	<5
Tetrachloroethylene	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5	<5	<5
Trichloroethylene	<5	<5	<5	<5	<5

NA - not analyzed

A less than sign (<) indicates that the compound was nondetectable at the specified detection limit.

* Methylene Chloride detected at 11 ug/L in Trip Blank.

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:	**July 20, 1994**			
T-1	453.57	49.23	15.45	438.12
T-2A	450.11	44.26	12.20	437.91
T-2B	450.25	66.90	12.57	437.68
T-3	450.57	60.70	12.67	437.90
T-4A	449.42	27.24	12.03	437.39
T-4B	449.44	79.30	11.75	437.69
T-5A	448.04	33.16	9.97	438.07
T-5B	448.27	66.08	10.67	437.60
T-5C	448.21	82.84	10.20	438.01
T-6A	451.67	19.63	7.13	444.54
T-6B	451.72	34.94	13.60	438.12
T-6C	452.00	55.16	14.15	437.85
T-7A	448.55	18.18	7.26	441.29
T-7B	448.56	81.75	10.82	437.74
T-8	451.00	31.61	12.37	438.63
T-9	459.85	35.47	12.20	447.65
T-10	456.60	40.62	8.95	447.65
T-11A	451.12	40.98	12.55	438.57
T-11B	451.39	82.66	13.70	437.69
T-11C	451.23	99.21	13.47	437.76
T-13A	464.25	27.64	20.31	443.94
T-13B	464.44	32.03	20.40	444.04
T-14	452.47	102.05	13.60	438.87
T-15	454.70	20.25	8.45	446.25
T-16	450.51	41.96	12.15	438.36
T-17	461.62	41.90	18.00	443.62
T-18	462.92	32.02	21.21	441.71
T-19A	448.74	11.84	10.21	438.53
T-19B	449.45	39.83	11.25	438.20
T-19C	448.46	70.43	10.30	438.16

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:	**July 20, 1994**			
T-20	455.97	47.44	16.40	439.57
T-21	468.82	17.70	12.83	455.99
T-22A	447.97	68.56	9.98	437.99
T-22B	447.37	119.29	10.30	437.07
T-23	451.70	87.59	11.69	440.01
T-25A	452.65	39.58	11.58	441.07
T-25B	453.65	94.23	11.87	441.78
P-1A	450.86	34.80	12.64	438.22
P-1B	450.75	71.26	12.50	438.25
P-2	459.71	92.43	21.37	438.34
P-3	447.27	39.37	8.85	438.42
P-4	447.23	68.41	9.38	437.85
P-5	447.11	69.97	9.35	437.76
P-6	446.90	67.14	9.18	437.72
P-7	450.72	29.61	12.45	438.27
P-8	450.80	49.73	11.92	438.88
P-9	450.38	74.20	12.43	437.95
W-1	449.85	8.96	5.40	444.45
W-1D	448.82	50.28	11.00	437.82
W-2	451.79	12.24	7.30	444.49
W-2D	451.33	50.04	13.48	437.85
W-3	447.14	9.17	3.81	443.33
W-3D	446.94	50.34	6.93	440.01
W-4	450.67	9.97	8.60	442.07
W-4D	449.44	50.29	11.45	437.99
W-5	464.02	22.26	19.39	444.63
W-5D	463.76	36.22	19.40	444.36

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:	**July 20, 1994**			
W-6	461.38	10.06	8.10	453.28
W-7	459.21	14.51	6.60	452.61
W-8	455.01	16.66	12.21	442.80
W-9	449.78	14.85	5.35	444.43
W-10	451.33	14.74	8.95	442.38
W-11	450.15	14.87	8.11	442.04
W-12	460.38	21.04	15.00	445.38
W-13	459.62	24.62	13.10	446.52
W-14	460.75	20.77	11.32	449.43
W-15	451.80	12.35	6.39	445.41
W-16	451.77	12.11	6.17	445.60
W-17	452.73	12.13	5.63	447.10
W-18	451.08	12.26	5.15	445.93
CL-1	450.13	19.20	9.90	440.23
CL-2	450.10	20.11	9.98	440.12
CL-3	450.27	23.63	8.66	441.61
CL-4	450.56	23.29	7.47	443.09
CL-5	453.74	27.04	9.91	443.83

NA = Well not accessable
NC = Not collected

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:	August, 1994			
T-1	453.57	49.23	17.09	436.48
T-2A	450.11	44.26	15.00	435.11
T-2B	450.25	66.90	17.54	432.71
T-3	450.57	60.70	15.95	434.62
T-4A	449.42	27.24	14.04	435.38
T-4B	449.44	79.30	14.44	435.00
T-5A	448.04	33.16	11.62	436.42
T-5B	448.27	66.08	12.53	435.74
T-5C	448.21	82.84	11.70	436.51
T-6A	451.67	19.63	7.05	444.62
T-6B	451.72	34.94	15.42	436.30
T-6C	452.00	55.16	16.20	435.80
T-7A	448.55	18.18	7.30	441.25
T-7B	448.56	81.75	14.02	434.54
T-8	451.00	31.61	13.32	437.68
T-9	459.85	35.47	23.45	436.40
T-10	456.60	40.62	21.48	435.12
T-11A	451.12	40.98	13.66	437.46
T-11B	451.39	82.66	15.72	435.67
T-11C	451.23	99.21	14.95	436.28
T-13A	464.25	27.64	21.71	442.54
T-13B	464.44	32.03	20.81	443.63
T-14	452.47	102.05	16.60	435.87
T-15	454.70	20.25	8.29	446.41
T-16	450.51	41.96	13.90	436.61
T-17	461.62	41.90	23.86	437.76
T-18	462.92	32.02	18.20	444.72
T-19A	448.74	11.84	11.60	437.14
T-19B	449.45	39.83	12.73	436.72
T-19C	448.46	70.43	11.80	436.66

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:	**August, 1994**			
T-20	455.97	47.44	19.43	436.54
T-21	468.82	17.70	12.63	456.19
T-22A	447.97	68.56	10.14	437.83
T-22B	447.37	119.29	10.43	436.94
T-23	451.70	87.59	15.01	436.69
T-25A	452.65	39.58	15.62	437.03
T-25B	453.65	94.23	15.94	437.71
P-1A	450.86	34.80	13.94	436.92
P-1B	450.75	71.26	14.01	436.74
P-2	459.71	92.43	22.18	437.53
P-3	447.27	39.37	9.67	437.60
P-4	447.23	68.41	13.30	433.93
P-5	447.11	69.97	13.02	434.09
P-6	446.90	67.14	12.53	434.37
P-7	450.72	29.61	12.85	437.87
P-8	450.80	49.73	25.00	425.80
P-9	450.38	74.20	13.79	436.59
W-1	449.85	8.96	5.40	444.45
W-1D	448.82	50.28	13.87	434.95
W-2	451.79	12.24	7.42	444.37
W-2D	451.33	50.04	16.27	435.06
W-3	447.14	9.17	4.37	442.77
W-3D	446.94	50.34	12.15	434.79
W-4	450.67	9.97	8.82	441.85
W-4D	449.44	50.29	13.58	435.86
W-5	464.02	22.26	18.11	445.91
W-5D	463.76	36.22	18.21	445.55

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:	**August, 1994**			
W-6	461.38	10.06	8.18	453.20
W-7	459.21	14.51	6.62	452.59
W-8	455.01	16.66	9.93	445.08
W-9	449.78	14.85	5.17	444.61
W-10	451.33	14.74	9.50	441.83
W-11	450.15	14.87	7.11	443.04
W-12	460.38	21.04	15.05	445.33
W-13	459.62	24.62	12.28	447.34
W-14	460.75	20.77	11.04	449.71
W-15	451.80	12.35	4.40	447.40
W-16	451.77	12.11	4.30	447.47
W-17	452.73	12.13	3.76	448.97
W-18	451.08	12.26	3.60	447.48
CL-1	450.13	19.20	10.25	439.88
CL-2	450.10	20.11	10.25	439.85
CL-3	450.27	23.63	9.12	441.15
CL-4	450.56	23.29	7.87	442.69
CL-5	453.74	27.04	10.37	443.37

NA = Well not accessable
NC = Not collected

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:	September 15, 1994			
T-1	453.57	49.23	17.79	435.78
T-2A	450.11	44.26	13.95	436.16
T-2B	450.25	66.90	14.35	435.90
T-3	450.57	60.70	15.96	434.61
T-4A	449.42	27.24	10.85	438.57
T-4B	449.44	79.30	13.73	435.71
T-5A	448.04	33.16	12.08	435.96
T-5B	448.27	66.08	12.46	435.81
T-5C	448.21	82.84	12.70	435.51
T-6A	451.67	19.63	7.15	444.52
T-6B	451.72	34.94	15.80	435.92
T-6C	452.00	55.16	16.20	435.80
T-7A	448.55	18.18	7.47	441.08
T-7B	448.56	81.75	13.70	434.86
T-8	451.00	31.61	13.66	437.34
T-9	459.85	35.47	22.41	437.44
T-10	456.60	40.62	20.02	436.58
T-11A	451.12	40.98	14.32	436.80
T-11B	451.39	82.66	16.00	435.39
T-11C	451.23	99.21	15.90	435.33
T-13A	464.25	27.64	20.98	443.27
T-13B	464.44	32.03	21.05	443.39
T-14	452.47	102.05	17.20	435.27
T-15	454.70	20.25	9.83	444.87
T-16	450.51	41.96	14.72	435.79
T-17	461.62	41.90	23.32	438.30
T-18	462.92	32.02	18.63	444.29
T-19A	448.74	11.84	12.80	435.94
T-19B	449.45	39.83	13.78	435.67
T-19C	448.46	70.43	12.90	435.56

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:	**September 15, 1994**			
T-20	455.97	47.44	20.06	435.91
T-21	468.82	17.70	12.60	456.22
T-22A	447.97	68.56	10.40	437.57
T-22B	447.37	119.29	12.02	435.35
T-23	451.70	87.59	16.20	435.50
T-25A	452.65	39.58	16.75	435.90
T-25B	453.65	94.23	17.05	436.60
P-1A	450.86	34.80	15.02	435.84
P-1B	450.75	71.26	14.95	435.80
P-2	459.71	92.43	23.36	436.35
P-3	447.27	39.37	10.18	437.09
P-4	447.23	68.41	12.70	434.53
P-5	447.11	69.97	13.25	433.86
P-6	446.90	67.14	12.55	434.35
P-7	450.72	29.61	13.43	437.29
P-8	450.80	49.73	14.22	436.58
P-9	450.38	74.20	14.85	435.53
W-1	449.85	8.96	5.41	444.44
W-1D	448.82	50.28	12.60	436.22
W-2	451.79	12.24	7.45	444.34
W-2D	451.33	50.04	15.24	436.09
W-3	447.14	9.17	4.00	443.14
W-3D	446.94	50.34	10.75	436.19
W-4	450.67	9.97	9.00	441.67
W-4D	449.44	50.29	12.91	436.53
W-5	464.02	22.26	19.02	445.00
W-5D	463.76	36.22	19.28	444.48

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:	**September 15, 1994**			
W-6	461.38	10.06	8.27	453.11
W-7	459.21	14.51	6.93	452.28
W-8	455.01	16.66	10.36	444.65
W-9	449.78	14.85	5.21	444.57
W-10	451.33	14.74	8.81	442.52
W-11	450.15	14.87	7.32	442.83
W-12	460.38	21.04	15.15	445.23
W-13	459.62	24.62	12.42	447.20
W-14	460.75	20.77	11.17	449.58
W-15	451.80	12.35	6.12	445.68
W-16	451.77	12.11	6.00	445.77
W-17	452.73	12.13	5.53	447.20
W-18	451.08	12.26	5.12	445.96
CL-1	450.13	19.20	10.93	439.20
CL-2	450.10	20.11	10.51	439.59
CL-3	450.27	23.63	9.50	440.77
CL-4	450.56	23.29	9.62	440.94
CL-5	453.74	27.04	11.50	442.24

NA = Well not accessable
NC = Not collected

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

TBM LOCATION	TBM ELEVATION (feet)	DEPTH TO WATER BELOW TBM (feet)	ELEVATION OF WATER (feet)
DATE:	**July 20, 1994**		
TBM-1E	449.27	>3.80	<445.47
TBM-1W	447.89	3.45	444.44
TBM-3N	448.61	4.21	444.40
TBM-3S	449.02	>3.85	<445.17
TBM-4W	449.19	5.81	443.38
TBM-4S	445.68	M	
TBM-6W	459.60	4.50	455.10
TBM-9	446.88	2.51	444.37
TBM-10	449.98	M	
TBM-10E	450.61	3.85	446.76
TBM-11	447.22	>3.25	<443.97
TBM-12	443.44	2.50	440.94
Illinois River			
Peoria Lock & Dam			
upper pool			440.35
lower pool			433.30

1. Illinois River data were o er data were obtained from the Army Corps of Engineers, Rock Island District.

2. M = missed measurement

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

TBM LOCATION	TBM ELEVATION (feet)	DEPTH TO WATER BELOW TBM (feet)	ELEVATION OF WATER (feet)
DATE:	**August, 1994**		
TBM-1E	449.27	>3.30	<445.70
TBM-1W	447.89	3.60	444.29
TBM-3N	448.61	>3.70	<444.91
TBM-3S	449.02	>3.85	<445.17
TBM-4W	449.19	M	
TBM-4S	445.68	M	
TBM-6W	459.60	M	
TBM-9	446.88	M	
TBM-10	449.98	M	
TBM-10E	450.61	M	
TBM-11	447.22	M	
TBM-12	443.44	M	
Illinois River			
Peoria Lock & Dam			
upper pool			442.20
lower pool			442.10

1. Illinois River data were obtained from the Army Corps of Engineers, Rock Island District.

2. M = missed measurement

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

TBM LOCATION	TBM ELEVATION (feet)	DEPTH TO WATER BELOW TBM (feet)	ELEVATION OF WATER (feet)
DATE:	**September 15, 1994**		
TBM-1E	449.27	M	
TBM-1W	447.89	3.40	444.49
TBM-3N	448.61	M	
TBM-3S	449.02	M	
TBM-4W	449.19	2.00	447.19
TBM-4S	445.68	M	
TBM-6W	459.60	4.70	454.90
TBM-9	446.88	M	
TBM-10	449.98	M	
TBM-10E	450.61	4.10	
TBM-11	447.22	>3.25	<443.97
TBM-12	443.44	2.40	441.04
Illinois River			
Peoria Lock & Dam			
upper pool			446.26
lower pool			446.16

1. Illinois River data were obtained from the Army Corps of Engineers, Rock Island District.

2. M = missed measurement

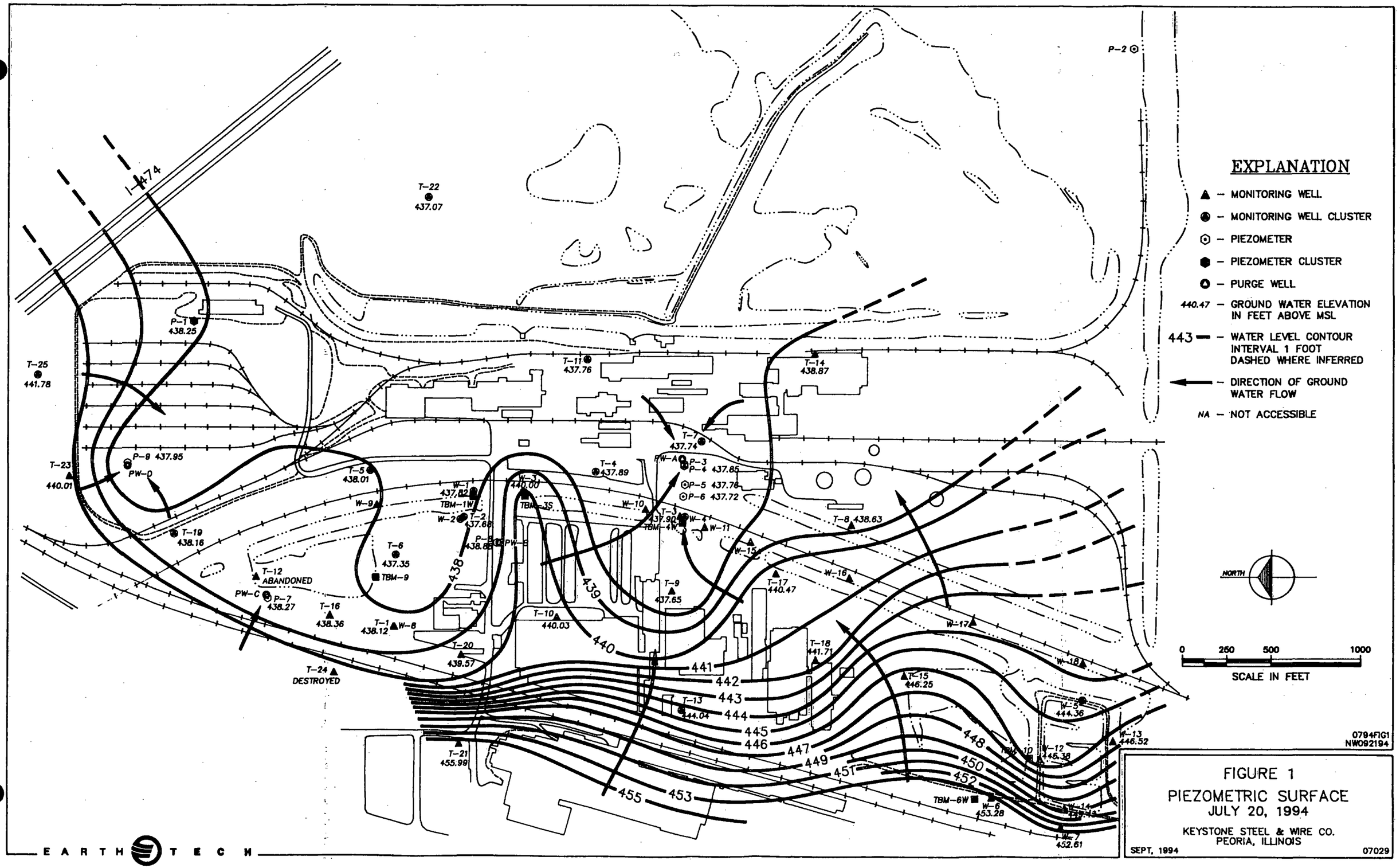


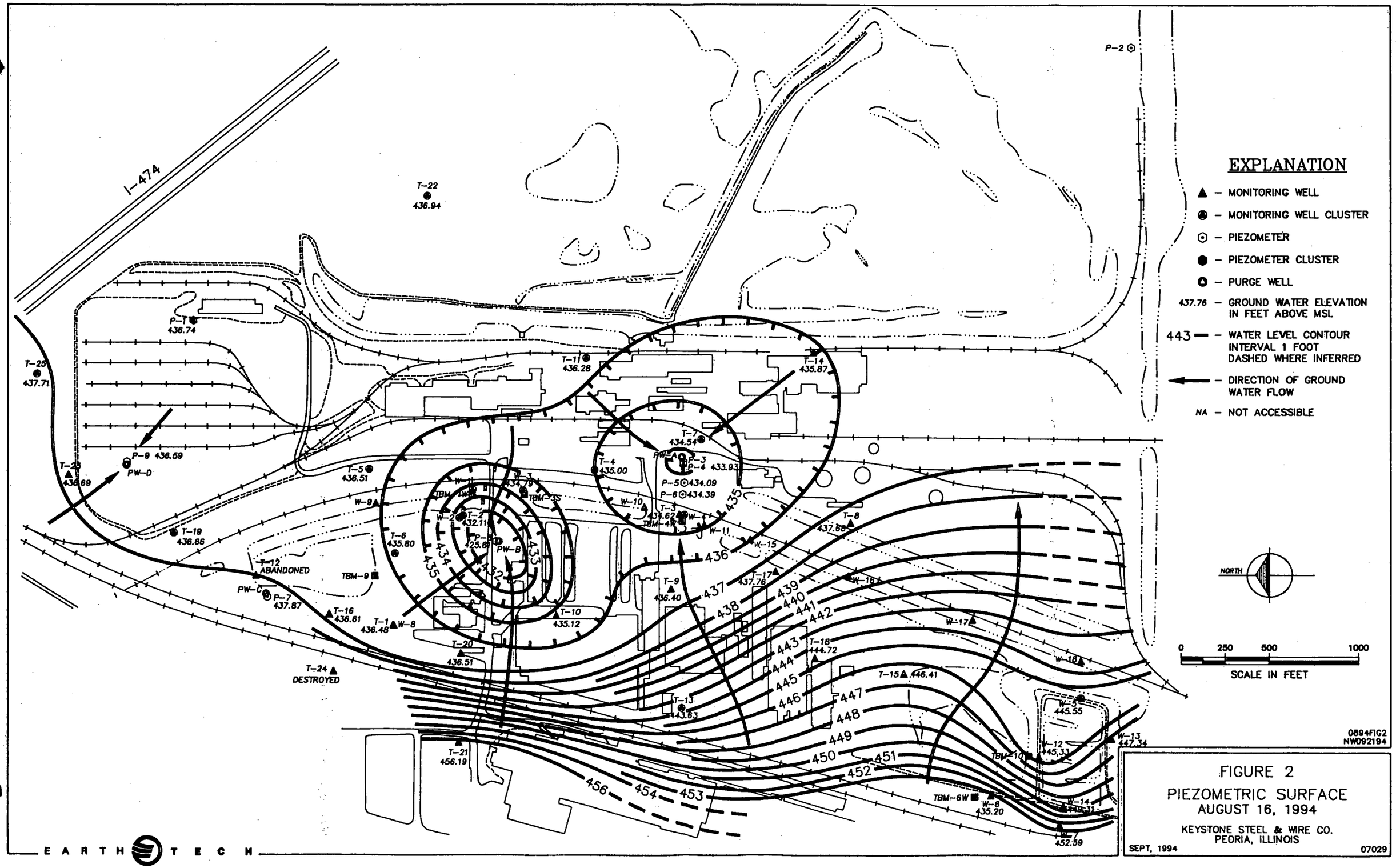
FIGURE 1
PIEZOMETRIC SURFACE
JULY 20, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

SEPT, 1994

07029

EARTH TECH



0894FIG2
NW092194

FIGURE 2
PIEZOMETRIC SURFACE
AUGUST 16, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

SEPT, 1994

07029

EARTH TECH

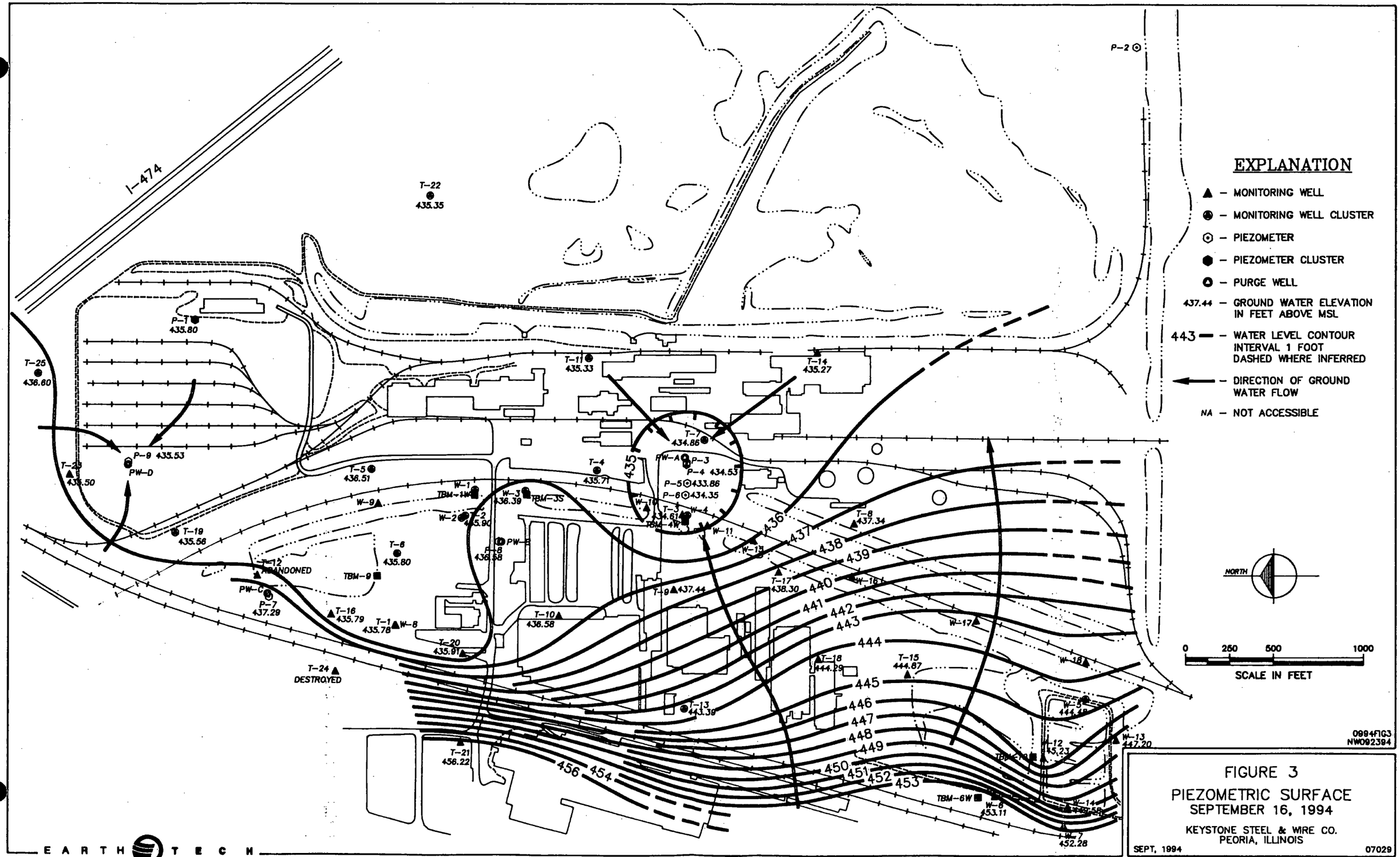


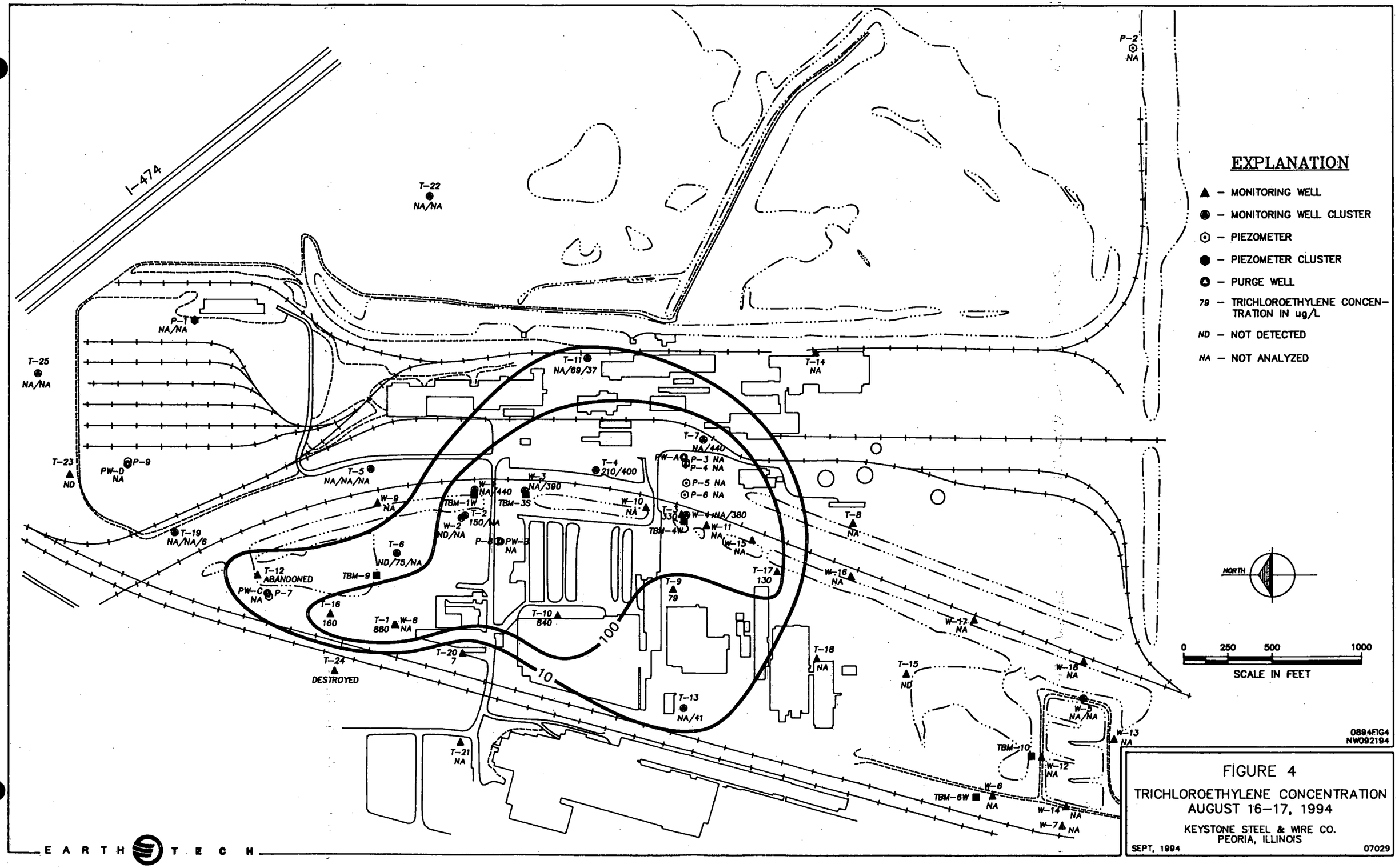
FIGURE 3

PIEZOMETRIC SURFACE
SEPTEMBER 16, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

SEPT, 1994 07029

EARTH TECH



EXPLANATION

- ▲ – MONITORING WELL
- ● – MONITORING WELL CLUSTER
- ⊙ – PIEZOMETER
- ⬢ – PIEZOMETER CLUSTER
- ◆ – PURGE WELL
- 79 – TRICHLOROETHYLENE CONCENTRATION IN ug/L
- ND – NOT DETECTED
- NA – NOT ANALYZED

FIGURE 4

TRICHLOROETHYLENE CONCENTRATION
AUGUST 16–17, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

SEPT, 1994 07029

EARTH TECH

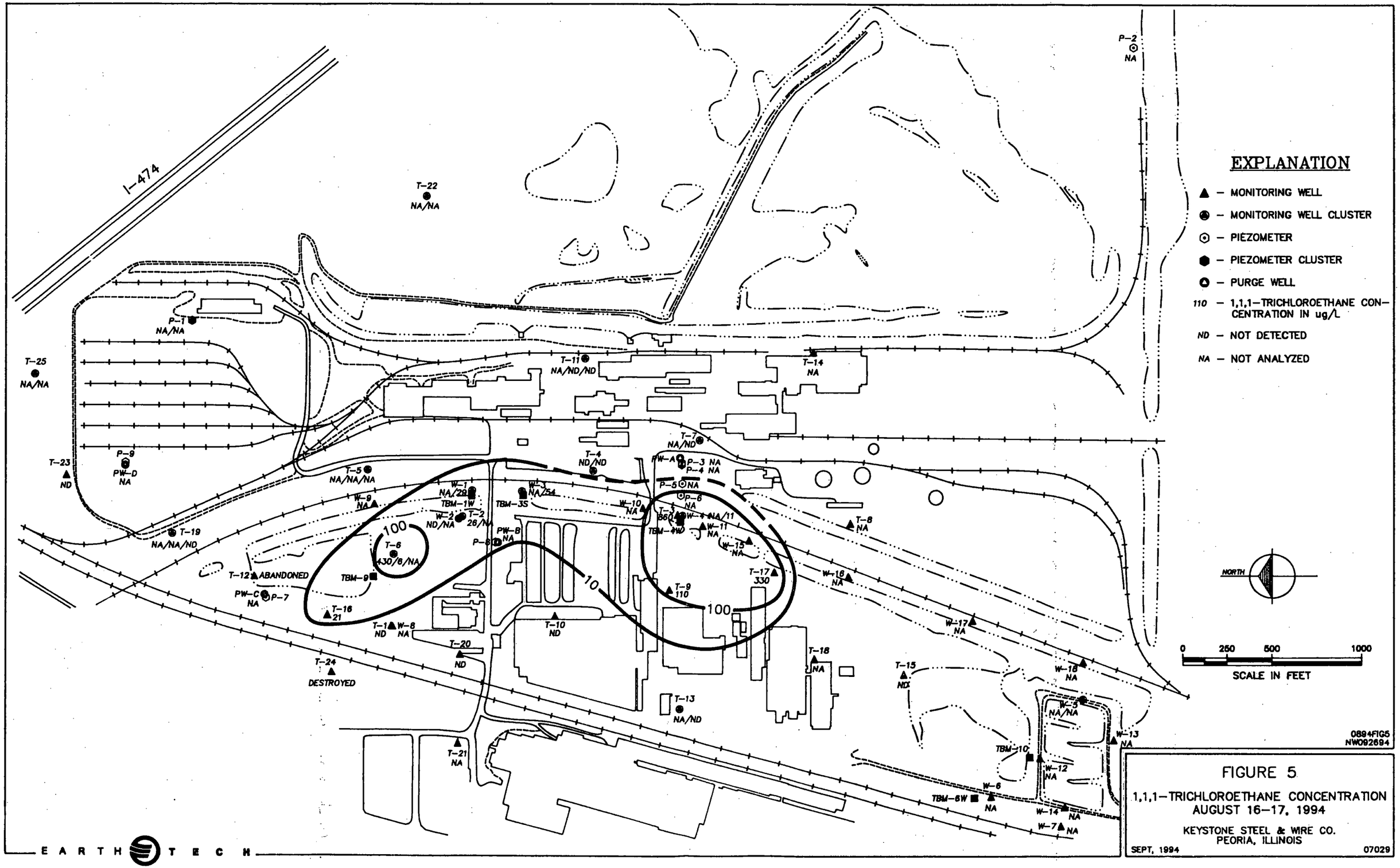
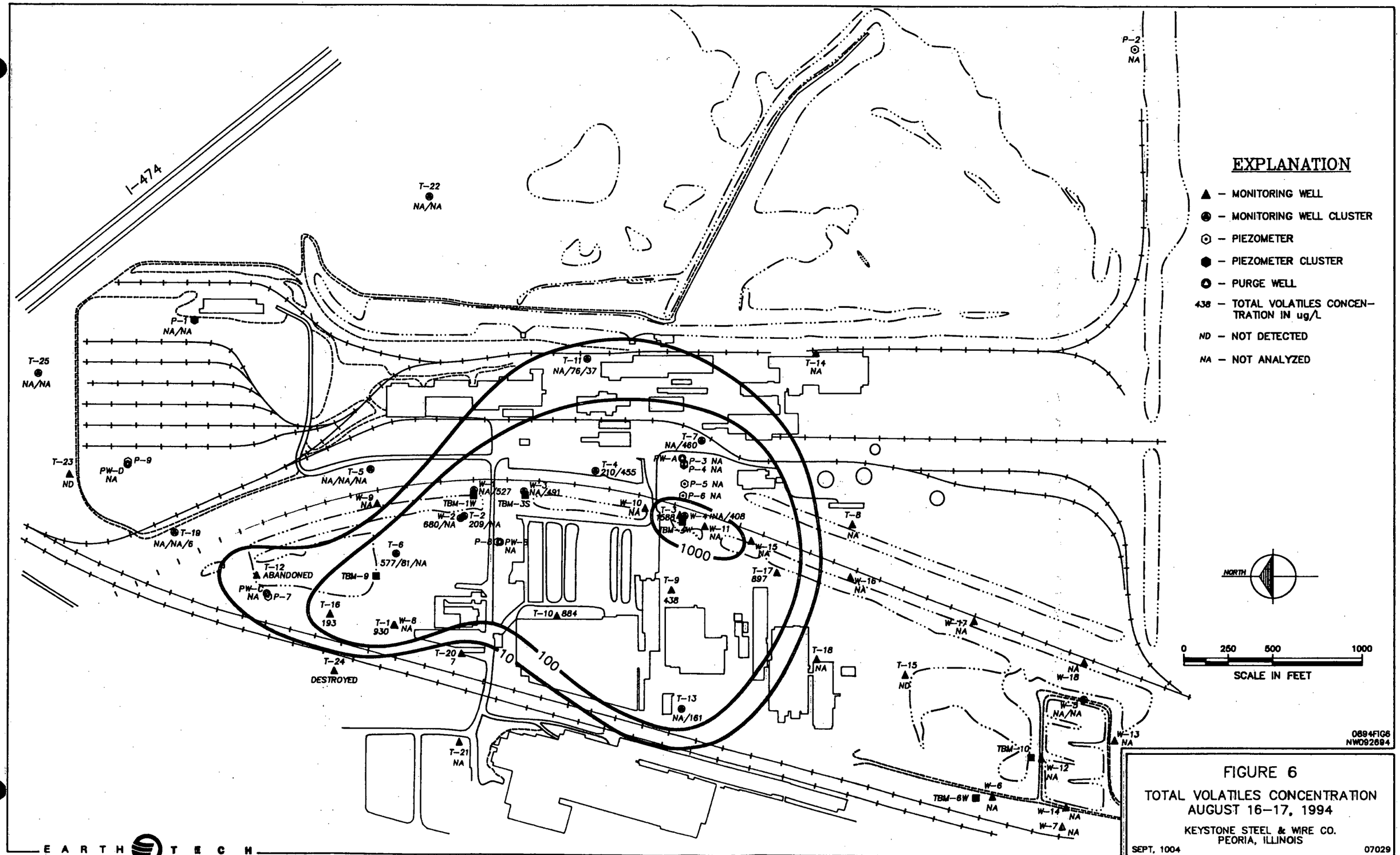


FIGURE 5

1,1,1–TRICHLOROETHANE CONCENTRATION
AUGUST 16–17, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

SEPT, 1994 07029



EXPLANATION

- ▲ – MONITORING WELL
- ◉ – MONITORING WELL CLUSTER
- ⊙ – PIEZOMETER
- ⬢ – PIEZOMETER CLUSTER
- ◘ – PURGE WELL
- 438 – TOTAL VOLATILES CONCENTRATION IN ug/L
- ND – NOT DETECTED
- NA – NOT ANALYZED

FIGURE 6

TOTAL VOLATILES CONCENTRATION
AUGUST 16–17, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

SEPT. 1004 07029

EARTH TECH

5555 Glenwood Hills Parkway, SE, Post Office Box 874, Grand Rapids, Michigan 49588-0874

October 12, 1994

Dr. Robert Aten
EARTH TECH
5010 Stone Mill Road
Bloomington, IN 47408

Dear Dr. Aten:

Enclosed please find one copy of the analytical report and data validation package for the quarterly Keystone Monitoring Program. All data were validated against Table 5 and SW846 protocols. All data were deemed acceptable with no qualifications necessary. If you have any questions, please call.

Very truly yours,

EARTH TECH

Ray V. Buhl

Ray V. Buhl
Project Manager

Telephone
616.942.9600
Facsimile
616.942.6499

Buhl5/Aten3

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-103
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-1D

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/21/94	JHS	USEPA-8260

- - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-103
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-1D

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	29
1,1,2,2-Tetrachloroethane	<15
1,1,2-Trichloroethane	<15
1,1-Dichloroethane	<15
1,1-Dichloroethene	40
1,2-Dichloroethane	<15
1,2-Dichloropropane	<15
2-Butanone	<300
2-Chloroethyl vinyl ether	<30
2-Hexanone	<150
4-Methyl-2-pentanone	<150
Acetone	<300
Benzene	<15
Bromodichloromethane	<15
Bromoform	<15
Bromomethane	<30
Carbon Disulfide	<300
Carbon Tetrachloride	<15
Chlorobenzene	<15
Chloroethane	<30
Chloroform	<15
Chloromethane	<30
Dibromochloromethane	<15
Ethylbenzene	<15
Methylene Chloride	<15
Styrene	<15
Tetrachloroethene	<15
Toluene	<15
Trichloroethene	440
Vinyl Acetate	<150
Vinyl Chloride	<30

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-103
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-1D

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	18
cis-1,3-Dichloropropene	<15
m-Xylene/p-Xylene	<15
o-Xylene	<15
trans-1,2-Dichloroethene	<15
trans-1,3-Dichloropropene	<15

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-104
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-2

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/21/94	JHS	USEPA-8260

- - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-104
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-2

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<25
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	570
1,1-Dichloroethene	110
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	<25
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-104
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-2

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<25
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-105
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-2 DUPLICATE

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/21/94	JHS	USEPA-8260

- - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-105
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-2 DUPLICATE

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<25
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	580
1,1-Dichloroethene	110
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	<25
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-105
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-2 DUPLICATE

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<25
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-106
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-3D

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/21/94	JHS	USEPA-8260

- - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-106
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-3D

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	54
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	14
1,1-Dichloroethene	18
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	390
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-106
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-3D

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	15
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-107
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-3D DUPLICATE

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/21/94	JHS	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-107
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-3D DUPLICATE

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	52
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	10
1,1-Dichloroethene	16
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	380
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-107
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-3D DUPLICATE

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	14
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-108
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-4D

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/21/94	JHS	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE. PO Box 3898. Cleveland. TN 37320-3898. 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-108
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-4D

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	11
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	<10
1,1-Dichloroethene	<10
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	380
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-108
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: W-4D

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	17
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-124
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-1

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/23/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/23/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-124
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-1

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<25
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	<25
1,1-Dichloroethene	<25
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	880
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/23/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-124
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-1

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	50
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-121
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-2A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/22/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/23/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-121
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-2A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	26
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	8
1,1-Dichloroethene	14
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	150
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/23/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-121
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-2A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	11
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-117
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-3

Analysis	Results	DL	Analyzed	*	Method
VOA	ATTACHED	- -	08/23/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-117
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-3

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	860
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	38
1,1-Dichloroethene	220
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	330
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-117
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-3

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	140
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-120
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-4A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/23/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-120
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-4A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<10
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	<10
1,1-Dichloroethene	<10
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	210
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-120
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-4A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<10
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-119
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-4B

Analysis	Results	DL	Analyzed	*	Method
VOA	ATTACHED	- -	08/22/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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EARTH TECH

ANALYTICAL SERVICES

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-119
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-4B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<10
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	25
1,1-Dichloroethene	<10
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	400
Vinyl Acetate	<100
Vinyl Chloride	<20

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-119
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-4B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	30
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-129
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-6A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/26/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-129
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-6A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	430
1,1,2,2-Tetrachloroethane	<15
1,1,2-Trichloroethane	<15
1,1-Dichloroethane	49
1,1-Dichloroethene	98
1,2-Dichloroethane	<15
1,2-Dichloropropane	<15
2-Butanone	<300
2-Chloroethyl vinyl ether	<30
2-Hexanone	<150
4-Methyl-2-pentanone	<150
Acetone	<300
Benzene	<15
Bromodichloromethane	<15
Bromoform	<15
Bromomethane	<30
Carbon Disulfide	<300
Carbon Tetrachloride	<15
Chlorobenzene	<15
Chloroethane	<30
Chloroform	<15
Chloromethane	<30
Dibromochloromethane	<15
Ethylbenzene	<15
Methylene Chloride	<15
Styrene	<15
Tetrachloroethene	<15
Toluene	<15
Trichloroethene	<15
Vinyl Acetate	<150
Vinyl Chloride	<30

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-129
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-6A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<15
cis-1,3-Dichloropropene	<15
m-Xylene/p-Xylene	<15
o-Xylene	<15
trans-1,2-Dichloroethene	<15
trans-1,3-Dichloropropene	<15

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-126
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-6B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/26/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-126
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-6B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	6
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	75
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-126
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-6B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-128
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-7B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/26/94	JHS	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-128
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-7B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<15
1,1,2,2-Tetrachloroethane	<15
1,1,2-Trichloroethane	<15
1,1-Dichloroethane	<15
1,1-Dichloroethene	<15
1,2-Dichloroethane	<15
1,2-Dichloropropane	<15
2-Butanone	<300
2-Chloroethyl vinyl ether	<30
2-Hexanone	<150
4-Methyl-2-pentanone	<150
Acetone	<300
Benzene	<15
Bromodichloromethane	<15
Bromoform	<15
Bromomethane	<30
Carbon Disulfide	<300
Carbon Tetrachloride	<15
Chlorobenzene	<15
Chloroethane	<30
Chloroform	<15
Chloromethane	<30
Dibromochloromethane	<15
Ethylbenzene	<15
Methylene Chloride	<15
Styrene	<15
Tetrachloroethene	<15
Toluene	<15
Trichloroethene	440
Vinyl Acetate	<150
Vinyl Chloride	<30

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-128
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-7B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	20
cis-1,3-Dichloropropene	<15
m-Xylene/p-Xylene	<15
o-Xylene	<15
trans-1,2-Dichloroethene	<15
trans-1,3-Dichloropropene	<15

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-122
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-9

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/22/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-122
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-9

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	110
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	18
1,1-Dichloroethene	140
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	83
Toluene	<5
Trichloroethene	79
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-122
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-9

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	8
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-118
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-10

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/23/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/23/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-118
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-10

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<25
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	<25
1,1-Dichloroethene	<25
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	840
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/23/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-118
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-10

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	44
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-111
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-11B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/21/94	JHS	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-111
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-11B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	69
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-111
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-11B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	7
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-112
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-11C

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/21/94	JHS	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-112
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-11C

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	37
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-112
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-11C

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-115
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-13B

Analysis	Results	DL	Analyzed	*	Method
VOA	ATTACHED	- -	08/22/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-115
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-13B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	41
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-115
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-13B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	120
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-127
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-16

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/26/94	JHS	USEPA-8260

- - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-127
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-16

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	21
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	6
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	160
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-127
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-16

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	6
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-109
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-17

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/22/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-109
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-17

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	330
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	30
1,1-Dichloroethene	57
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	300
Toluene	<10
Trichloroethene	130
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-109
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-17

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	50
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-110
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-17 DUPLICATE

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/22/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-110
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-17 DUPLICATE

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	290
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	29
1,1-Dichloroethene	55
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	280
Toluene	<10
Trichloroethene	110
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-110
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-17 DUPLICATE

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	46
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-113
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-19C

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/21/94	JHS	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-113
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-19C

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	6
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-113
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-19C

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-125
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-20

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/26/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-125
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-20

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	7
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-125
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-20

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-123
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-23

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/22/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/23/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-123
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-23

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/23/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-123
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-23

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

Laboratory Report

Attn: Bob Aten
EARTH TECH
5010 Stone Mill Rd.
Bloomington IN 47408

Date Sampled: 08/16/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-101
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-15

Analysis	Results	Units	DL	Analyzed	*	Method
VOA	ATTACHED	-	-	08/22/94	JHS	USEPA-8260

= Non-Detect
DL = Detection Limit
* = Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-101
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-15

Units: µg/L

Compound	Results	DL
1,1,1-Trichloroethane	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,1,2-Trichloroethane	ND	5
1,1-Dichloroethane	ND	5
1,1-Dichloroethene	ND	5
1,2-Dichloroethane	ND	5
1,2-Dichloropropane	ND	5
2-Butanone	ND	100
2-Chloroethyl vinyl ether	ND	10
2-Hexanone	ND	50
4-Methyl-2-pentanone	ND	50
Acetone	ND	100
Benzene	ND	5
Bromodichloromethane	ND	5
Bromoform	ND	5
Bromomethane	ND	10
Carbon Disulfide	ND	100
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	10
Chloroform	ND	5
Chloromethane	ND	10
Dibromochloromethane	ND	5
Ethylbenzene	ND	5
Methylene Chloride	ND	5
Styrene	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Trichloroethene	ND	5
Vinyl Acetate	ND	50

DL = Detection Limit, ND = Non-Detect

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-101
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: T-15

Units: µg/L

Compound	Results	DL
Vinyl Chloride	ND	10
cis-1,2-Dichloroethene	ND	5
cis-1,3-Dichloropropene	ND	5
m-Xylene/p-Xylene	ND	5
o-Xylene	ND	5
trans-1,2-Dichloroethene	ND	5
trans-1,3-Dichloropropene	ND	5

DL = Detection Limit, ND = Non-Detect

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-102
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: BLANK 202

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/22/94	JHS	USEPA-8260

- - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-102
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: BLANK 202

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/16/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-102
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: BLANK 202

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-114
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: BLANK 206

Analysis	Results	DL	Analyzed	*	Method
VOA	ATTACHED	-	08/22/94	JHS	USEPA-8260

- Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-114
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: BLANK 206

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/21/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-114
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: BLANK 206

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-116
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: BLANK 301

Analysis	Results	DL	Analyzed	*	Method
VOA	ATTACHED	-	08/22/94	KM	USEPA-8260

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-116
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: BLANK 301

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/22/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-116
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: BLANK 301

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

EARTH TECH

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/94
Date Received: 08/18/94
Date Reported: 08/31/94

Lab Sample ID: 13866-130
Sample Matrix: WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: TRIP BLANK

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	08/27/94	JHS	USEPA-8260

- - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-130
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: TRIP BLANK

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	11
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
EARTH TECH

Date Sampled: 08/17/1994
Date Received: 08/18/1994
Date Analyzed: 08/26/1994
Date Reported: 08/31/1994

Lab Sample ID: 13866-130
Sample Matrix: WATER
Method: USEPA-8260

Purchase Order:

PROJECT# 07029.00 KEYSTONE

CUSTOMER SAMPLE ID: TRIP BLANK

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

CASE NARRATIVE

CLIENT: EARTH TECH

LAB REFERENCE #: 13866

All analyses have been validated and comply with our quality control program. Listed below is additional information concerning the analyses:

SAMPLE ID: ALL **PARAMETER:** VOA

EXPLANATION:

Elevated Detection limit due to large quantity of other target compounds.

NOTE: This document is included as part of the Laboratory Report for the above referenced submittal and must be retained as permanent record thereof.

CLP QC

CHAIN OF CUSTODY RECORD

3072

WW Engineering & Science, Inc.
5010 Stone Mill Road, Bloomington, Indiana 47408
Phone (812)336-0972 Fax (812)336-3991

PROJECT: Keystone

PROJECT NO.: 07029.00

SAMPLERS: Kerr, Conway, Allen, Flores

	SAMPLE I.D.	DATE	TIME	MATRIX*	COMP	GRAB	SAMPLE LOCATION	NO. CONTAINERS	CONTAINER TYPE/ PRESERVATIVE 40 ml vial / HCl					ANALYSIS
1	T-15	8-16-94	2:45p	WTR		X		2	X					Volatiles (8240)
2	Blank 202		2:20p											
3	W-1D		5:27p											
4	W-2		5:07p											
5	W-2 Duplicate		5:07p											
6	W-3D		5:47p											
7	W-3D Duplicate		5:47p											
8	W-4D		6:10p											
9	T-17	8-17-94	10:30a											
10	T-17 Duplicate		10:30a											
11	T-11B		9:50a											
12	T-11C		9:53a											
13	T-19C		10:15a											
14	Blank 206		7:45a											
15	T-13B		11:40a											
16	Blank 301		12:35p											
17	T-3		3:15p											
18	T-10		2:55p											
19	T-4B		2:30p											
20	Trip Blank	—	—		—	—								

Relinquished By	Date	Time	Received By	Date	Time	Remarks
[signature]	8-17-94	4:15p	Custody Seal			Received on ice 5°C
Relinquished By	Date	Time	Received For Lab By	Date	Time	
			[signature]	8/18/94	9:50 am	

*MATRIX: WATER (WTR), WASTEWATER (WW), SOIL, SLUDGE (SLU), AIR, OIL, HAZARDOUS WASTE (HW)

CHAIN OF CUSTODY RECORD

3232

WW Engineering & Science, Inc.
5010 Stone Mill Road, Bloomington, Indiana 47408
Phone (812)336-0972 Fax (812)336-3991

PROJECT: Keystone

PROJECT NO.: 07029.00

SAMPLERS: Kerr, Conway, Aten, Flores

SAMPLE I.D.	DATE	TIME	MATRIX*	COMP	GRAB	SAMPLE LOCATION	NO. CONTAINERS	CONTAINER TYPE/ PRESERVATIVE: 40ml vial / HCL					ANALYSIS
20 T-4A	8-17-94	2:10p	WTR		X		2	X					Volatiles (8240)
21 T-2A		2:48p											
22 T-9		2:55p											
23 T-23		12:45p											
24 T-1		1:12p											
25 T-20		1:55p											
26 T-6B		12:35p											
27 T-16		1:15p											
28 T-7B		12:00p											
29 T-6A		12:40p											

Relinquished By	Date	Time	Received By	Date	Time	Remarks
Dave R. [illegible]	8-17-94	4:15p	Custody Seal			Received on ice 5°C
Relinquished By	Date	Time	Received For Lab By	Date	Time	
			Paul Waddell	8/18/94	9:30 am	

*MATRIX: WATER (WTR), WASTEWATER (WW), SOIL, SLUDGE (SLU), AIR, OIL, HAZARDOUS WASTE (HW)

US EPA

RECEIVED
WMD RECORDS CENTER
SEP 20 1994

Quarterly Ground Water Remediation Program Technical Memorandum for May 1994

RECEIVED
JUL 21 1994
IEPA - DLC
PERMIT SECTION

Prepared for:
Keystone Steel & Wire Company
7000 S.W. Adams
Peoria, IL 60641

ILD 000714881

Prepared by:
EARTH TECH
5010 Stone Mill Road
Bloomington, IN 47408

July 1994

EARTH TECH

QUARTERLY GROUND WATER REMEDIATION PROGRAM TECHNICAL MEMORANDUM FOR MAY 1994

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

JULY 1994

EARTH TECH
5010 Stone Mill Road
Bloomington, IN 47408-9320
Ph: 812/336-0972 Fax: 812/336-3991

M E M O R A N D U M

Date: July 19, 1994

To: Ken Lovett
Illinois Environmental Protection Agency
Permit Section
Division of Land Pollution Control
2200 Churchill Road
Springfield, IL 62794-9276

CC: M. Franklin
J. Svoboda
D. Bennington
L. Eastep
R. End
R. Miller
D. Semelroth
A. Running
E. Breland

RECEIVED
JUL 21 1994
PERMIT SECTION

From: Robert E. Aten
EARTH TECH
5010 Stone Mill Road
Bloomington, IN 47408

Subject: **Keystone Steel & Wire Company**
Quarterly Ground Water Remediation Program Technical Memorandum
May 1994 Sampling Event

This memorandum includes all May 1994 quarterly ground water analytical data (Table 1) for the Keystone TCE ground water remediation program, and the ground water and surface water elevation data for April, May and June, 1994 (Table 2). Piezometric surface maps for the April 14, May 16 and June 21, 1994 ground water measurements are shown on Figures 1, 2, and 3. Concentration maps for TCE, 1,1,1-trichloroethane and total volatiles are presented on Figures 4, 5 and 6, respectively. All sampling and analytical procedures were consistent with the sampling plan presented in the Keystone Ground Water Remediation Program report submitted June 15, 1992, and the Proposed Ground Water Management Zone request submitted July 16, 1993.

All analytical results were validated using SW 846 protocols and the data have been qualified accordingly on Table 1. A letter from the project chemist discussing data validation is included in the Appendix. Also included in the Appendix are the laboratory data

sheets documenting dates of analyses and analytical methods, and the chain of custody forms documenting date and time of sampling. A complete copy of the data validation package is retained in our office and at the analytical laboratory. Part or all of the QA/QC data will be provided upon request.

The piezometric surface maps (Figures 1 and 2) for April and May 1994 are similar to the February and March 1994 maps. A large depressional area in the piezometric surface is present in the area of purge wells A and B, which is also the area of highest concentrations of TCE and 1,1,1-trichloroethane (Figures 4 and 5). Ground water flow directions within the ground water management zone are being effectively controlled by the four purge wells, with contaminated water moving toward the wells.

The stripping tower was out of operation from Thursday, May 26, 1994, until Wednesday, June 22, 1994. There was a series of events that led to the prolonged shutdown. Although the system was fully operational, a shutdown was scheduled for May 24th and 25th. During this period, the acid piping system was modified and an additional in-line static mixer was added to the tower influent piping system. These two changes were made to simplify priming of the acid feed system pumps and improve mixing of the acid and water during reduced tower influent flow rates. On May 25, at 4:00 p.m., the system was put back into operation.

The system shut down on Friday, May 27. The cause of the shutdown was low effluent pH. At the time, it was felt that the effluent pH probe was out of calibration. Since it was Memorial Day weekend, the decision was made to shut the system down for the weekend and to make the necessary adjustments to the system after the holiday. The week of May 31, 1994, Keystone attempted to calibrate the effluent pH probe, but the system would only run for

30 to 60 minutes before shutting down, due to the low effluent pH. The system was shut down and a WWES technician was sent to Keystone on Monday, June 6, to diagnose the problem.

The effluent pH probe was found to be mounted in an inappropriate position, which caused it to drift out of calibration. The problem was solved and the pH probe was recalibrated on June 7. The system was started up and began operating properly. Approximately 10 to 15 minutes after startup, a PVC valve on the effluent pump discharge split and created a leak in the effluent piping system. The system was shut down immediately. All leakage was contained within the building and was collected in the building sump. Close inspection revealed that two of the three PVC valves were split. It was decided to shut the system down again for the replacement of the valves as soon as possible. Due to the delivery time required for new carbon steel valves and other repiping materials, work could not commence on the system until the week of June 14. The valves were replaced by the end of the week of June 14. The system was restarted on Friday, June 17; however, it would still only run for 30 to 60 minutes before shutting down, due to low effluent pH. The system was shut down and a WWES technician was again sent to Keystone on Wednesday, June 22, to diagnose the problem.

It was found that with the addition of the in-line static mixer to the tower influent piping, the mixer pH set point had to be raised from 4.0 to 4.45 to allow the system to operate properly. The combination of the mechanical failure of the valves and the inconsistent performance of the effluent pH probe resulted in a prolonged system shutdown. These difficulties have been resolved and a repeat of these problems is not anticipated.

Water levels were measured on June 21, 1994, one day before the air stripper was restarted. The piezometric map for the June 21 water level measurements is shown on Figure 3. The piezometric surface is nearly flat in most of the area of the ground water

management zone, and is almost identical to the piezometric surface prior to starting the pump and treat remediation system, except water levels are about 5 feet lower and the ground water flow on the north end of the site is towards the south (Keystone property). Because the ground water gradient was nearly flat and ground water flow on the north end of the site was still toward the south, contaminated ground water could not have left the site during the extended shutdown of the air stripper.

Ground water contaminant concentrations (Figures 4, 5, and 6) are consistent with previous quarterly data. Some possible differences include the apparent decrease in total volatile concentration at wells T-7, T-17, and T-19, and the increase at well T-1.

TABLE 1
GROUND WATER MONITORING RESULTS
GROUND WATER ASSESSMENT STUDY
MAY 17-18, 1994

INVESTIGATIVE WELLS

WELL NUMBER	W-1D	W-2	W-3D	W-4D	T-1	T-2A	T-3	T-3 Dup	T-4A
Temperature, field (C)	17.1	14.0	16.3	18.3	14.2	14.8	14.5	13.2	14.1
pH, field	6.92	6.51	6.95	7.14	6.47	7.02	7.14	7.32	6.86
SpC (at 25 C)	1996	1899	1956	1495	4720	1630	1030	1010	2400
VOLATILES (ug/L)									
1,1-Dichloroethane	<25	810	15	<10	<25	12	36	35	<10
1,1-Dichloroethylene	39	130	30	<10	<25	33	320	320	<10
1,2-Dichloroethylene (total)	<25	<25	20	15	59	18	160	150	<10
Tetrachloroethylene	<25	<25	<15	<10	<25	<10	<25	<25	<10
1,1,1-Trichloroethane	30	28	88	<10	<25	29	960	960	<10
Trichloroethylene	470	<25	410	360	930	250	380	370	220

INVESTIGATIVE WELLS

WELL NUMBER	T-4B	T-6A	T-6B	T-6B Dup	T-7B	T-7B Dup	T-9*	T-10	T-11B
Temperature, field (C)	13.8	16.4	17.0	17.2	13.5	13.3	16.8	21.0	18.4
pH, field	6.90	6.46	7.20	7.24	7.05	7.14	7.23	6.21	6.82
SpC (at 25 C)	1900	1435	1623	1609	1979	1921	1605	6490	2630
VOLATILES (ug/L)									
1,1-Dichloroethane	26	39	<5	<5	<25	<25	12	<50	<5
1,1-Dichloroethylene	14	73	<5	<5	<25	<25	73	<50	<5
1,2-Dichloroethylene (total)	26	<15	<5	<5	40	38	5	140	8
Tetrachloroethylene	<10	<15	<5	<5	<25	<25	<5	<50	<5
1,1,1-Trichloroethane	<10	370	5	6	<25	<25	95	<50	<5
Trichloroethylene	360	<15	63	75	730	700	97	1200	61

A less than sign (<) indicates that the compound was nondetectable at the specified detection limit.
*2-Hexanone detected at 78 ug/L in sample T-9

TABLE 1
GROUND WATER MONITORING RESULTS
GROUND WATER ASSESSMENT STUDY
MAY 17-18, 1994

INVESTIGATIVE WELLS

WELL NUMBER	T-11C	* T-13B	T-16	T-17	T-17 Dup	T-19C	T-20	T-23
Temperature, field (C)	19.3	12.0	14.4	21.8	21.0	19.5	15.8	13.8
pH, field	6.97	6.29	6.80	7.13	7.17	7.05	6.55	6.91
SpC (at 25 C)	2110	13480	2410	1024	1017	2950	3820	2790
VOLATILES (ug/L)								
1,1-Dichloroethane	<5	<10	<10	48	45	<5	<5	<5
1,1-Dichloroethylene	<5	<10	<10	92	84	<5	<5	<5
1,2-Dichloroethylene (total)	<5	170	<10	76	76	<5	<5	<5
Tetrachloroethylene	<5	<10	<10	330	310	<5	<5	<5
1,1,1-Trichloroethane	<5	<10	13	500	490	<5	<5	<5
Trichloroethylene	45	72	200	163	150	6	13	<5

BASE WELLS

WELL NUMBER	T-2B	T-5A	T-5B	T-5C	T-6C	T-7A	T-8	T-11A	T-14
Temperature, field (C)	14.3	20.4	19.2	19.8	17.2	13.4	14	19.9	13.8
pH, field	6.61	7.16	7.09	6.88	6.86	6.62	7.04	7.01	6.85
SpC (at 25 C)	4880	1287	2240	3260	4320	3560	1785	1258	2210
VOLATILES (ug/L)									
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethylene (total)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethylene	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<5	<5	<5	<5	<5	<5	<5	<5	<5

A less than sign (<) indicates that the compound was nondetectable at the specified detection limit.

* Methylene Chloride detected at 20 ug/L in sample T-13B.

TABLE 1
GROUND WATER MONITORING RESULTS
GROUND WATER ASSESSMENT STUDY
MAY 17-18, 1994

WELL NUMBER	T-18	T-19A	T-19B	T-21	T-22A	T-22B	T-25A	T-25B
Temperature, field (C)	20.2	20.7	20.7	10.8	19.4	18.9	16.3	16.0
pH, field	7.09	7.71	7.20	6.58	8.31	7.42	7.02	7.10
SpC (at 25 C)	970	736	1518	2370	562	1096	1266	1754
VOLATILES (ug/L)								
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethylene (total)	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethylene	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<5	<5	<5	<5	<5	<5	<5	<5

	UPGRADIENT WELL	BLANKS				TRIP BLANK
WELL NUMBER	T-15	Blank 202	Blank 206	Blank 218	Blank 322	Trip Blank
Temperature, field (C)	13.9	NA	NA	NA	NA	NA
pH, field	7.08	NA	NA	NA	NA	NA
SpC (at 25 C)	1129	NA	NA	NA	NA	NA
VOLATILES (ug/L)						
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5	<5	<5	<5
1,2-Dichloroethylene (total)	<5	<5	<5	<5	<5	<5
Tetrachloroethylene	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5
Trichloroethylene	<5	<5	<5	<5	<5	<5

NA - not analyzed

A less than sign (<) indicates that the compound was nondetectable at the specified detection limit.

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			April 14, 1994	
T-1	453.57	49.23	12.08	441.49
T-2A	450.11	44.26	9.59	440.52
T-2B	450.25	66.90	10.60	439.65
T-3	450.57	60.70	11.33	439.24
T-4A	449.42	27.24	9.12	440.30
T-4B	449.44	79.30	8.12	441.32
T-5A	448.04	33.16	6.25	441.79
T-5B	448.27	66.08	7.06	441.21
T-5C	448.21	82.84	6.11	442.10
T-6A	451.67	19.63	6.82	444.85
T-6B	451.72	34.94	10.18	441.54
T-6C	452.00	55.16	11.30	440.70
T-7A	448.55	18.18	5.33	443.22
T-7B	448.56	81.75	6.94	441.62
T-8	451.00	31.61	10.13	440.87
T-9	459.85	35.47	19.90	439.95
T-10	456.60	40.62	16.11	440.49
T-11A	451.12	40.98	9.06	442.06
T-11B	451.39	82.66	9.72	441.67
T-11C	451.23	99.21	9.32	441.91
T-13A	464.25	27.64	18.77	445.48
T-13B	464.44	32.03	18.87	445.57
T-14	452.47	102.05	10.80	441.67
T-15	454.70	20.25	6.48	448.22
T-16	450.51	41.96	8.82	441.69
T-17	461.62	41.90	20.94	440.68
T-18	462.92	32.02	15.90	447.02
T-19A	448.74	11.84	6.07	442.67
T-19B	449.45	39.83	7.20	442.25
T-19C	448.46	70.43	6.23	442.23
T-20	455.97	47.44	14.42	441.55
T-21	468.82	17.70	12.42	456.40
T-22A	447.97	68.56	4.85	443.12
T-22B	447.37	119.29	5.16	442.21
T-23	451.70	87.59	9.61	442.09
T-25A	452.65	39.58	10.18	442.47
T-25B	453.65	94.23	10.41	443.24

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			April 14, 1994	
P-1A	450.86	34.80	8.40	442.46
P-1B	450.75	71.26	8.72	442.03
P-2	459.71	92.43	17.68	442.03
P-3	447.27	39.37	6.05	441.22
P-4	447.23	68.41	6.04	441.19
P-5	447.11	69.97	5.62	441.49
P-6	446.90	67.14	5.48	441.42
P-7	450.72	29.61	8.93	441.79
P-8	450.80	49.73	9.42	441.38
P-9	450.38	74.20	8.10	442.28
W-1	449.85	8.96	5.70	444.15
W-1D	448.82	50.28	8.78	440.04
W-2	451.79	12.24	7.74	444.05
W-2D	451.33	50.04	10.83	440.50
W-3	447.14	9.17	3.10	444.04
W-3D	446.94	50.34	7.06	439.88
W-4	450.67	9.97	4.60	446.07
W-4D	449.44	50.29	9.65	439.79
W-5	464.02	22.26	19.23	444.79
W-5D	463.76	36.22	19.10	444.66
W-6	461.38	10.06	7.76	453.62
W-7	459.21	14.51	4.15	455.06
W-8	455.01	16.66	8.40	446.61
W-9	449.78	14.85	5.62	444.16
W-10	451.33	14.74	7.21	444.12
W-11	450.15	14.87	5.35	444.80
W-12	460.38	21.04	13.50	446.88
W-13	459.62	24.62	Destroyed	
W-14	460.75	20.77	NA	
W-15	451.80	12.35	4.54	447.26
W-16	451.77	12.11	5.80	445.97
W-17	452.73	12.13	5.20	447.53
W-18	451.08	12.26	4.95	446.13
AD-1	449.02	16.06	NC	

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			April 14, 1994	
AD-2	447.90	13.16	NC	
AD-3	447.60	15.90	NC	
AD-4	447.93	13.23	NC	
AD-5	447.57	15.87	NC	
CL-1	450.13	19.20	5.19	444.94
CL-2	450.10	20.11	5.42	444.68
CL-3	450.27	23.63	5.33	444.94
CL-4	450.56	23.29	5.53	445.03
CL-5	453.74	27.04	9.55	444.19

NA = Well not accessable
NC = Not collected

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			May 16, 1994	
T-1	453.57	49.23	12.55	441.02
T-2A	450.11	44.26	10.76	439.35
T-2B	450.25	66.90	13.25	437.00
T-3	450.57	60.70	11.71	438.86
T-4A	449.42	27.24	10.25	439.17
T-4B	449.44	79.30	10.11	439.33
T-5A	448.04	33.16	7.10	440.94
T-5B	448.27	66.08	8.06	440.21
T-5C	448.21	82.84	6.91	441.30
T-6A	451.67	19.63	7.09	444.58
T-6B	451.72	34.94	10.95	440.77
T-6C	452.00	55.16	11.72	440.28
T-7A	448.55	18.18	6.32	442.23
T-7B	448.56	81.75	9.54	439.02
T-8	451.00	31.61	10.78	440.22
T-9	459.85	35.47	20.13	439.72
T-10	456.60	40.62	20.13	436.47
T-11A	451.12	40.98	9.80	441.32
T-11B	451.39	82.66	11.75	439.64
T-11C	451.23	99.21	10.35	440.88
T-13A	464.25	27.64	19.59	444.66
T-13B	464.44	32.03	19.66	444.78
T-14	452.47	102.05	12.11	440.36
T-15	454.70	20.25	7.84	446.86
T-16	450.51	41.96	9.45	441.06
T-17	461.62	41.90	21.48	440.14
T-18	462.92	32.02	17.70	445.22
T-19A	448.74	11.84	7.00	441.74
T-19B	449.45	39.83	8.02	441.43
T-19C	448.46	70.43	7.10	441.36
T-20	455.97	47.44	15.05	440.92
T-21	468.82	17.70	12.72	456.10
T-22A	447.97	68.56	5.81	442.16
T-22B	447.37	119.29	6.00	441.37
T-23	451.70	87.59	10.20	441.50
T-25A	452.65	39.58	11.45	441.20
T-25B	453.65	94.23	11.04	442.61

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			May 16, 1994	
P-1A	450.86	34.80	9.85	441.01
P-1B	450.75	71.26	9.30	441.45
P-2	459.71	92.43	18.25	441.46
P-3	447.27	39.37	6.61	440.66
P-4	447.23	68.41	8.90	438.33
P-5	447.11	69.97	8.74	438.37
P-6	446.90	67.14	8.31	438.59
P-7	450.72	29.61	9.45	441.27
P-8	450.80	49.73	20.87	429.93
P-9	450.38	74.20	8.94	441.44
W-1	449.85	8.96	5.98	443.87
W-1D	448.82	50.28	9.75	439.07
W-2	451.79	12.24	7.87	443.92
W-2D	451.33	50.04	12.01	439.32
W-3	447.14	9.17	4.60	442.54
W-3D	446.94	50.34	8.10	438.84
W-4	450.67	9.97	6.06	444.61
W-4D	449.44	50.29	9.95	439.49
W-5	464.02	22.26	19.40	444.62
W-5D	463.76	36.22	18.95	444.81
W-6	461.38	10.06	8.16	453.22
W-7	459.21	14.51	5.40	453.81
W-8	455.01	16.66	8.77	446.24
W-9	449.78	14.85	5.60	444.18
W-10	451.33	14.74	8.20	443.13
W-11	450.15	14.87	5.46	444.69
W-12	460.38	21.04	14.54	445.84
W-13	459.62	24.62	NA	
W-14	460.75	20.77	NA	
W-15	451.80	12.35	5.20	446.60
W-16	451.77	12.11	5.00	446.77
W-17	452.73	12.13	5.08	447.65
W-18	451.08	12.26	4.32	446.76
AD-1	449.02	16.06	5.48	443.54

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			May 16, 1994	
AD-2	447.90	13.16	4.90	443.00
AD-3	447.60	15.90	3.65	443.95
AD-4	447.93	13.23	4.10	443.83
AD-5	447.57	15.87	3.83	443.74
CL-1	450.13	19.20	5.46	444.67
CL-2	450.10	20.11	5.85	444.25
CL-3	450.27	23.63	5.75	444.52
CL-4	450.56	23.29	5.93	444.63
CL-5	453.74	27.04	10.10	443.64

NA = Well not accessable
NC = Not collected

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			June 21, 1994	
T-1	453.57	49.23	13.70	439.87
T-2A	450.11	44.26	9.95	440.16
T-2B	450.25	66.90	10.12	440.13
T-3	450.57	60.70	10.62	439.95
T-4A	449.42	27.24	6.93	442.49
T-4B	449.44	79.30	9.48	439.96
T-5A	448.04	33.16	8.15	439.89
T-5B	448.27	66.08	8.33	439.94
T-5C	448.21	82.84	8.71	439.50
T-6A	451.67	19.63	7.14	444.53
T-6B	451.72	34.94	11.75	439.97
T-6C	452.00	55.16	12.00	440.00
T-7A	448.55	18.18	6.71	441.84
T-7B	448.56	81.75	8.81	439.75
T-8	451.00	31.61	11.33	439.67
T-9	459.85	35.47	19.13	440.72
T-10	456.60	40.62	16.03	440.57
T-11A	451.12	40.98	11.14	439.98
T-11B	451.39	82.66	11.83	439.56
T-11C	451.23	99.21	11.92	439.31
T-13A	464.25	27.64	19.94	444.31
T-13B	464.44	32.03	19.96	444.48
T-14	452.47	102.05	13.05	439.42
T-15	454.70	20.25	8.10	446.60
T-16	450.51	41.96	10.70	439.81
T-17	461.62	41.90	21.14	440.48
T-18	462.92	32.02	17.70	445.22
T-19A	448.74	11.84	8.36	440.38
T-19B	449.45	39.83	9.71	439.74
T-19C	448.46	70.43	8.79	439.67
T-20	455.97	47.44	16.00	439.97
T-21	468.82	17.70	12.76	456.06
T-22A	447.97	68.56	7.98	439.99
T-22B	447.37	119.29	8.13	439.24
T-23	451.70	87.59	12.12	439.58
T-25A	452.65	39.58	12.77	439.88
T-25B	453.65	94.23	13.01	440.64

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			June 21, 1994	
P-1A	450.86	34.80	11.14	439.72
P-1B	450.75	71.26	11.08	439.67
P-2	459.71	92.43	20.11	439.60
P-3	447.27	39.37	7.46	439.81
P-4	447.23	68.41	7.28	439.95
P-5	447.11	69.97	7.22	439.89
P-6	446.90	67.14	6.98	439.92
P-7	450.72	29.61	10.75	439.97
P-8	450.80	49.73	10.10	440.70
P-9	450.38	74.20	10.70	439.68
W-1	449.85	8.96	5.39	444.46
W-1D	448.82	50.28	8.50	440.32
W-2	451.79	12.24	7.30	444.49
W-2D	451.33	50.04	11.27	440.06
W-3	447.14	9.17	3.78	443.36
W-3D	446.94	50.34	6.62	440.32
W-4	450.67	9.97	8.06	442.61
W-4D	449.44	50.29	9.21	440.23
W-5	464.02	22.26	19.55	444.47
W-5D	463.76	36.22	19.58	444.18
W-6	461.38	10.06	8.16	453.22
W-7	459.21	14.51	6.58	452.63
W-8	455.01	16.66	10.17	444.84
W-9	449.78	14.85	5.22	444.56
W-10	451.33	14.74	8.77	442.56
W-11	450.15	14.87	7.21	442.94
W-12	460.38	21.04	15.02	445.36
W-13	459.62	24.62	13.08	446.54
W-14	460.75	20.77	11.28	449.47
W-15	451.80	12.35	6.18	445.62
W-16	451.77	12.11	6.10	445.67
W-17	452.73	12.13	5.56	447.17
W-18	451.08	12.26	5.12	445.96
AD-1	449.02	16.06	NC	

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			June 21, 1994	
AD-2	447.90	13.16	NC	
AD-3	447.60	15.90	NC	
AD-4	447.93	13.23	NC	
AD-5	447.57	15.87	NC	
CL-1	450.13	19.20	8.42	441.71
CL-2	450.10	20.11	8.47	441.63
CL-3	450.27	23.63	7.68	442.59
CL-4	450.56	23.29	6.95	443.61
CL-5	453.74	27.04	11.21	442.53

NA = Well not accessable
NC = Not collected

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

TBM LOCATION	TBM ELEVATION (feet)	DEPTH TO WATER BELOW TBM (feet)	ELEVATION OF WATER (feet)
DATE:		April 14, 1994	
TBM-1E	449.27	>3.80	<445.47
TBM-1W	447.89	>3.30	<444.09
TBM-3N	448.61	>3.70	<444.91
TBM-3S	449.02	>3.85	<445.17
TBM-4W	449.19	>4.35	<444.84
TBM-4S	445.68	1.55	444.13
TBM-6W	459.60	4.75	454.85
TBM-9	446.88	2.85	444.03
TBM-10	449.98	M	
TBM-10E	450.61	3.35	447.26
TBM-11	447.22	1.40	445.82
TBM-12	443.44	2.05	441.39
Illinois River			
Peoria Lock & Dam			
upper pool			440.25
lower pool			440.15

1. Illinois River data were obtained from the Army Corps of Engineers, Rock Island District.

2. M = missed measurement.

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

TBM LOCATION	TBM ELEVATION (feet)	DEPTH TO WATER BELOW TBM (feet)	ELEVATION OF WATER (feet)
DATE:		May 16, 1994	
TBM-1E	449.27	M	
TBM-1W	447.89	M	
TBM-3N	448.61	M	
TBM-3S	449.02	M	
TBM-4W	449.19	M	
TBM-4S	445.68	M	
TBM-6W	459.60	4.10	455.50
TBM-9	446.88	M	
TBM-10	449.98	M	
TBM-10E	450.61	M	
TBM-11	447.22	M	
TBM-12	443.44	M	
Illinois River			
Peoria Lock & Dam			
upper pool			439.78
lower pool			439.66

1. Illinois River data were obtained from the Army Corps of Engineers, Rock Island District.

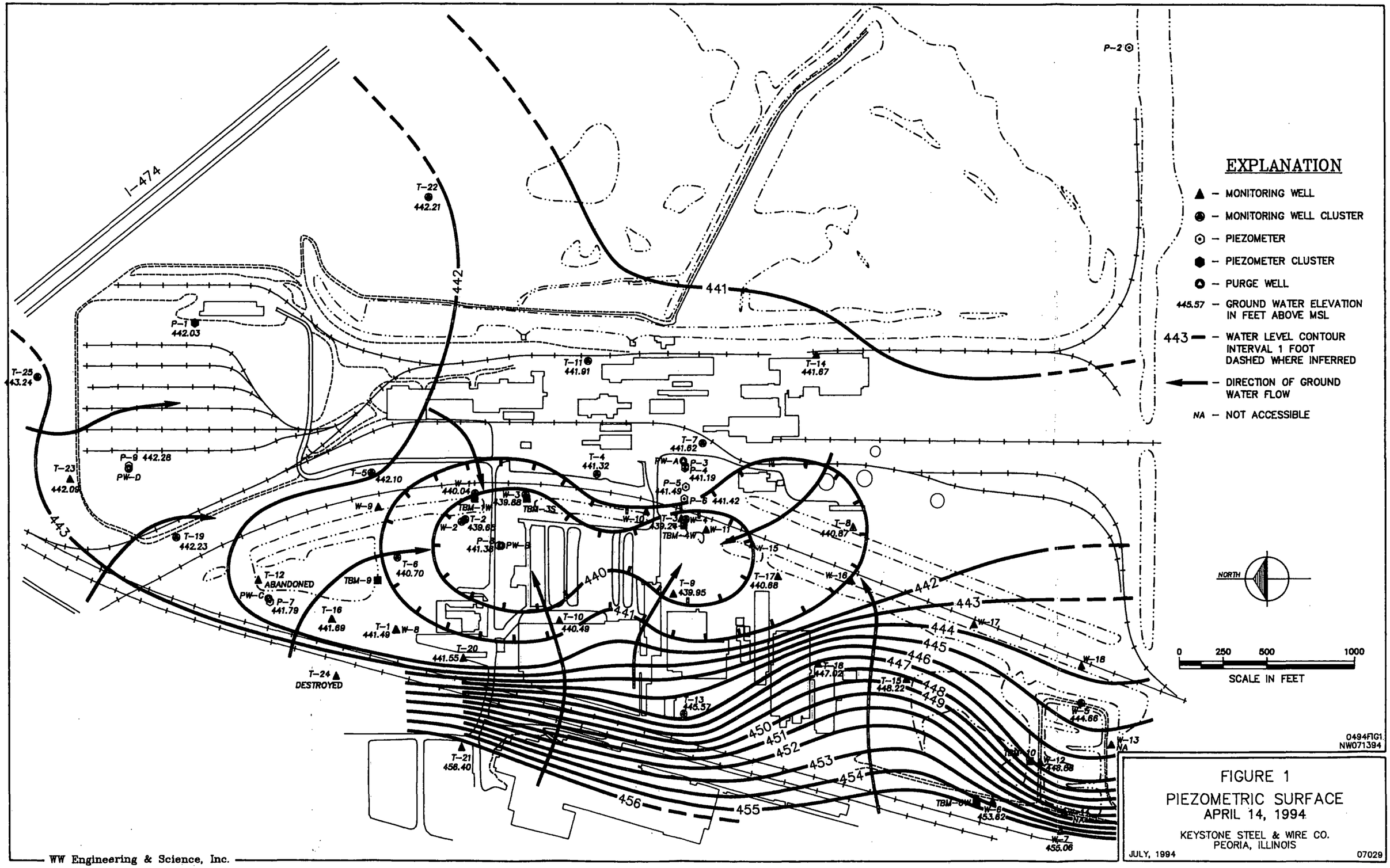
2. M = missed measurement.

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

TBM LOCATION	TBM ELEVATION (feet)	DEPTH TO WATER BELOW TBM (feet)	ELEVATION OF WATER (feet)
DATE:		June 22, 1994	
TBM-1E	449.27	>3.80	<445.47
TBM-1W	447.89	3.40	444.49
TBM-3N	448.61	4.30	444.31
TBM-3S	449.02	>3.85	<445.17
TBM-4W	449.19	2.20	446.99
TBM-4S	445.68	M	
TBM-6W	459.60	4.90	454.70
TBM-9	446.88	2.50	444.38
TBM-10	449.98	M	
TBM-10E	450.61	3.90	446.71
TBM-11	447.22	2.90	444.32
TBM-12	443.44	2.60	440.84
Illinois River			
Peoria Lock & Dam			
upper pool			440.19
lower pool			435.69

1. Illinois River data were obtained from the Army Corps of Engineers, Rock Island District.

2. M = missed measurement.



0494FIG1
NW071394

FIGURE 1
PIEZOMETRIC SURFACE
APRIL 14, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

JULY, 1994 07029

WW Engineering & Science, Inc.

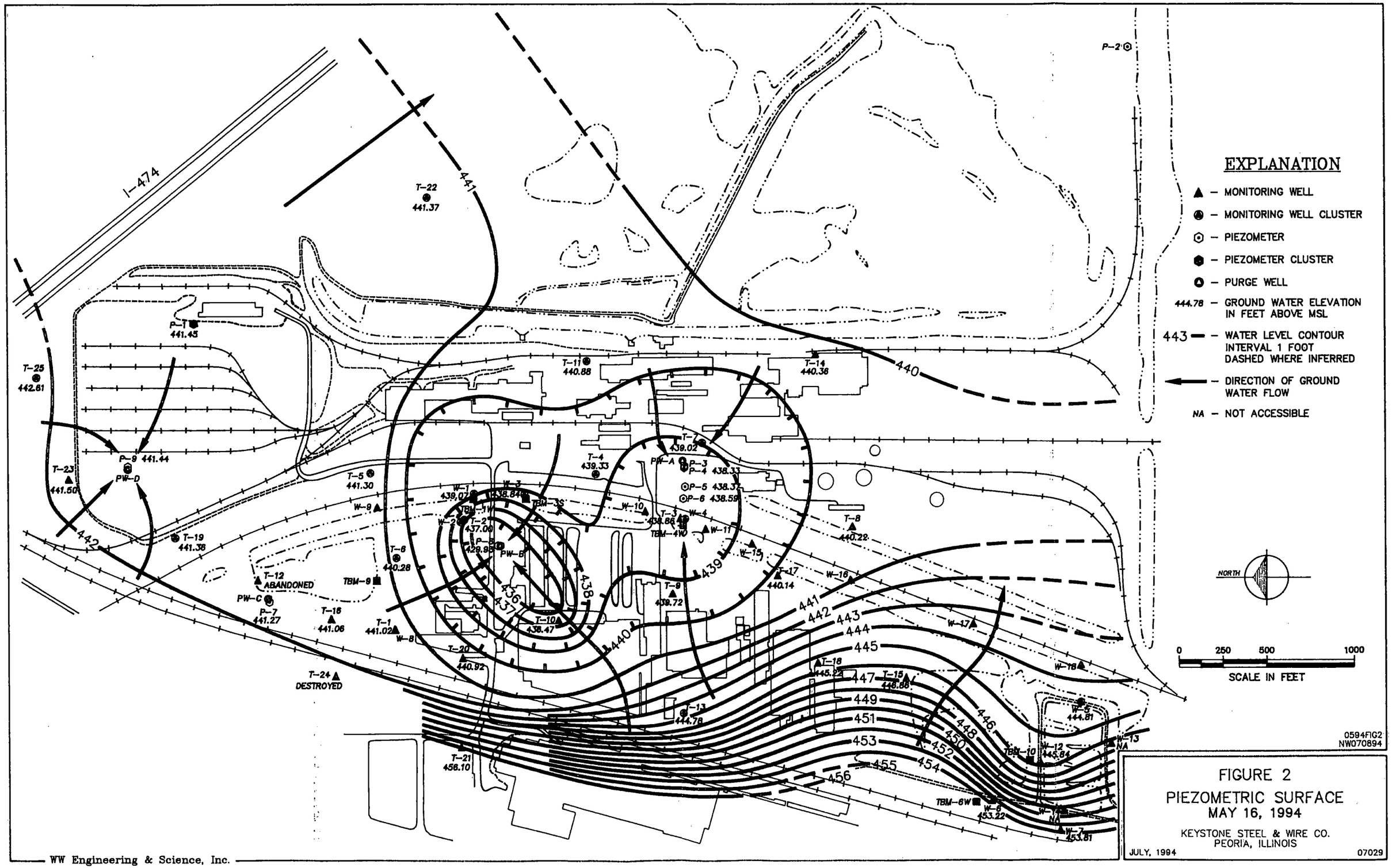


FIGURE 2
PIEZOMETRIC SURFACE
MAY 16, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

JULY, 1994 07029

WW Engineering & Science, Inc.

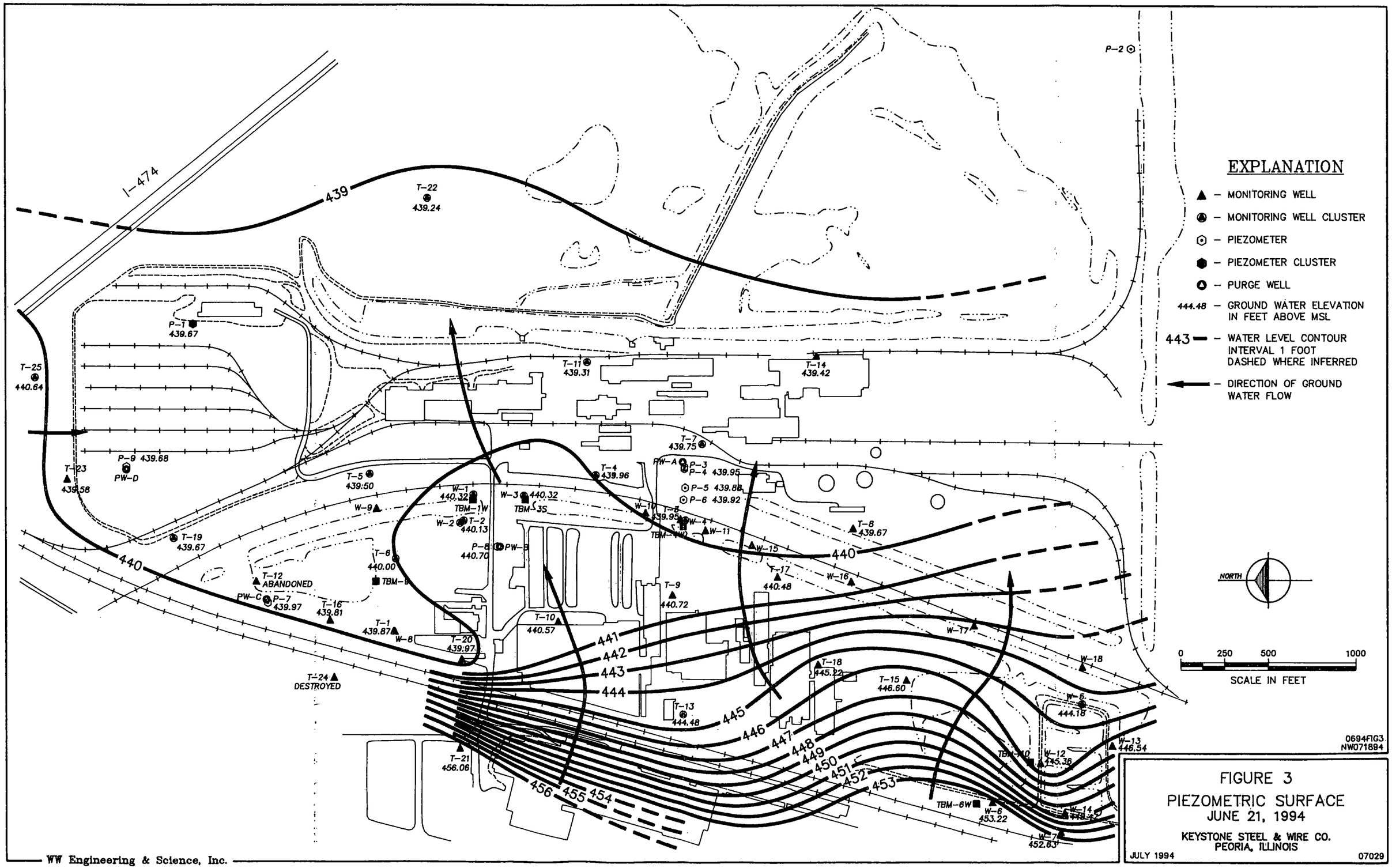
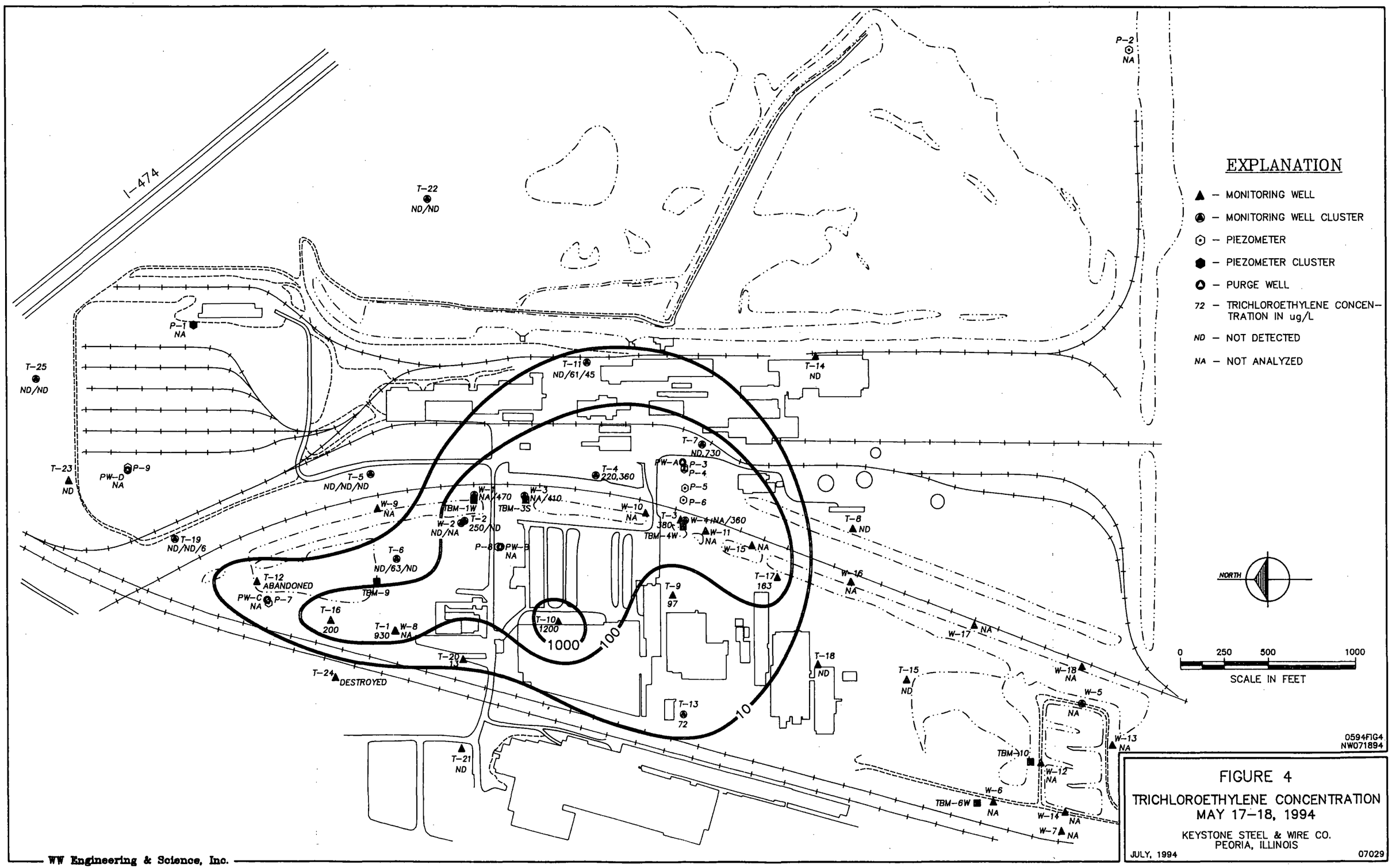


FIGURE 3
PIEZOMETRIC SURFACE
JUNE 21, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

JULY 1994 07029

WW Engineering & Science, Inc.



EXPLANATION

- ▲ – MONITORING WELL
- ◉ – MONITORING WELL CLUSTER
- ⊙ – PIEZOMETER
- ⬢ – PIEZOMETER CLUSTER
- ◉ – PURGE WELL
- 72 – TRICHLOROETHYLENE CONCENTRATION IN ug/L
- ND – NOT DETECTED
- NA – NOT ANALYZED

FIGURE 4

TRICHLOROETHYLENE CONCENTRATION
MAY 17–18, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

JULY, 1994

07029

WW Engineering & Science, Inc.

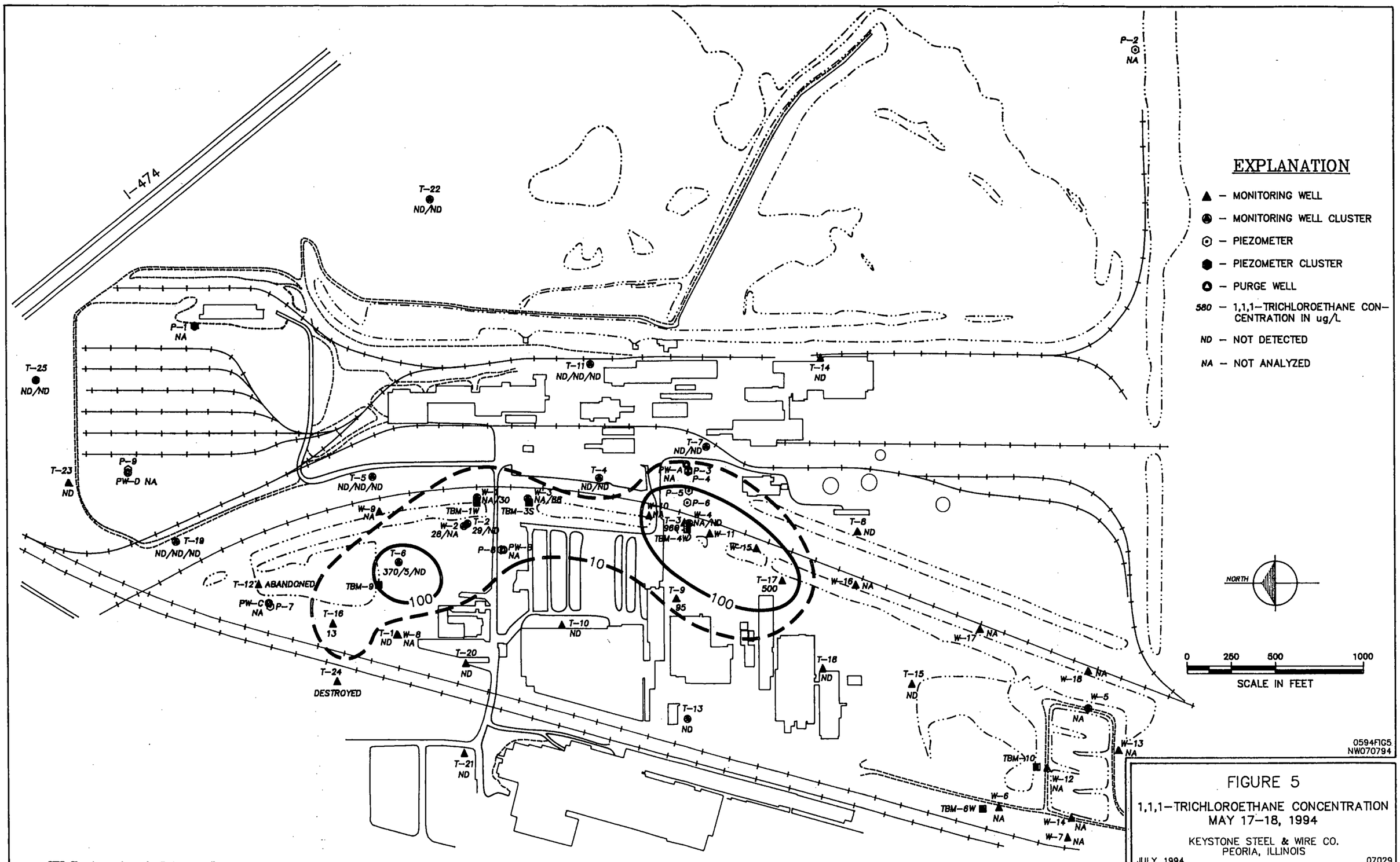


FIGURE 5

1,1,1-TRICHLOROETHANE CONCENTRATION
MAY 17-18, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

JULY, 1994 07029

WW Engineering & Science, Inc.

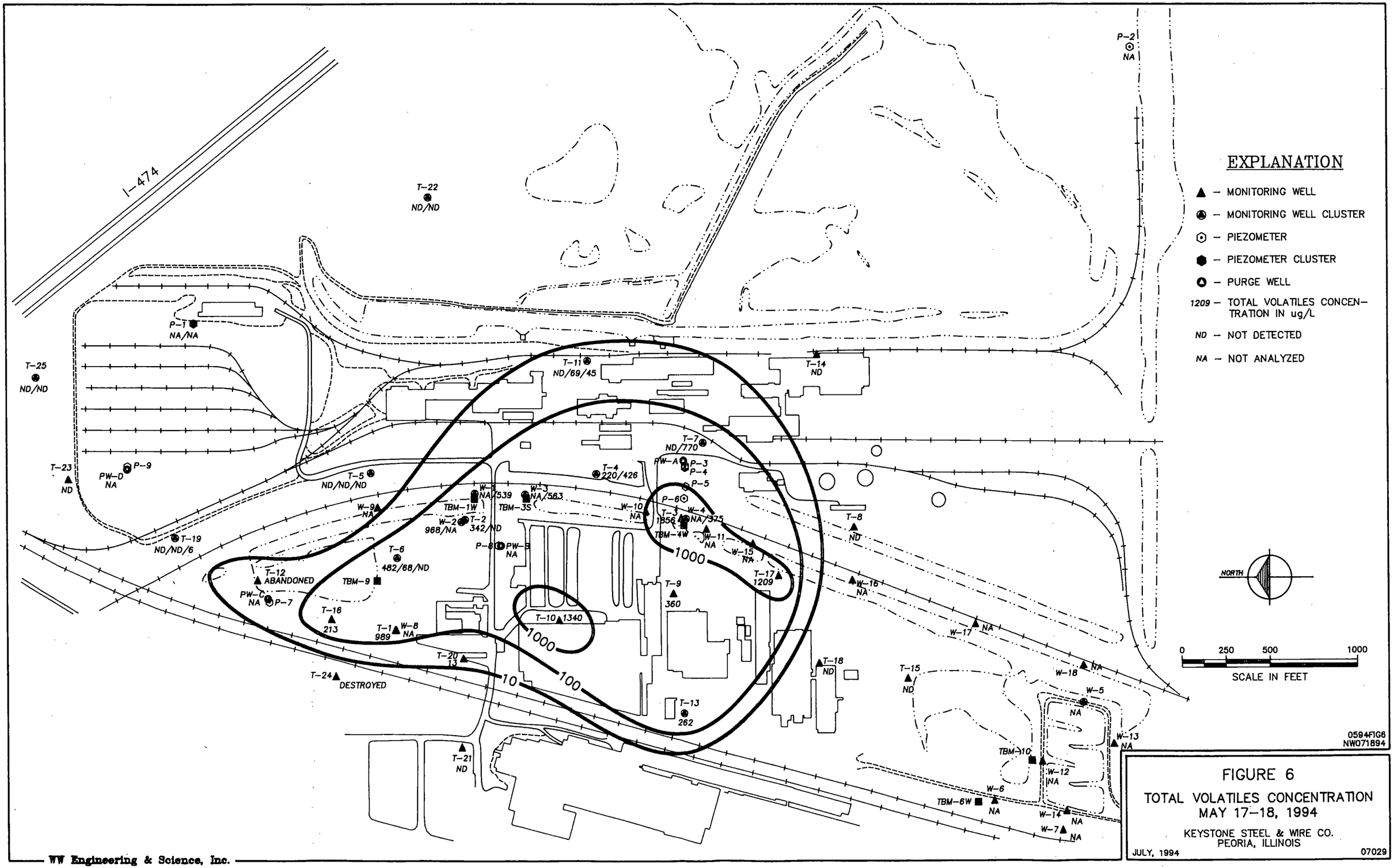


FIGURE 6

TOTAL VOLATILES CONCENTRATION
MAY 17–18, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

JULY, 1994

07029

WW Engineering & Science, Inc.

WW Engineering & Science
A Summit Company

June 16, 1994

Dr. Robert Aten
Earth Tech/WWES
5010 Stone Mill Road
Bloomington, IN 47408

Dear Dr. Aten:

Enclosed please find the analytical report and data validation package for the Keystone Monitoring Program. All data were deemed acceptable with the exception of the following: the trichloroethylene result for sample 12452-101 (influent) should be considered estimated because the result exceeded the linear range of the instrument.

If you have any questions please call.

Sincerely,

EARTH TECH/WWES
ENVIRONMENTAL LABORATORY DIVISION

Ray V. Buhl

Ray V. Buhl
Senior Project Chemist

Buhl4/RA

5555 Glenwood Hills Parkway SE PO Box 874 Grand Rapids, MI 49588-0874 616/942-9600 Fax 616/942-6499
Bloomington, IN Chattanooga, TN Columbus, OH Detroit, MI Indianapolis, IN Milwaukee, WI Minneapolis, MN

WW Engineering & Science
A Summit Company

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-123
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: W-1D

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-123
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: W-1D

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	30
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	<25
1,1-Dichloroethene	39
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	470
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-123
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: W-1D

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<25
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

WW Engineering & Science
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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-146
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: W-2

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/25/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-146
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: W-2

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	28
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	810
1,1-Dichloroethene	130
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	63
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	<25
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-146
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: W-2

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<25
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

WW Engineering & Science
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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-127
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: W-3D

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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ANALYTICAL SERVICES

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-127
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: W-3D

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	88
1,1,2,2-Tetrachloroethane	<15
1,1,2-Trichloroethane	<15
1,1-Dichloroethane	15
1,1-Dichloroethene	30
1,2-Dichloroethane	<15
1,2-Dichloropropane	<15
2-Butanone	<300
2-Chloroethyl vinyl ether	<30
2-Hexanone	<150
4-Methyl-2-pentanone	<150
Acetone	<300
Benzene	<15
Bromodichloromethane	<15
Bromoform	<15
Bromomethane	<30
Carbon Disulfide	<300
Carbon Tetrachloride	<15
Chlorobenzene	<15
Chloroethane	<30
Chloroform	<15
Chloromethane	<30
Dibromochloromethane	<15
Ethylbenzene	<15
Methylene Chloride	<15
Styrene	<15
Tetrachloroethene	<15
Toluene	<15
Trichloroethene	410
Vinyl Acetate	<150
Vinyl Chloride	<30

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-127
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: W-3D

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	20
cis-1,3-Dichloropropene	<15
m-Xylene/p-Xylene	<15
o-Xylene	<15
trans-1,2-Dichloroethene	<15
trans-1,3-Dichloropropene	<15

WW Engineering & Science
A Summit Company

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-148
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: W-4D

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/25/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-148
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: W-4D

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<10
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	<10
1,1-Dichloroethene	<10
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	360
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-148
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: W-4D

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	15
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

WW Engineering & Science
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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-144
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-1

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/25/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-144
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-1

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<25
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	<25
1,1-Dichloroethene	<25
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	930
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-144
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-1

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	59
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

WW Engineering & Science
A Summit Company

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-143
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-2A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/25/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-143
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-2A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	29
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	12
1,1-Dichloroethene	33
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	250
Vinyl Acetate	<100
Vinyl Chloride	<20

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-143
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-2A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	18
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

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LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-133
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-3

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-133
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-3

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	960
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	36
1,1-Dichloroethene	320
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	380
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-133
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-3

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	160
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-132
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-3 DUP

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-132
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-3 DUP

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	960
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	35
1,1-Dichloroethene	320
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	370
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-132
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-3 DUP

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	150
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-139
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-4A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-139
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-4A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<10
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	<10
1,1-Dichloroethene	<10
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	220
Vinyl Acetate	<100
Vinyl Chloride	<20

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ANALYTICAL SERVICES

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-139
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-4A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<10
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-141
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-4B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/25/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
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Date Received: 05/19/1994

Lab Sample ID: 13101-141
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-4B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<10
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	26
1,1-Dichloroethene	14
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	360
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-141
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-4B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	26
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-112
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-6A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-112
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-6A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	370
1,1,2,2-Tetrachloroethane	<15
1,1,2-Trichloroethane	<15
1,1-Dichloroethane	39
1,1-Dichloroethene	73
1,2-Dichloroethane	<15
1,2-Dichloropropane	<15
2-Butanone	<300
2-Chloroethyl vinyl ether	<30
2-Hexanone	<150
4-Methyl-2-pentanone	<150
Acetone	<300
Benzene	<15
Bromodichloromethane	<15
Bromoform	<15
Bromomethane	<30
Carbon Disulfide	<300
Carbon Tetrachloride	<15
Chlorobenzene	<15
Chloroethane	<30
Chloroform	<15
Chloromethane	<30
Dibromochloromethane	<15
Ethylbenzene	<15
Methylene Chloride	<15
Styrene	<15
Tetrachloroethene	<15
Toluene	<15
Trichloroethene	<15
Vinyl Acetate	<150
Vinyl Chloride	<30

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-112
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-6A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<15
cis-1,3-Dichloropropene	<15
m-Xylene/p-Xylene	<15
o-Xylene	<15
trans-1,2-Dichloroethene	<15
trans-1,3-Dichloropropene	<15

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-128
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-6B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-128
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-6B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	63
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-128
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-6B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-105
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-6B DUP

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/22/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-105
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-6B DUP

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	6
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	75
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-105
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-6B DUP

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-131
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-7B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/25/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-131
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-7B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<25
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	<25
1,1-Dichloroethene	<25
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	730
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-131
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-7B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	40
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-130
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-7B DUP

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-130
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-7B DUP

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<25
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	<25
1,1-Dichloroethene	<25
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	700
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-130
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-7B DUP

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	38
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-104
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-9

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/22/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-104
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-9

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	95
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	12
1,1-Dichloroethene	73
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	78
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	97
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-104
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-9

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-124
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-10

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
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Date Received: 05/19/1994

Lab Sample ID: 13101-124
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-10

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<50
1,1,2,2-Tetrachloroethane	<50
1,1,2-Trichloroethane	<50
1,1-Dichloroethane	<50
1,1-Dichloroethene	<50
1,2-Dichloroethane	<50
1,2-Dichloropropane	<50
2-Butanone	<1000
2-Chloroethyl vinyl ether	<100
2-Hexanone	<500
4-Methyl-2-pentanone	<500
Acetone	<1000
Benzene	<50
Bromodichloromethane	<50
Bromoform	<50
Bromomethane	<100
Carbon Disulfide	<1000
Carbon Tetrachloride	<50
Chlorobenzene	<50
Chloroethane	<100
Chloroform	<50
Chloromethane	<100
Dibromochloromethane	<50
Ethylbenzene	<50
Methylene Chloride	<50
Styrene	<50
Tetrachloroethene	<50
Toluene	<50
Trichloroethene	1200
Vinyl Acetate	<500
Vinyl Chloride	<100

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ANALYTICAL SERVICES

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-124
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-10

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	140
cis-1,3-Dichloropropene	<50
m-Xylene/p-Xylene	<50
o-Xylene	<50
trans-1,2-Dichloroethene	<50
trans-1,3-Dichloropropene	<50

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-136
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-11B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-136
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-11B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	61
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-136
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-11B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	8
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-107
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-11C

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/22/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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ANALYTICAL SERVICES

Volatile Organic Analysis Report

Attn: Bob Aten
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Date Received: 05/19/1994

Lab Sample ID: 13101-107
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-11C

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	45
Vinyl Acetate	<50
Vinyl Chloride	<10

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Volatile Organic Analysis Report

Attn: Bob Aten
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Date Received: 05/19/1994

Lab Sample ID: 13101-107
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-11C

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-102
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-13B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/22/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
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Date Received: 05/19/1994

Lab Sample ID: 13101-102
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-13B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<10
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	<10
1,1-Dichloroethene	<10
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	20
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	72
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-102
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-13B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	170
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-129
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-16

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-129
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-16

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	13
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	<10
1,1-Dichloroethene	<10
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	200
Vinyl Acetate	<100
Vinyl Chloride	<20

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-129
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-16

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<10
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

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LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-114
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-17

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
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Date Received: 05/19/1994

Lab Sample ID: 13101-114
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-17

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	500
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	48
1,1-Dichloroethene	92
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	330
Toluene	<25
Trichloroethene	163
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-114
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-17

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	76
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-115
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-17 DUP

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
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Date Received: 05/19/1994

Lab Sample ID: 13101-115
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-17 DUP

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	490
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	45
1,1-Dichloroethene	84
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	310
Toluene	<25
Trichloroethene	150
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-115
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-17 DUP

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	76
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-113
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-19C

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-113
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-19C

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	6
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-113
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-19C

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science
5010 Stone Mill Rd.
Bloomington IN 47408

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-101
Sample Matrix: GR. WATER

Purchase Order:

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-20

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/22/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Authorized By: Angela Gardner
Lab Project Manager

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-101
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-20

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	13
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-101
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-20

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

WW Engineering & Science
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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-122
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-23

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-122
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-23

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-122
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-23

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-145
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-2B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/25/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-145
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-2B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-145
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-2B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-134
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-5A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-134
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-5A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-134
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-5A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-110
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-5B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-110
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-5B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-110
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-5B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-109
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-5C

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/22/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
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Date Received: 05/19/1994

Lab Sample ID: 13101-109
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-5C

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-109
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-5C

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-135
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-6C

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-135
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-6C

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-135
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-6C

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-138
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-7A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-138
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-7A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-138
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-7A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-142
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-8

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/26/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-142
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-8

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-142
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-8

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-111
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-11 A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/22/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-111
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-11 A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-111
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-11 A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-140
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-14

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-140
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-14

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-140
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-14

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

WW Engineering & Science
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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-116
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-18

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-116
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-18

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-116
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-18

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-106
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-19A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/22/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-106
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-19A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-106
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-19A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/17/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-108
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-19B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/22/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-108
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-19B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-108
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-19B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-103
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-21

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/22/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-103
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-21

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-103
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-21

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-119
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-22A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-119
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-22A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-119
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-22A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-120
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-22B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-120
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-22B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-120
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-22B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-126
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-25A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-126
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-25A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-126
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-25A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-125
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-25B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-125
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-25B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-125
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-25B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-147
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: T-15

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/25/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-147
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-15

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-147
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: T-15

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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LABORATORY REPORT

Attn: Bob Aten
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Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-137
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: BLANK-202

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/24/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-137
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: BLANK-202

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-137
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: BLANK-202

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

WW Engineering & Science
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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-118
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: BLANK-206

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/26/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-118
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: BLANK-206

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-118
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: BLANK-206

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

WW Engineering & Science
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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-117
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: BLANK-218

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-117
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: BLANK-218

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-117
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: BLANK-218

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

WW Engineering & Science
A Summit Company

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-121
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: BLANK-322

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/23/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE. PO Box 3898. Cleveland. TN 37320-3898. 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-121
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: BLANK-322

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-121
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: BLANK-322

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

WW Engineering & Science
A Summit Company

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 05/18/94
Date Received: 05/19/94
Date Reported: 06/01/94

Lab Sample ID: 13101-149
Sample Matrix: GR. WATER

PROJECT# 07029.00 KEYSTONE STEEL & WIRE

CUSTOMER SAMPLE ID: TRIP BLANK

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	05/25/94	JHS	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-149
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: TRIP BLANK

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 05/19/1994

Lab Sample ID: 13101-149
Matrix: GR. WATER

Date Reported: 06/01/1994

CUSTOMER SAMPLE ID: TRIP BLANK

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

STATEMENT OF DATA QUALIFICATIONS

CLIENT: WW ENGINEERING & SCIENCE

LAB REFERENCE #: 13101

The following analyses have been qualified for the reasons cited.

Sample ID: T-13B, T-6A, T-17, T-17 DUP, W-1D, T-10 W-3D, T-16, T-4A, T-4B, T-2A, T-1, W-2, W-4D **Parameter:** VOA

Explanation:

Detection limit elevated due to high hits of other target compounds.

NOTE: This document is included as part of the Laboratory Report for the above referenced submittal and must be retained as a permanent record thereof.

WW Engineering & Science
A Summit Company
5010 Stone Mill Road • Bloomington, Indiana 47408

Chain of Custody Record
Analytical Services

COC No.
№ 30514

WWES Proj. Mgr.: Bob Aten
Project Name: Keystone Steel & Wire
WWES Proj. No.: 07029.00
Sampler (Print):
Sampler Signature: ARV, JDB, MBL, RJF, JMW

For Lab Use Only
Rack/Tray No:
Lab Project #

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	No's Correspond to Bottle Packing List / Container Type	Analysis Required/Comments	Sample No.	Filtered Date/Time
5/17/94	3:05pm	WTR		X	T-5B (10)	2		VOA		
5/17/94	4:15pm			X	T-11A (11)					
5/17/94	4:00pm			X	T-6A (12)					
5/17/94	1:50pm			X	T-19C (13)					
5/18/94	1:35pm			X	T-17 (14)					
5/18/94	1:35pm			X	T-17Dup (15)					
5/18/94	2:15pm			X	T-18 (16)					
5/18/94	3:00pm			X	Blank-218 (17)			Received on ice 5.8°		
5/18/94	2:10pm			X	Blank-206 (18)					

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
A. Rebecca Vehologe	5/18/94	Custody Seal	Pam Waddle	5/19/94 9:22 am		

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

0025

ESL/Charts/Chain of Custody

WW Engineering & Science
A Summit Company
12649 Richfield Court • Livonia, Michigan 48150 • (313) 462-3900

Chain of Custody Record
Analytical Services

DE 00431

WWES Proj. Mgr.	Project Name	Sampler (Print)	Sampler Signature
Bob Aten	Keystone Steel & Wire		ARV, JDB, JMW, RJF, MBL
WWES Proj. No. 07029.00			

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	Container Type (No's Correspond to Bottle Packing List)	Analysis Required/Comments	For Lab Use Only: Sample No.	Filtered Date/Time
5/18/94	3:05pm	WTR		X	T-22A (19)	2		VOA		
5/18/94	3:20pm			X	T-22B (20)					
5/18/94	3:30pm			X	Blank-322 (21)					
5/18/94	5:10pm			X	T-23 (22)					
5/18/94	4:43pm			X	W-1D (23)					
5/18/94	4:30pm			X	T-10 (24)					
5/18/94	4:25pm			X	T-25B (25)					
5/18/94	3:55pm			X	T-25A (26)			Received on ice 5.8°		
5/18/94	4:55pm			X	W-3D (27)					

For Lab Use Only: Rack/Tray No.: Lab Project #:

Relinquished By:	Date/Time	Received By:	Received for Lab By:	Date/Time	Logged in By:	Date/Time
A. Rebecca Velasquez	5/18/94	Custody Seal	Ron Waddell	5/19/94 9:22 AM		

Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

SL/Charts/Chain of Custody

WW Engineering & Science
A Summit Company
5010 Stone Mill Road • Bloomington, Indiana 47408

Chain of Custody Record
Analytical Services

COC No: № 30558

WWES Proj. Mgr.	Project Name	For Lab Use Only
Bob Aten	Keystone Steel & Wire	Rack/Tray No:
WWES Proj. No.: 07029.00	Sampler (Print):	Lab Project #:
	Sampler Signature: ARV, JDB, JMW, MBL, RJF	

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	Container Type	Analysis Required/Comments	Sample No.	Filtered Date/Time
5-17-94	3:50pm	WTR		X	T-6B (28)	2		VOA		
5/18/94	9:25am	↓		X	T-16 (29)	↓		↓		
5/18/94	9:50am			X	T-7B Dup (30)					
5/18/94	9:50am			X	T-7B (31)					
5/18/94	11:20am			X	T-3 Dup (32)					
5/18/94	11:20am			X	T-3 (33)					
5/17/94	2:45pm			X	T-5A (34)					
5/17/94	4:00pm			X	T-6C (35)			Received on ice 5.8°C		
5/17/94	4:45pm	↓		X	T-11B (36)	↓		↓		

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
A. Rebecca Verheage	5/18/94	Custody Seal	Ron Waddle	5/19/94 9:22am		

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

ESL/Charts/Chain of Custody

WW Engineering & Science
A Summit Company
5010 Stone Mill Road • Bloomington, Indiana 47408

Chain of Custody Record
Analytical Services

COC No.
№ 30034

WWES Proj. Mgr.	Project Name		
Bob Aten	Keystone Steel & Wire		
WWES Proj. No.	Sampler (Print)		
07029.00	Sampler Signature: ARV, JDB, MBL, RJF, JMW		

For Lab Use Only
Rack/Tray No.
Lab Project #

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	Container Type	Analysis Required/Comments	Sample No.	Filtered Date/Time
5/18/94	3:15pm	WTR		X	Blank-202 (37)	2		VOA		
5/18/94	9:30AM			X	T-7A (39)					
5/18/94	8:20AM			X	T-4A (39)					
5/18/94	10:50AM			X	T-14 (40)					
5/18/94	8:45AM			X	T-4B (41)					
5/18/94	10:30AM			X	T-8 (42)					
5/18/94	8:25AM			X	T-2A (43)					
5/18/94	9:20AM			X	T-1 (44)			Received on ice 5.8°C		
5/18/94	8:35			X	T-2B (45)					

No's Correspond to Bottle Packing List

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
A. Rebecca Vehalage	5/18/94	Custody Seal	Pam Wadell	5/19/94 9:22am		

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

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ESL/Charts/Chain of Custody

WW Engineering & Science
A Summit Company
12649 Richfield Court • Livonia, Michigan 48150 • (313) 462-3900

Chain of Custody Record
Analytical Services

DE - 00432

WWES Proj. Mgr.	Project Name
BOB ATEN	KEYSTONE
WWES Proj. No.	Sampler (Print)
07028.00	Sampler Signature: ARV, JOB, MBL, RJF, JMW

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	Container Type (No's Correspond to Bottle Packing List)	Analysis Required/Comments	For Lab Use Only: Sample No.	Filtered Date/Time
5/18/94	5:10pm	WTR		X	W-2 (48)	2		VOA		
5/18/94	—	↓		X	Trip Blank (49)	1		↓		
5/18/94	5:55			X	T-15 (47)	2				
5/18/94	5:50			X	W-4D (48)	2				
								Received on ice 5.8°C		

Rack/Tray No:
Lab Project #

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
A. Rebecca Vitolage	5/18/94	Custody Seal	Pat Waddle	5/19/94 9:22 AM		

Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

0025

:L/Charts/Chain of Custody

WW Engineering & Science
A Summit Company
5010 Stone Mill Road • Bloomington, Indiana 47408

Chain of Custody Record
Analytical Services

COC No.
№ 30035

WWES Proj. Mgr.: Bob Aten
Project Name: Keystone Steel & Wire
WWES Proj. No.: 07029.00
Sampler (Print):
Sampler Signature: ARV, JDB, MBL, RJF, JMW

No's Correspond to Bottle Packing List

For Lab Use Only
Rack/Tray No:
Lab Project #

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	Container Type	Analysis Required/Comments	Sample No.	Filtered Date/Time
5/18/94	9:50 AM	WTR		X	T-20 (1)	2		VOA		
5/18/94	10:50 AM			X	T-13B (2)					
5/18/94	9:45 AM			X	T-21 (3)					
5/18/94	11:00 AM			X	T-9 (4)					
5/17/94	3:50 pm			X	T-6BDup (5)					
5/17/94	1:30 pm			X	T-19A (6)					
5/17/94	4:30 pm			X	T-11C (7)					
5/17/94	1:40 pm			X	T-19B (8)			Received on ice 5.8°C		
5/17/94	2:50 pm			X	T-5C (9)					

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
A. Rebecca Vehalage	5/18/94	Custody Seal	Pat Waddle	5/19/94 9:22 am		

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

ESL/Charts/Chain of Custody

U S E P A

RECEIVED
WMD RECORD CENTER
AUG 11 1994

QUARTERLY GROUND WATER REMEDIATION PROGRAM TECHNICAL MEMORANDUM FOR FEBRUARY 1994

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

MAY 1994

WW Engineering & Science
A Summit Company

QUARTERLY GROUND WATER REMEDIATION PROGRAM TECHNICAL MEMORANDUM FOR FEBRUARY 1994

KEYSTONE STEEL & WIRE COMPANY
BARTONVILLE, ILLINOIS

MAY 1994

TECHNICAL MEMORANDUM

DATE: May 17, 1994

TO: Ken Lovett
Illinois Environmental Protection Agency
Permit Section
Division of Land Pollution Control
2200 Churchill Road
Springfield, IL 62794-9276

RECEIVED
MAY 20 1994
PERMIT SECTION

FROM: Robert E. Aten
WW Engineering & Science
5010 Stone Mill Road
Bloomington, IN 47408

RE: Keystone Steel & Wire Company
Quarterly Ground Water Remediation Program Technical Memorandum,
February 1994 Sampling Event

This memorandum includes all February 1994 quarterly ground water analytical data (Table 1) for the Keystone TCE ground water remediation program, and the ground water and surface water elevation data for January, February and March, 1994 (Table 2). Piezometric surface maps for the February 21 and March 16, 1994 ground water measurements are shown on Figures 1 and 2, and concentration maps for TCE, 1,1,1-trichloroethane and total volatiles are presented on Figures 3, 4 and 5, respectively. All sampling and analytical procedures were consistent with the sampling plan presented in the Keystone Ground Water Remediation Program report submitted June 15, 1992, and the Proposed Ground Water Management Zone request submitted July 16, 1993.

All analytical results were validated using SW 846 protocols and the data have been qualified accordingly on Table 1. A letter from the project chemist discussing data validation is included in the Appendix. Also included in the Appendix are the laboratory data

sheets documenting dates of analyses and analytical methods, and the chain of custody forms documenting date and time of sampling. A complete copy of the data validation package is retained in our office and at the analytical laboratory. Part or all of the QA/QC data will be provided upon request.

The piezometric surface maps (Figures 1 and 2) show substantial changes in ground water flow directions and ground water gradients as a result of ground water withdrawals from purge wells A through D. Combined flow from the four purge wells is approximately 600 gallons per minute, and the system has been in operation since January 25, 1994. Since startup there have been a few temporary shutdowns for minor modifications to the acid feed system and for maintenance of probes that were malfunctioning. The system was shutdown during the March water level measurement event and the affect of the temporary shutdown is shown on Figure 2. Although general ground water flow is still toward the purge wells, the water levels at the purge wells were recovering, as shown by the measurements at piezometers P-4, P-7, P-8, and P-9. Ground water flow within the contaminant plume is toward the four purge wells.

Ground water contaminant concentrations (Figures 3, 4, and 5) and the configuration of the contaminant plume are consistent (nearly identical) with that previously reported.

The February quarterly data represent the first sampling event after the startup of the air stripper remediation system. To establish a baseline, all of the historic ground water volatile organic data have been summarized on Table 3. Volatile organic analyses were first performed in February 1988 and quarterly analyses have been conducted since November 1989. Thus, an extensive historical data base has been established that can be used to evaluate the efficacy of the remediation system.

TABLE 1
GROUND WATER MONITORING RESULTS
GROUND WATER ASSESSMENT STUDY
FEBRUARY 22-23, 1994

INVESTIGATIVE WELLS

WELL NUMBER	W-1D	W-1D Dup	* W-2	W-3D	W-4D	T-1	T-2A	T-3	T-4A
Temperature, field (C)	10.5	10.5	7.5	7.0	10.5	9.0	9.5	9.0	13.0
pH, field	7.1	7.0	6.7	6.8	7.2	6.6	7.0	7.4	7.0
SpC (at 25 C)	1900	1800	1800	2700	1400	5000	1900	950	2300
VOLATILES (ug/L)									
1,1-Dichloroethane	<15	<15	810	14	<10	<25	<10	38	<10
1,1-Dichloroethylene	57	59	160	32	<10	<25	39	450	<10
1,2-Dichloroethylene (total)	21	21	<25	18	13	55	17	120	<10
Tetrachloroethylene	<15	<15	<25	<10	<10	<25	<10	<25	<10
1,1,1-Trichloroethane	44	43	28	91	<10	<25	24	980	<10
Trichloroethylene	470	460	<25	380	300	19	320	470	230

INVESTIGATIVE WELLS

WELL NUMBER	T-4B	T-6A	T-6B	T-7B	T-7B Dup	T-9	T-10	# T-11B	T-11C
Temperature, field (C)	12.0	12.5	11.0	14.0	13.0	11.5	15.0	12.5	13.0
pH, field	7.0	6.4	7.1	7.1	7.1	7.1	6.3	6.8	7.0
SpC (at 25 C)	2000	1400	1600	1500	1500	1200	6700	2700	2100
VOLATILES (ug/L)									
1,1-Dichloroethane	15	49	<5	<50	<50	15	<50	<5	<5
1,1-Dichloroethylene	66	100	<5	<50	<50	88	<50	<5	<5
1,2-Dichloroethylene (total)	16	<15	<5	120	110	<5	140	7	<5
Tetrachloroethylene	<10	<15	<5	<50	<50	79	<50	<5	<5
1,1,1-Trichloroethane	<10	440	11	<50	<50	92	<50	<5	<5
Trichloroethylene	360	<15	75	1800	1500	71	1100	46	35

* Chloroethane detected at 54 ug/L in sample W-2.

A less than sign (<) indicates that the compound was nondetectable at the specified detection limit.

\# Chloromethane detected at 24 ug/L in sample T-11B.

TABLE 1
GROUND WATER MONITORING RESULTS
GROUND WATER ASSESSMENT STUDY
FEBRUARY 22-23, 1994

	INVESTIGATIVE WELLS						
WELL NUMBER	T-13B	T-16	T-17	T-17 Rep	T-19C	T-20	T-23
Temperature, field (C)	9.5	10.0	10.0	10.0	10.0	14.0	4.5
pH, field	6.4	6.8	7.4	7.4	7.0	6.7	7.1
SpC (at 25 C)	13,000	2700	990	1000	2600	3700	3000
VOLATILES (ug/L)							
1,1-Dichloroethane	<5	<10	100	<100	<5	<5	<5
1,1-Dichloroethylene	<5	<10	630	670	<5	<5	<5
1,2-Dichloroethylene (total)	150	16	140	130	<5	<5	<5
Tetrachloroethylene	<5	<10	290	310	<5	<5	<5
1,1,1-Trichloroethane	<5	<10	2200	2000	<5	<5	<5
Trichloroethylene	65	320	400	350	13	10	<5

	UPGRADIENT WELL	PURGE WELLS			
WELL NUMBER	T-15	PW-A	PW-B	PW-C	PW-D
Temperature, field (C)	4.0	NA	NA	NA	NA
pH, field	7.3	NA	NA	NA	NA
SpC (at 25 C)	1100	NA	NA	NA	NA
VOLATILES (ug/L)					
1,1-Dichloroethane	<5	<50	<25	<5	<5
1,1-Dichloroethylene	<5	77	35	<5	<5
1,2-Dichloroethylene (total)	<5	185	<25	<5	<5
Tetrachloroethylene	<5	<50	<25	<5	<5
1,1,1-Trichloroethane	<5	260	<25	<5	<5
Trichloroethylene	<5	1500	690	110	87

NA - not analyzed

A less than sign (<) indicates that the compound was nondetectable at the specified detection limit.

TABLE 1
GROUND WATER MONITORING RESULTS
GROUND WATER ASSESSMENT STUDY
FEBRUARY 22-23, 1994

	BLANKS			TRIP BLANK
WELL NUMBER	Blank 130	Blank 210	Blank 218	Trip Blank
Temperature, field (C)	NA	NA	NA	NA
pH, field	NA	NA	NA	NA
SpC (at 25 C)	NA	NA	NA	NA
VOLATILES (ug/L)				
1,1-Dichloroethane	<5	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5	<5
1,2-Dichloroethylene (total)	<5	<5	<5	<5
Tetrachloroethylene	<5	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5	<5
Trichloroethylene	<5	<5	<5	<5

NA - not analyzed

A less than sign (<) indicates that the compound was nondetectable at the specified detection limit.

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			January 28, 1994	
T-1	453.57	49.23	11.42	442.15
T-2A	450.11	44.26	8.30	441.81
T-2B	450.25	66.90	8.65	441.60
T-3	450.57	60.70	10.71	439.86
T-4A	449.42	27.24	8.20	441.22
T-4B	449.44	79.30	7.73	441.71
T-5A	448.04	33.16	5.87	442.17
T-5B	448.27	66.08	6.63	441.64
T-5C	448.21	82.84	5.96	442.25
T-6A	451.67	19.63	8.70	442.97
T-6B	451.72	34.94	9.70	442.02
T-6C	452.00	55.16	10.37	441.63
T-7A	448.55	18.18	6.63	441.92
T-7B	448.56	81.75	6.70	441.86
T-8	451.00	31.61	9.99	441.01
T-9	459.85	35.47	18.80	441.05
T-10	456.60	40.62	16.24	440.36
T-11A	451.12	40.98	8.80	442.32
T-11B	451.39	82.66	9.55	441.84
T-11C	451.23	99.21	9.32	441.91
T-13A	464.25	27.64	19.35	444.90
T-13B	464.44	32.03	19.50	444.94
T-14	452.47	102.05	10.67	441.80
T-15	454.70	20.25	NC	
T-16	450.51	41.96	NC	
T-17	461.62	41.90	20.51	441.11
T-18	462.92	32.02	16.80	446.12
T-19A	448.74	11.84	5.82	442.92
T-19B	449.45	39.83	6.96	442.49
T-19C	448.46	70.43	6.02	442.44
T-20	455.97	47.44	14.02	441.95
T-21	468.82	17.70	13.00	455.82
T-22A	447.97	68.56	NA	
T-22B	447.37	119.29	NA	
T-23	451.70	87.59	9.37	442.33
T-25A	452.65	39.58	10.07	442.58
T-25B	453.65	94.23	10.15	443.50
P-1A	450.86	34.80	8.40	442.46
P-1B	450.75	71.26	8.37	442.38

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			January 28, 1994	
P-2	459.71	92.43	17.93	441.78
P-3	447.27	39.37	5.70	441.57
P-4	447.23	68.41	5.97	441.26
P-5	447.11	69.97	5.35	441.76
P-6	446.90	67.14	NC	
P-7	450.72		8.51	442.21
P-8	450.80		9.08	441.72
P-9	450.38		7.97	442.41
W-1	449.85	8.96	6.31	443.54
W-1D	448.82	50.28	5.22	443.60
W-2	451.79	12.24	8.25	443.54
W-2D	451.33	50.04	9.57	441.76
W-3	447.14	9.17	4.10	443.04
W-3D	446.94	50.34	5.90	441.04
W-4	450.67	9.97	6.43	444.24
W-4D	449.44	50.29	8.85	440.59
W-5	464.02	22.26	18.20	445.82
W-5D	463.76	36.22	18.49	445.27
W-6	461.38	10.06	7.95	453.43
W-7	459.21	14.51	4.65	454.56
W-8	455.01	16.66	9.49	445.52
W-9	449.78	14.85	6.20	443.58
W-10	451.33	14.74	8.35	442.98
W-11	450.15	14.87	6.00	444.15
W-12	460.38	21.04	13.00	447.38
W-13	459.62	24.62	11.67	447.95
W-14	460.75	20.77	8.48	452.27
W-15	451.80	12.35	NC	
W-16	451.77	12.11	5.55	446.22
W-17	452.73	12.13	4.73	448.00
W-18	451.08	12.26	4.48	446.60
AD-1	449.02	16.06	NC	
AD-2	447.90	13.16	NC	
AD-3	447.60	15.90	NC	
AD-4	447.93	13.23	NC	
AD-5	447.57	15.87	NC	
CL-1	450.13	19.20	4.67	445.46

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			January 28, 1994	
CL-2	450.10	20.11	7.52	442.58
CL-3	450.27	23.63	4.81	445.46
CL-4	450.56	23.29	4.97	445.59
CL-5	453.74	27.04	8.87	444.87

NA = Well not accessable
NC = Not collected

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			February 21, 1994	
T-1	453.57	49.23	12.26	441.31
T-2A	450.11	44.26	9.83	440.28
T-2B	450.25	66.90	11.88	438.37
T-3	450.57	60.70	10.90	439.67
T-4A	449.42	27.24	9.27	440.15
T-4B	449.44	79.30	9.30	440.14
T-5A	448.04	33.16	6.47	441.57
T-5B	448.27	66.08	7.52	440.75
T-5C	448.21	82.84	6.56	441.65
T-6A	451.67	19.63	7.00	444.67
T-6B	451.72	34.94	10.40	441.32
T-6C	452.00	55.16	11.17	440.83
T-7A	448.55	18.18	5.65	442.90
T-7B	448.56	81.75	8.78	439.78
T-8	451.00	31.61	9.84	441.16
T-9	459.85	35.47	19.26	440.59
T-10	456.60	40.62	16.70	439.90
T-11A	451.12	40.98	8.85	442.27
T-11B	451.39	82.66	10.52	440.87
T-11C	451.23	99.21	9.75	441.48
T-13A	464.25	27.64	19.29	444.96
T-13B	464.44	32.03	19.39	445.05
T-14	452.47	102.05	11.53	440.94
T-15	454.70	20.25	6.47	448.23
T-16	450.51	41.96	9.08	441.43
T-17	461.62	41.90	20.43	441.19
T-18	462.92	32.02	16.60	446.32
T-19A	448.74	11.84	6.25	442.49
T-19B	449.45	39.83	7.75	441.70
T-19C	448.46	70.43	6.68	441.78
T-20	455.97	47.44	14.58	441.39
T-21	468.82	17.70	12.60	456.22
T-22A	447.97	68.56	3.85	444.12
T-22B	447.37	119.29	3.99	443.38
T-23	451.70	87.59	10.05	441.65
T-25A	452.65	39.58	10.60	442.05
T-25B	453.65	94.23	10.89	442.76
P-1A	450.86	34.80	8.74	442.12
P-1B	450.75	71.26	8.98	441.77

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			February 21, 1994	
P-2	459.71	92.43	17.30	442.41
P-3	447.27	39.37	5.95	441.32
P-4	447.23	68.41	8.64	438.59
P-5	447.11	69.97	7.89	439.22
P-6	446.90	67.14	7.42	439.48
P-7	450.72		9.30	441.42
P-8	450.80		18.06	432.74
P-9	450.38		8.75	441.63
W-1	449.85	8.96	5.86	443.99
W-1D	448.82	50.28	8.72	440.10
W-2	451.79	12.24	8.15	443.64
W-2D	451.33	50.04	11.10	440.23
W-3	447.14	9.17	3.08	444.06
W-3D	446.94	50.34	7.05	439.89
W-4	450.67	9.97	4.72	445.95
W-4D	449.44	50.29	9.04	440.40
W-5	464.02	22.26	17.89	446.13
W-5D	463.76	36.22	17.25	446.51
W-6	461.38	10.06	7.73	453.65
W-7	459.21	14.51	3.87	455.34
W-8	455.01	16.66	8.60	446.41
W-9	449.78	14.85	5.89	443.89
W-10	451.33	14.74	7.65	443.68
W-11	450.15	14.87	4.87	445.28
W-12	460.38	21.04	12.78	447.60
W-13	459.62	24.62	11.61	448.01
W-14	460.75	20.77	8.18	452.57
W-15	451.80	12.35	4.09	447.71
W-16	451.77	12.11	3.83	447.94
W-17	452.73	12.13	3.27	449.46
W-18	451.08	12.26	3.01	448.07
AD-1	449.02	16.06	NC	
AD-2	447.90	13.16	NC	
AD-3	447.60	15.90	NC	
AD-4	447.93	13.23	NC	
AD-5	447.57	15.87	NC	
CL-1	450.13	19.20	4.75	445.38

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			February 21, 1994	
CL-2	450.10	20.11	5.93	444.17
CL-3	450.27	23.63	4.91	445.36
CL-4	450.56	23.29	5.10	445.46
CL-5	453.74	27.04	9.02	444.72

NA = Well not accessable
NC = Not collected

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			March 16, 1994	
T-1	453.57	49.23	11.63	441.94
T-2A	450.11	44.26	9.03	441.08
T-2B	450.25	66.90	11.00	439.25
T-3	450.57	60.70	9.05	441.52
T-4A	449.42	27.24	8.32	441.10
T-4B	449.44	79.30	8.46	440.98
T-5A	448.04	33.16	5.90	442.14
T-5B	448.27	66.08	6.45	441.82
T-5C	448.21	82.84	6.10	442.11
T-6A	451.67	19.63	7.62	444.05
T-6B	451.72	34.94	9.75	441.97
T-6C	452.00	55.16	10.40	441.60
T-7A	448.55	18.18	7.00	441.55
T-7B	448.56	81.75	7.84	440.72
T-8	451.00	31.61	9.37	441.63
T-9	459.85	35.47	18.48	441.37
T-10	456.60	40.62	15.73	440.87
T-11A	451.12	40.98	8.43	442.69
T-11B	451.39	82.66	9.75	441.64
T-11C	451.23	99.21	9.02	442.21
T-13A	464.25	27.64	19.15	445.10
T-13B	464.44	32.03	19.25	445.19
T-14	452.47	102.05	10.70	441.77
T-15	454.70	20.25	6.90	447.80
T-16	450.51	41.96	8.50	442.01
T-17	461.62	41.90	20.21	441.41
T-18	462.92	32.02	16.60	446.32
T-19A	448.74	11.84	6.08	442.66
T-19B	449.45	39.83	7.27	442.18
T-19C	448.46	70.43	6.38	442.08
T-20	455.97	47.44	13.97	442.00
T-21	468.82	17.70	13.00	455.82
T-22A	447.97	68.56	3.45	444.52
T-22B	447.37	119.29	3.63	443.74
T-23	451.70	87.59	10.30	441.40
T-25A	452.65	39.58	10.81	441.84
T-25B	453.65	94.23	11.10	442.55
P-1A	450.86	34.80	8.30	442.56
P-1B	450.75	71.26	8.18	442.57

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			March 16, 1994	
P-2	459.71	92.43	16.53	443.18
P-3	447.27	39.37	5.07	442.20
P-4	447.23	68.41	6.98	440.25
P-5	447.11	69.97	6.85	440.26
P-6	446.90	67.14	6.40	440.50
P-7	450.72		10.20	440.52
P-8	450.80		8.70	442.10
P-9	450.38		8.28	442.10
W-1	449.85	8.96	6.23	443.62
W-1D	448.82	50.28	7.83	440.99
W-2	451.79	12.24	8.00	443.79
W-2D	451.33	50.04	10.32	441.01
W-3	447.14	9.17	2.76	444.38
W-3D	446.94	50.34	5.40	441.54
W-4	450.67	9.97	5.50	445.17
W-4D	449.44	50.29	8.21	441.23
W-5	464.02	22.26	18.45	445.57
W-5D	463.76	36.22	18.64	445.12
W-6	461.38	10.06	8.05	453.33
W-7	459.21	14.51	4.42	454.79
W-8	455.01	16.66	8.88	446.13
W-9	449.78	14.85	6.27	443.51
W-10	451.33	14.74	7.92	443.41
W-11	450.15	14.87	5.61	444.54
W-12	460.38	21.04	13.22	447.16
W-13	459.62	24.62	12.23	447.39
W-14	460.75	20.77	NC	
W-15	451.80	12.35	4.82	446.98
W-16	451.77	12.11	4.65	447.12
W-17	452.73	12.13	4.08	448.65
W-18	451.08	12.26	3.93	447.15
AD-1	449.02	16.06	NC	
AD-2	447.90	13.16	NC	
AD-3	447.60	15.90	NC	
AD-4	447.93	13.23	NC	
AD-5	447.57	15.87	NC	
CL-1	450.13	19.20	5.00	445.13

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

WELL NUMBER	T.O.C. ELEVATION (feet)	WELL DEPTH (feet)	DEPTH TO WATER BELOW T.O.C. (feet)	ELEVATION OF WATER (feet)
DATE:			March 16, 1994	
CL-2	450.10	20.11	5.60	444.50
CL-3	450.27	23.63	5.17	445.10
CL-4	450.56	23.29	5.30	445.26
CL-5	453.74	27.04	9.29	444.45

NA = Well not accessable
NC = Not collected

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

TBM LOCATION	TBM ELEVATION (feet)	DEPTH TO WATER BELOW TBM (feet)	ELEVATION OF WATER (feet)
DATE:		January 28, 1994	
TBM-1E	449.27	>3.79	<445.48
TBM-1W	447.89	>4.75	<443.14
TBM-3N	448.61	>3.85	<444.76
TBM-3S	449.02	>3.88	<445.14
TBM-4W	449.19	2.05	447.14
TBM-4S	445.68	M	
TBM-6W	459.60	4.25	455.35
TBM-9	446.88	3.13	443.75
TBM-10	449.98	3.05	446.93
TBM-10E	450.61	2.06	448.55
TBM-11	447.22	1.00	446.22
TBM-12	443.44	2.55	440.89
Illinois River Peoria Lock & Dam			
upper pool			440.02
lower pool			436.10

1. Illinois River data were obtained from the Army Corps of Engineers, Rock Island District.

2. M = missed measurement

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

TBM LOCATION	TBM ELEVATION (feet)	DEPTH TO WATER BELOW TBM (feet)	ELEVATION OF WATER (feet)
DATE:		February 22, 1994	
TBM-1E	449.27	>3.80	<445.47
TBM-1W	447.89	>3.30	<444.09
TBM-3N	448.61	>3.70	<444.91
TBM-3S	449.02	>3.85	<445.17
TBM-4W	449.19	>4.35	<444.84
TBM-4S	445.68	2.10	443.58
TBM-6W	459.60	4.80	454.80
TBM-9	446.88	2.90	443.98
TBM-10	449.98	2.90	447.08
TBM-10E	450.61	M	
TBM-11	447.22	1.00	446.22
TBM-12	443.44	2.45	440.99
Illinois River Peoria Lock & Dam			
upper pool			444.96
lower pool			444.86

1. Illinois River data were obtained from the Army Corps of Engineers, Rock Island District.

2. M = missed measurement.

TABLE 2
KEYSTONE STEEL & WIRE COMPANY
GROUND WATER AND SURFACE WATER DATA

TBM LOCATION	TBM ELEVATION (feet)	DEPTH TO WATER BELOW TBM (feet)	ELEVATION OF WATER (feet)
DATE:		March 16, 1994	
TBM-1E	449.27	>3.80	<445.47
TBM-1W	447.89	>3.30	<444.09
TBM-3N	448.61	3.37	445.24
TBM-3S	449.02	3.42	445.60
TBM-4W	449.19	>4.35	<444.84
TBM-4S	445.68	>2.50	<443.18
TBM-6W	459.60	4.75	454.85
TBM-9	446.88	2.76	444.12
TBM-10	449.98	M	
TBM-10E	450.61	2.80	447.81
TBM-11	447.22	1.00	446.22
TBM-12	443.44	2.40	441.04
Illinois River Peoria Lock & Dam			
upper pool			444.77
lower pool			444.67

1. Illinois River data were obtained from the Army Corps of Engineers, Rock Island District.

2. M = missed measurement.

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-1	11/28/89	WWES	<10	<5.0	<5.0	29	<5.0	<5.0	<5.0	440	<10	
T-1	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	400	<10	
T-1	05/22/90	WWES	<50	<25	<25	45	<25	<25	<25	630	<50	
T-1	08/29/90	WWES	<50	<25	<25	46	<25	<25	<25	590	<50	
T-1	11/28/90	WWES	<50	<25	<25	61	<25	<25	<25	710	<50	
T-1	02/27/91	WWES	<50	<25	<25	92*	<25	<25	<25	810	<50	
T-1	02/27/91	WWES	<50	<25	<25	98*	<25	<25	<25	870	<50	Duplicate
T-1	05/29/91	WWES	<50	<25	<25	<25	<25	<25	<25	800	<50	(1)
T-1	08/28/91	WWES	<50	<25	<25	50	<25	<25	<25	630	<50	
T-1	11/21/91	WWES	<50	<25	<25	50	<25	<25	<25	780	<50	
T-1	02/27/92	WWES	<50	<25	<25	54	<25	<25	<25	910	<50	
T-1	05/28/92	WWES	<50	<25	<25	64	<25	<25	<25	830	<50	
T-1	08/26/92	WWES	<50	<25	<25	45	<25	<25	<25	630	<50	
T-1	11/17/92	WWES	<50	<25	<25	40	<25	<25	<25	540	<50	
T-1	02/25/93	WWES	<50	<25	<25	60	78	<25	<25	900	<50	
T-1	05/26/93	WWES	<30	<15	<15	74	<15	<15	<15	470	<30	
T-1	08/24/93	WWES	<84	<42	<42	64	<42	<42	<42	1000	<84	
T-1	11/17/93	WWES	<50	<25	<25	67	<25	<25	<25	860	<50	
T-2A	10/31/89	WWES	<10	8.0	6.0	14	<5.0	<2.0	15	180	<10	(3)
T-2A	11/27/89	WWES	<10	7.0	8.0	14	<5.0	<5.0	13	230	<10	
T-2A	02/26/90	WWES	<10	<5.0	<5.0	9.0	<5.0	<5.0	10	220	<10	
T-2A	02/26/90	WWES	<10	<5.0	<5.0	11	<50	<5.0	13	240	<10	Duplicate
T-2A	05/22/90	WWES	<10	<5.0	<5.0	13	<5.0	<5.0	15	210	<10	
T-2A	08/29/90	WWES	<20	<10	<10	13	<10	<10	<10	180	<20	
T-2A	11/27/90	WWES	<10	<5.0	<5.0	14	<5.0	<5.0	6.6	210*	<10	
T-2A	02/26/91	WWES	<10	<5.0	<5.0	16	<5.0	<5.0	5.0	230	<10	
T-2A	05/29/91	WWES	<20	<10	<10	<10	<10	<10	16	220	<20	
T-2A	08/27/91	WWES	<20	<10	<10	<10	<10	<10	<10	260	<20	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-2A	11/21/91	WWES	<20	<10	<10	<10	<10	<10	<10	210	<20	
T-2A	11/21/91	WWES	<20	<10	<10	<10	<10	<10	<10	200	<20	Duplicate
T-2A	02/26/92	WWES	<25	<12.5	<12.5	14	<12.5	<12.5	<12.5	230	<25	
T-2A	05/27/92	WWES	<20	<10	12	14	<10	<10	<10	200	<20	
T-2A	08/27/92	WWES	<20	<10	20	20	<10	<10	10	240	<20	
T-2A	11/17/92	WWES	<10	7.0	14	12	<5.0	<5.0	9.0	170	<10	
T-2A	02/25/93	WWES	<10	6.0	17	14	<5.0	<5.0	11	200*	<10	
T-2A	05/25/93	WWES	<10	7.0	19	13	<5.0	<5.0	12	170*	<10	
T-2A	08/24/93	WWES	<18	<9.0	18	12	<9.0	<9.0	13	220	<18	
T-2A	11/16/93	WWES	<10	5.0	16	12	<5.0	<5.0	10	180	<10	
T-2B	02/26/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-2B	05/22/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-2B	08/29/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-2B	11/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-2B	02/26/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-2B	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-2B	08/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-2B	11/21/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-2B	05/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-2B	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-2B	05/25/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-2B	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-3	11/28/89	WWES	<10	<5.0	480	130	<5.0	6.0	3200	1200	<10	
T-3	02/27/90	WWES	<10	<5.0	210	98	<5.0	12	1600	1400	<10	
T-3	02/27/90	WWES	<100	<50	200	64	<50	<50	1800	1100	<100	Duplicate
T-3	05/23/90	WWES	<20	<10	180	130	<10	20	2800	1400	<20	
T-3	05/23/90	WWES	<50	<25	170	120	<25	<25	2600	1100	<50	Duplicate

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-3	08/29/90	WWES	<100	<50	120	77	<50	<50	1800	990	<100	
T-3	12/06/90	WWES	<200	<100	<100	<100	<100	<100	1300	830	<200	
T-3	12/06/90	WWES	<200	<100	<100	<100	<100	<100	1300	830	<200	Duplicate
T-3	02/26/91	WWES	<200	<100	<100	<100	<100	<100	1600	1000	<200	
T-3	05/31/91	WWES	<100	<50	160	74	<50	<50	1600	1000	<100	
T-3	05/31/91	WWES	<100	<50	150	73	<50	<50	1600	990	<100	Duplicate
T-3	08/27/91	WWES	<100	<50	<50	<50	120	<50	790	730	<100	
T-3	11/20/91	WWES	<100	<50	<50	<50	[70]	<50	640	460	<100	
T-3	02/26/92	WWES	<50	<25	28	33	<25	<25	340	380	<50	
T-3	05/27/92	WWES	<100	<50	<50	69	<50	<50	200	300	<100	
T-3	08/27/92	WWES	<20	21	130	210	<10	10	380	400	<20	
T-3	11/17/92	WWES	<40	28	280	160	<20	<20	530	360	<40	
T-3	02/24/93	WWES	<50	38	380	140	<25	<25	800	390	<50	
T-3	05/26/93	WWES	<50	33	300	140	<25	<25	740	400	<50	
T-3	08/24/93	WWES	<100	<50	450	140	<50	<50	1200	480	<100	(5)
T-3	11/16/93	WWES	<50	34	370	120	<25	<25	650	350	<50	
T-4A	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	340	<10	
T-4A	05/22/90	WWES	<20	<10	<10	<10	<10	<10	<10	440	<20	
T-4A	08/28/90	WWES	<20	<10	<10	<10	<10	<10	<10	290	<20	
T-4A	11/20/90	WWES	<20	<10	<10	<10	<10	<10	<10	440	<50	
T-4A	02/26/91	WWES	<10	<5.0	<5.0	5.8	<5.0	<5.0	<5.0	280	<10	
T-4A	05/29/91	WWES	<20	<10	<10	<10	<10	<10	<10	270	<20	
T-4A	08/28/91	WWES	<20	<10	<10	<10	<10	<10	<10	210	<20	
T-4A	11/20/91	WWES	<20	<10	<10	<10	<10	<10	<10	230	<20	
T-4A	02/26/92	WWES	<10	<5.0	<5.0	5.0	<5.0	<5.0	<5.0	250	<10	
T-4A	05/27/92	WWES	<20	<10	<10	<10	<10	<10	<10	200	<20	
T-4A	08/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	190	<10	
T-4A	11/18/92	WWES	<20	<10	<10	<10	<10	<10	<10	190	<20	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-4A	02/24/93	WWES	<20	<10	<10	<10	<10	<10	<10	190	<20	
T-4A	05/26/93	WWES	<20	<10	<10	<10	<10	<10	<10	170	<20	
T-4A	08/24/93	WWES	<18	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	210	<18	
T-4A	11/16/93	WWES	<20	<10	<10	<10	<10	<10	<10	210	<20	
T-4B	02/27/90	WWES	<10	<5.0	<5.0	12	<5.0	<5.0	<5.0	150	<10	
T-4B	02/27/90	WWES	<10	<5.0	<5.0	12	<5.0	<5.0	<5.0	190	<10	Duplicate
T-4B	05/22/90	WWES	<10	6.1	<5.0	14	<5.0	<5.0	<5.0	170	<10	
T-4B	05/22/90	WWES	<10	6.2	<5.0	12	<5.0	<5.0	<5.0	170	<10	Duplicate
T-4B	08/28/90	WWES	<10	<5.0	<5.0	9.0	<5.0	<5.0	<5.0	140	<10	
T-4B	08/28/90	WWES	<10	5.0	<5.0	10	<5.0	<5.0	<5.0	150	<10	Duplicate
T-4B	11/28/90	WWES	<20	<10	<10	<10	<10	<10	<10	66	<20	
T-4B	02/26/91	WWES	<10	<5.0	<5.0	8.4	<5.0	<5.0	<5.0	160	<10	
T-4B	05/29/91	WWES	<10	<5.0	<5.0	6.2	<5.0	<5.0	<5.0	130	<10	
T-4B	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	130	<10	
T-4B	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	110	<10	Duplicate
T-4B	11/20/91	WWES	<10	<5.0	<5.0	6.0	<5.0	<5.0	<5.0	200	<10	
T-4B	02/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	250	<10	
T-4B	05/27/92	WWES	<20	<10	<10	<10	<10	<10	<10	310	<20	
T-4B	08/27/92	WWES	<20	17	<10	<10	<10	<10	<10	370	<20	
T-4B	11/18/92	WWES	<20	21	44	<10	<10	<10	<10	330	<20	
T-4B	02/24/93	WWES	<20	10	77	<10	<10	<10	<10	350	<20	
T-4B	05/26/93	WWES	<20	<10	54	<10	<10	<10	<10	280	<20	
T-4B	08/24/93	WWES	<20	<10	45	<10	<10	<10	<10	380	<20	
T-4B	11/16/93	WWES	<20	<10	35	<10	<10	<10	<10	330	<20	
T-5A	11/08/89	WWES	<10	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<10	
T-5A	11/28/89	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5A	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-5A	05/22/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5A	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5A	11/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5A	02/25/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5A	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5A	08/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5A	11/20/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5A	05/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5A	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5A	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5A	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5B	11/28/89	WWES	<10	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<10	
T-5B	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5B	05/22/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5B	05/22/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Duplicate
T-5B	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5B	11/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5B	02/25/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5B	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5B	08/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5B	11/20/91	WWES	<10	<5.0	<5.0	<5.0	[5.0]	<5.0	<5.0	<5.0	<10	
T-5B	5/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5B	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5B	5/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5B	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5C	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5C	05/22/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-5C	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5C	11/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5C	02/25/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5C	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5C	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Duplicate
T-5C	08/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5C	08/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Duplicate
T-5C	11/20/91	WWES	<10	<5.0	<5.0	<5.0	[6.0]	<5.0	<5.0	<5.0	<10	
T-5C	05/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5C	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-5C	05/26/93	WWES	<20	<10	<10	<10	<10	<10	<10	<10	<20	
T-5C	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-6A	11/08/89	WWES	<10	120	220	<2.0	<5.0	<2.0	1300	<2.0	<10	
T-6A	11/27/89	WWES	<10	110	250	<5.0	<5.0	<5.0	1400	<5.0	<10	
T-6A	02/26/90	WWES	<10	100	210	<5.0	<5.0	<5.0	1400	<5.0	<10	
T-6A	05/22/90	WWES	<100	92	160	<50	<5.0	<50	920	<50	<100	
T-6A	08/29/90	WWES	<100	73	140	<50	<50	<50	720	<50	<10	
T-6A	08/29/90	WWES	<100	78	150	<50	<50	<50	800	<50	<10	Duplicate
T-6A	11/27/90	WWES	<100	89	140	<50	<50	<50	850	<50	<100	
T-6A	11/27/90	WWES	<200	100	150	<100	<100	<100	1000	<100	<200	Duplicate
T-6A	02/26/91	WWES	<100	80	160	<50	<50	<50	830	<50	<100	
T-6A	02/26/91	WWES	<100	87	180	<50	<50	<50	870	<50	<100	Duplicate
T-6A	05/29/91	WWES	<100	86	170	<50	<50	<50	790	<50	<100	
T-6A	05/29/91	WWES	<100	83	170	<50	<50	<50	730	<50	<100	Duplicate
T-6A	08/28/91	WWES	<20	94	240	330	22	17	780	440	<20	
T-6A	11/21/91	WWES	<100	74	160	<50	<50	<50	770	<50	<100	
T-6A	02/26/92	WWES	<50	62	120	<25	<25	<25	730	<25	<50	
T-6A	05/27/92	WWES	<100	84	170	<50	<50	<50	760	<50	<100	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-6A	08/26/92	WWES	<100	60	100	<50	<50	<50	590	<50	<100	
T-6A	11/18/92	WWES	<100	65	130	<50	<50	<50	670	<50	<100	
T-6A	02/24/93	WWES	<50	71	140	<25	<25	<25	670	<25	<50	
T-6A	05/26/93	WWES	<50	58	100	<25	<25	<25	430	<25	<50	
T-6A	08/24/93	WWES	<50	53	110	<25	<25	<25	600	<25	<50	
T-6A	11/16/93	WWES	<50	46	89	<25	<25	<25	380	<25	<50	
T-6B	11/14/89	WWES	<10	4.0	<2.0	13	<5.0	<2.0	<2.0	82	<10	
T-6B	11/28/89	WWES	<10	<5.0	<5.0	15	<5.0	<5.0	<5.0	110	<10	
T-6B	02/26/90	WWES	<10	<5.0	<5.0	14	<5.0	<5.0	<5.0	120	<10	
T-6B	05/22/90	WWES	<10	<5.0	<5.0	17	<5.0	<5.0	<5.0	110	<10	
T-6B	08/29/90	WWES	<10	<5.0	<5.0	13	<5.0	<5.0	<5.0	100	<10	
T-6B	11/27/90	WWES	<10	<5.0	<5.0	10	<5.0	<5.0	<5.0	74	<10	
T-6B	02/26/91	WWES	<10	6.5	<5.0	11	<5.0	<5.0	5.6	110	<10	
T-6B	05/29/91	WWES	<10	<5.0	<5.0	33	<5.0	<5.0	5.8	78	<10	(2) (4)
T-6B	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	78	<10	
T-6B	11/21/91	WWES	<10	7.0	10	10	<5.0	<5.0	5.0	49	<10	
T-6B	02/26/92	WWES	<10	10	12	14	<5.0	<5.0	7.0	85	<10	
T-6B	05/27/92	WWES	<10	10	20	13	<5.0	<5.0	8.0	88	<10	
T-6B	08/26/92	WWES	<10	11	22	14	<5.0	<5.0	9.0	91	<10	
T-6B	11/18/92	WWES	<10	11	30	13	<5.0	<5.0	12	93	<10	
T-6B	02/24/93	WWES	<10	12	24	12	<5.0	<5.0	19	87	<10	
T-6B	05/26/93	WWES	<10	9.0	18	11	<5.0	<5.0	29	<5.0	<10	
T-6B	08/24/93	WWES	<10	9.0	16	9.0	<5.0	<5.0	21	79	<10	
T-6B	08/24/93	WWES	<10	10	16	8.0	<5.0	<5.0	22	84	<10	Duplicate
T-6B	11/16/93	WWES	<10	5.0	11	7.0	<5.0	<5.0	20	82	<10	
T-6C	02/26/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-6C	05/22/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-6C	08/29/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-6C	11/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-6C	02/26/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-6C	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-6C	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	10	<10	
T-6C	11/21/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-6C	05/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-6C	11/18/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-6C	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-6C	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	02/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	05/23/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	08/30/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	11/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	11/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Duplicate
T-7A	02/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	11/20/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	05/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	11/18/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7A	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-7B	02/28/90	WWES	<100	<50	<50	76	<50	<50	<50	2500	<100	
T-7B	02/28/90	WWES	<100	<50	<50	83	<50	<50	<50	2500	<100	Duplicate
T-7B	05/23/90	WWES	<200	<100	<100	<100	<100	<100	<100	2200	<200	
T-7B	05/23/90	WWES	<200	<100	<100	<100	<100	<100	<100	2600	<200	Duplicate

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-7B	08/30/90	WWES	<200	<100	<100	<100	<100	<100	<100	2200	<200	
T-7B	08/30/90	WWES	<200	<100	<100	<100	<100	<100	<100	2200	<200	Duplicate
T-7B	11/28/90	WWES	<200	<100	<100	<100	<100	<100	<100	1900	<200	
T-7B	02/27/91	WWES	<200	<100	<100	<100	<100	<100	<100	2200	<200	
T-7B	02/27/91	WWES	<200	<100	<100	<100	<100	<100	<100	2200	<200	Duplicate
T-7B	05/29/91	WWES	<200	<100	<100	<100	<100	<100	<100	2200	<200	(2)
T-7B	05/29/91	WWES	<200	<100	<100	<100	<100	<100	<100	2200	<200	Duplicate
T-7B	08/28/91	WWES	<200	<100	<100	<100	<100	<100	<100	2100	<200	
T-7B	11/20/91	WWES	<200	<100	<100	<100	<100	<100	<100	2200	<200	
T-7B	11/20/91	WWES	<200	<100	<100	<100	<100	<100	<100	1500	<200	Duplicate
T-7B	02/26/92	WWES	<200	<100	<100	<100	<100	<100	<100	1900	<200	
T-7B	02/26/92	WWES	<200	<100	<100	<100	<100	<100	<100	1800	<200	Duplicate
T-7B	05/27/92	WWES	<200	<100	<100	<100	<100	<100	<100	1400	<200	
T-7B	05/27/92	WWES	<200	<100	<100	<100	<100	<100	<100	220	<200	Duplicate
T-7B	08/27/92	WWES	<200	<100	<100	<100	<100	<100	<100	1900	<200	
T-7B	11/18/92	WWES	<200	<100	<100	<100	<100	<100	<100	2100	<200	
T-7B	02/25/93	WWES	<200	<100	<100	<100	<100	<100	<100	1800	<200	
T-7B	02/25/93	WWES	<200	<100	<100	<100	<100	<100	<100	2200	<200	Duplicate
T-7B	05/26/93	WWES	<180	<90	<90	<90	<90	<90	<90	1600	<180	
T-7B	08/24/93	WWES	<180	<90	<90	<90	<90	<90	<90	2200	<180	
T-7B	11/16/93	WWES	<180	<90	<90	<90	<90	<90	<90	1900	<180	
T-8	02/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-8	05/23/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-8	08/29/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-8	11/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-8	02/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-8	05/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-8	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-8	11/20/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-8	05/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-8	11/18/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-8	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-8	11/17/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-9	02/28/90	WWES	<100	<50	460	60	<50	230	2700	470	<100	
T-9	05/24/90	WWES	<50	<25	83	<25	<25	170	730	240	<50	
T-9	05/24/90	WWES	<50	<25	86	<25	<25	190	740	250	<50	Duplicate
T-9	08/29/90	WWES	<200	<100	280	160	<100	<100	1400	170	<200	
T-9	11/28/90	WWES	<50	<25	46	<25	<25	210	630	210	<50	
T-9	11/28/90	WWES	<50	<25	45	<25	<25	200	640	220	<50	Duplicate
T-9	02/27/91	WWES	<50	25	370	34*	<25	170	620	170	<50	
T-9	05/29/91	WWES	<200	<100	340	<100	<100	120	1200	160	<200	(2)
T-9	08/28/91	WWES	<50	<25	160	<25	<25	210	790	170	<50	
T-9	11/19/91	WWES	<200	<100	120	<100	<100	380	520	300	<200	
T-9	02/27/92	WWES	<25	<12.5	290	34	<12.5	<12.5	630	110	<25	
T-9	05/28/92	WWES	<200	<100	200	<100	<100	<100	930	170	<200	
T-9	08/26/92	WWES	<25	<10	46	<10	<12.5	130	330	180	<25	
T-9	11/19/92	WWES	<10	<5.0	49	12	<5.0	110	120	160	<10	
T-9	11/19/92	WWES	<10	<5.0	48	12	<5.0	110	130	140	<10	Duplicate
T-9	02/24/93	WWES	<10	13	110	14	<5.0	82	180	120	<10	
T-9	05/26/93	WWES	<10	12	96	<5.0	<5.0	56	170	40	<10	
T-9	05/26/93	WWES	<10	12	93	<5.0	<5.0	54	160	44	<10	Duplicate
T-9	08/24/93	WWES	<10	12	80	<5.0	<5.0	72	120	62	<10	
T-9	08/24/93	WWES	<10	12	69	5.0	<5.0	62	120	57	<10	Duplicate
T-9	11/17/93	WWES	<10	25	130	6.0	<5.0	46	69	36	<10	
T-10	02/28/90	WWES	<10	<5.0	<5.0	150	<5.0	14	<5.0	220	25	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-10	05/23/90	WWES	26	85	<10	390	<10	17	<10	250	59	
T-10	08/29/90	WWES	<20	<10	<10	310	<10	<10	<10	200	24	
T-10	11/28/90	WWES	<50	<25	<25	520	<25	<25	<25	340	<50	
T-10	02/27/91	WWES	<200	<100	<100	770*	<100	<100	<100	680	<200	
T-10	05/29/91	WWES	<50	<25	<25	320	<25	<25	<25	380	<50	
T-10	08/27/91	WWES	<25	<13	<13	330	<13	17	<13	440	<25	
T-10	11/20/91	WWES	<50	<25	<25	460	[30]	<25	<25	660	<50	
T-10	11/20/91	WWES	<50	<25	<25	610	[90]	<25	<25	610	<50	Duplicate
T-10	02/26/92	WWES	<25	<12.5	<12.5	480	<12.5	40	<12.5	720	<25	
T-10	02/26/92	WWES	<25	<12.5	<12.5	480	<12.5	41	<12.5	830	<25	Duplicate
T-10	05/28/92	WWES	<100	<50	<50	340	<50	<50	<50	730	<100	
T-10	05/28/92	WWES	<100	<50	<50	420	<50	<50	<50	950	<100	Duplicate
T-10	08/26/92	WWES	<100	<50	<50	460	<50	<50	<50	1200	<100	
T-10	08/26/92	WWES	<100	<50	<50	360	<50	<50	<50	990	<100	Duplicate
T-10	11/18/92	WWES	<50	<25	<25	290	<25	<25	<25	700	<50	
T-10	02/24/93	WWES	<50	<25	<25	220	<25	30	<25	980	<50	
T-10	05/26/93	WWES	<50	<25	<25	220	<25	<25	<25	730	<50	
T-10	08/25/93	WWES	<84	<42	<42	250	<42	<42	<42	1100	<84	
T-10	11/17/93	WWES	<50	<25	<25	180	<25	<25	<25	930	<50	
T-11A	02/26/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11A	05/22/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11A	08/30/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11A	11/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11A	02/26/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11A	05/30/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11A	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11A	11/20/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11A	5/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-11A	11/18/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11A	5/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11A	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11B	02/26/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11B	05/22/90	WWES	<10	<5.0	<5.0	17	<5.0	<5.0	<5.0	86	<10	
T-11B	08/30/90	WWES	<10	<5.0	<5.0	19	<5.0	<5.0	<5.0	140	<10	
T-11B	11/27/90	WWES	<50	<25	<25	30	<25	<25	<25	240	<50	
T-11B	02/26/91	WWES	<10	<5.0	<5.0	44	<5.0	<5.0	<5.0	200	<10	
T-11B	05/30/91	WWES	<50	<25	25	<25	<25	<25	<25	260	<50	
T-11B	08/28/91	WWES	<10	<5.0	<5.0	27	<5.0	<5.0	<5.0	260	<10	
T-11B	11/20/91	WWES	<10	<5.0	<5.0	60	<5.0	<5.0	<5.0	380	<10	
T-11B	02/26/92	WWES	<10	<5.0	<5.0	40	<5.0	<5.0	<5.0	290	<10	
T-11B	05/27/92	WWES	<10	<5.0	<5.0	19	<5.0	<5.0	<5.0	130	<10	
T-11B	05/27/92	WWES	<10	<5.0	<5.0	23	<5.0	<5.0	<5.0	140	<10	Duplicate
T-11B	08/26/92	WWES	<10	<5.0	<5.0	7.0	<5.0	<5.0	<5.0	62	<10	
T-11B	11/18/92	WWES	<10	<5.0	<5.0	7.0	<5.0	<5.0	<5.0	40	<10	
T-11B	02/24/93	WWES	<10	<5.0	<5.0	7.0	<5.0	<5.0	<5.0	33	<10	
T-11B	05/26/93	WWES	<10	<5.0	<5.0	7.0	<5.0	<5.0	<5.0	35*	<10	
T-11B	08/25/93	WWES	<10	5.0	<5.0	7.0	<5.0	<5.0	<5.0	35	<10	
T-11B	11/16/93	WWES	<10	<5.0	<5.0	8.0	<5.0	<5.0	<5.0	36	<10	
T-11C	02/26/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-11C	05/22/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	18	<10	
T-11C	08/30/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	21	<10	
T-11C	11/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	55	<10	
T-11C	02/26/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	31	<10	
T-11C	05/30/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	40	<10	
T-11C	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	29	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-11C	11/20/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	28	<10	
T-11C	02/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	41	<10	
T-11C	05/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	22	<10	
T-11C	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	23	<10	
T-11C	11/18/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	45	<10	
T-11C	11/18/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	38	<10	Duplicate
T-11C	02/24/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	39	<10	
T-11C	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	25	<10	
T-11C	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	54	<10	Duplicate
T-11C	08/25/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	33	<10	
T-11C	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	47	<10	
T-12	11/28/89	WWES	<10	<5.0	<5.0	17	<5.0	<5.0	<5.0	390	<10	
T-12	02/27/90	WWES	<10	<5.0	<5.0	14	<5.0	<5.0	<5.0	490	<10	
T-12	05/24/90	WWES	<50	<25	<25	<25	<25	<25	<25	340	<50	
T-12	11/28/90	WWES	<50	<25	<25	<25	<25	<25	<25	420	<50	
T-12	02/28/91	WWES	<50	<25	<25	<25	<25	<25	<25	450	<50	
T-12	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	70	<10	
T-13A	02/28/90	WWES	<10	<5.0	5.7	11	<5.0	7.0	<5.0	170	<10	
T-13A	05/23/90	WWES	<10	4.4	<5.0	4.4	<5.0	<5.0	<5.0	54	<10	
T-13A	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	14	<10	
T-13A	11/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	20	<10	
T-13A	02/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	19	27	<10	
T-13A	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.6	<10	
T-13A	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	30	<10	
T-13B	02/28/90	WWES	<10	<5.0	<5.0	280	<5.0	<5.0	<5.0	46	<10	
T-13B	05/23/90	WWES	<20	<10	<10	240	<10	<10	<10	37	<20	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-13B	08/28/90	WWES	<10	<5.0	<5.0	260	<5.0	<5.0	<5.0	36	<10	
T-13B	11/28/90	WWES	<20	<10	<10	290	<10	<10	<10	54	<20	
T-13B	02/27/91	WWES	<20	<10	<10	260*	<10	<10	36	52	<20	
T-13B	05/29/91	WWES	<100	310	<50	1300	<50	<50	<50	310	<100	
T-13B	08/28/91	WWES	<20	<10	<10	200	<10	<10	<10	64	<20	
T-13B	11/19/91	WWES	<25	<12.5	<12.5	250	<12.5	<12.5	<12.5	73	<25	
T-13B	02/26/92	WWES	<10	<5.0	<5.0	230	<5.0	<5.0	<5.0	57	<10	
T-13B	05/28/92	WWES	<20	<10	<10	170	<10	<10	<10	56	<20	
T-13B	08/26/92	WWES	<20	<10	<10	170	<10	<10	<10	47	<20	
T-13B	11/17/92	WWES	<20	<10	<10	160	<10	<10	<10	64	<20	
T-13B	02/24/93	WWES	<20	<10	<10	190	<10	<10	<10	60	<20	
T-13B	05/26/93	WWES	<20	<10	<10	170	<10	<10	<10	67	<20	
T-13B	08/24/93	WWES	<18	<9.0	<9.0	190	<9.0	<9.0	<9.0	72	<18	
T-13B	11/17/93	WWES	<18	<9.0	<9.0	150	<9.0	<9.0	<9.0	55	<18	
T-14	02/28/90	WWES	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	05/23/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	08/30/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	11/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	02/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	05/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	11/20/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	05/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	11/18/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	11/17/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-14	11/17/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Duplicate

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-15	02/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	05/23/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	08/29/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	11/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	02/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	05/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Duplicate
T-15	11/19/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	02/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	05/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	11/16/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	02/24/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	05/25/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	08/24/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-15	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-16	11/28/89	WWES	<10	11	<5.0	50	<5.0	<5.0	16	1200	<10	
T-16	02/28/90	WWES	<100	<50	<50	<50	<50	<50	<50	880	<100	
T-16	05/24/90	WWES	<100	<50	<50	<50	<50	<50	<50	880	<100	
T-16	08/29/90	WWES	<100	<50	<50	100	<50	<50	<50	1200	<100	
T-16	11/28/90	WWES	<100	<50	<50	52	<50	<50	<50	1100	<100	
T-16	02/28/91	WWES	<100	<50	<50	<50	<50	<50	<50	1000	<100	
T-16	02/28/91	WWES	<100	<50	<50	120*	<50	<50	<50	1900	<100	Duplicate
T-16	05/29/91	WWES	<100	<50	<50	84	<50	<50	<50	1400	<100	
T-16	08/28/91	WWES	<100	<50	92	<50	<50	<50	300	490	<100	
T-16	08/28/91	WWES	<100	<50	<50	<50	<50	<50	<50	610	<100	Duplicate
T-16	11/21/91	WWES	<100	<50	<50	<50	<50	<50	<50	850	<100	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-16	02/27/92	WWES	<100	<50	<50	<50	<50	<50	<50	890	<100	
T-16	02/27/92	WWES	<100	<50	<50	<50	<50	<50	<50	1100	<100	Duplicate
T-16	05/28/92	WWES	<50	<25	<25	53	<25	<25	<25	680	<50	
T-16	05/28/92	WWES	<50	<25	<25	55	<25	<25	<25	610	<50	Duplicate
T-16	08/26/92	WWES	<100	<50	<50	<50	<50	<50	<50	670	<100	
T-16	11/17/92	WWES	<50	<25	<25	50	<25	<25	<25	690	<50	
T-16	02/25/93	WWES	<50	<25	<25	60	<25	<25	<25	980	<50	
T-16	02/25/93	WWES	<50	<25	<25	50	<25	<25	<25	910	<50	Duplicate
T-16	05/26/93	WWES	<50	<25	<25	31*	<25	<25	<25	480*	<50	
T-16	05/26/93	WWES	<50	<25	<25	34	<25	<25	<25	510	<50	Duplicate
T-16	08/24/93	WWES	<26	<13	<13	<13	<13	<13	<13	340	<26	
T-16	11/17/93	WWES	<50	<25	<25	48	<25	<25	<25	580	<50	
T-17	05/30/91	WWES	<10	12	21	66	<5.0	20	150	34	<10	
T-17	05/30/91	WWES	<10	12	25	69	<5.0	23	120	33	<10	Duplicate
T-17	08/28/91	WWES	<10	5.0	15	37	<5.0	40	75	43	<10	
T-17	11/19/91	WWES	<10	<5.0	<5.0	9.0	<5.0	35	24	19	<10	
T-17	02/27/92	WWES	<10	<5.0	<5.0	7.0	<5.0	38	13	16	<10	
T-17	05/28/92	WWES	<10	<5.0	<5.0	10	<5.0	17	9.0	10	<10	
T-17	08/26/92	WWES	<10	<5.0	<5.0	11	<5.0	33	7.0	13	<10	
T-17	11/19/92	WWES	<10	<5.0	<5.0	8.0	<5.0	33	6.0	10	<10	
T-17	02/24/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	18	<5.0	7.0	<10	
T-17	05/25/93	WWES	<20	52	120	76	<10	110	370	88	<20	
T-17	08/24/93	WWES	<180	<90	440	88	<90	270	1600	220	<180	
T-17	08/24/93	WWES	<200	<100	400	<100	<100	240	1400	220	<200	Duplicate
T-17	11/16/93	WWES	<200	<100	570	<100	<100	270	2200	340	<200	
T-18	05/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-18	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-18	11/19/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-18	02/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-18	05/28/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-18	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-18	11/19/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-18	05/25/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-18	11/15/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19A	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19A	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19A	11/20/91	WWES	<10	<5.0	<5.0	<5.0	[11]	<5.0	<5.0	<5.0	<10	
T-19A	05/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19A	11/18/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19A	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19A	11/17/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19B	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19B	08/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19B	11/20/91	WWES	<10	<5.0	<5.0	<5.0	[11]	<5.0	<5.0	<5.0	<10	
T-19B	11/20/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Duplicate
T-19B	02/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19B	05/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19B	08/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19B	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19B	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19B	11/17/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-19C	05/29/91	WWES	<50	<25	<25	<25	<25	<25	<25	150	<50	
T-19C	08/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	95	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-19C	11/20/91	WWES	<10	<5.0	<5.0	<5.0	[10]	<5.0	<5.0	85	<10	
T-19C	02/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	77	<10	
T-19C	05/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	32	<10	
T-19C	08/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	30	<10	
T-19C	08/27/92	WWES	<10	<5.0	<5.0*	<5.0	<5.0	<5.0	<5.0	32	<10	Duplicate
T-19C	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	36	<10	
T-19C	02/25/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	70	<10	
T-19C	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	20	<10	
T-19C	08/25/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	17	<10	
T-19C	11/17/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	16	<10	
T-20	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-20	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-20	11/21/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-20	02/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	<10	
T-20	05/28/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.0	<10	
T-20	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.0	<10	
T-20	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	10	<10	
T-20	02/24/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	15	<10	
T-20	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-20	08/24/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9.0	<10	
T-20	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	10	<10	
T-20	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	10	<10	Duplicate
T-21	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-21	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-21	11/21/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-21	02/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-21	05/28/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-21	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-21	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-21	05/25/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-21	11/16/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-22A	05/28/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-22A	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-22A	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-22A	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-22A	11/17/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-22B	05/28/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-22B	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-22B	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-22B	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-22B	11/17/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-23	05/28/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	19	<10	
T-23	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	13	<10	
T-23	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	14	<10	
T-23	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	14	<10	Duplicate
T-23	02/24/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	12	<10	
T-23	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-23	08/25/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.0	<10	
T-23	11/17/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.0	<10	
T-24	06/03/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-24	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-24	11/18/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
T-25A	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-25A	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-25A	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-25A	11/17/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-25B	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-25B	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Duplicate
T-25B	11/17/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-25B	05/26/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
T-25B	11/17/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-1A	02/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-1A	11/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-1A	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-1A	08/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-1B	02/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-1B	11/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-1B	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-1B	08/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-2	02/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-2	11/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-2	08/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-2	08/26/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-3	08/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
P-4	08/27/92	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
P-5	08/27/92	WWES	<10	<5.0	48	38	<5.0	<5.0	590	270	<10	
P-6	08/27/92	WWES	<100	<50	57	82	<50	<50	820	490	<100	
P-6	08/27/92	WWES	<100	<50	62	75	<50	<50	1100	590	<100	Duplicate
W-1	02/17/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-1	05/25/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-1	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-1	05/23/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-1	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-1	11/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-1	02/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-1	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-1D	02/17/88	RASS	<10	<5.0	<5.0	10	49	<5.0	<5.0	210	<10	
W-1D	05/25/88	RASS	<10	6.0	<5.0	10	<5.0	<5.0	<5.0	210	<10	
W-1D	11/28/89	WWES	<10	<5.0	<5.0	12	<5.0	<5.0	<5.0	360	<10	
W-1D	11/28/89	WWES	<10	<5.0	<5.0	9.0	<5.0	<5.0	<5.0	270	<10	Duplicate
W-1D	02/27/90	WWES	<10	<5.0	<5.0	8.4	<5.0	<5.0	<5.0	370	<10	
W-1D	05/23/90	WWES	<20	<10	<10	11	<10	<10	<10	480	<20	
W-1D	08/28/90	WWES	<20	<10	<10	<10	<10	<10	<10	280	<20	
W-1D	11/28/90	WWES	<50	<25	<25	<25	<25	<25	<25	370	<50	
W-1D	02/27/91	WWES	<50	<25	<25	<25	<25	<25	<25	390	<50	
W-1D	05/29/91	WWES	<20	<10	<10	12	<10	<10	<10	400	<20	
W-1D	08/27/91	WWES	<50	<25	<25	<25	<25	<25	<25	380	<50	
W-1D	11/21/91	WWES	<50	<25	<25	<25	<25	<25	<25	370	<50	
W-1D	02/26/92	WWES	<25	<12.5	<12.5	16	<12.5	<12.5	<12.5	400	<25	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
W-1D	05/27/92	WWES	<20	<10	35	13	<10	<10	10	270	<20	
W-1D	08/25/92	WWES	<50	<25	30	<25	<25	<25	30	230	<50	
W-1D	11/17/92	WWES	<20	<10	49	20	<10	<10	58	280	<20	
W-1D	02/24/93	WWES	<20	<10	80	28	<10	<10	78	340	<20	
W-1D	05/25/93	WWES	<20	<10	63	25	<10	<10	76	280	<20	
W-1D	08/24/93	WWES	<20	<10	64	23	<10	<10	74	370	<20	
W-1D	11/16/93	WWES	<20	<10	74	26	<10	<10	62	380	<20	
W-1D	11/16/93	WWES	<20	<10	76	25	<10	<10	61	380	<20	Duplicate
W-2	02/17/88	RASS	410	1600	510	<5.0	<5.0	<5.0	690	7.0	8.0*	
W-2	05/26/88	RASS	150	2100	830	<5.0	41*	<5.0	700	6.0	13	
W-2	11/27/89	WWES	82	1300	370	<5.0	<5.0	<5.0	150	<5.0	11	
W-2	02/26/90	WWES	49	1100	290	<5.0	<5.0	<5.0	84	<5.0	<10	
W-2	05/22/90	WWES	<100	1000	280	<50	<50	<50	89	<50	<100	
W-2	08/29/90	WWES	<100	1000	420	<50	<50	<50	<50	<50	<100	
W-2	11/27/90	WWES	<100	1000	<50	<50	<50	<50	74	<50	<100	
W-2	02/26/91	WWES	<100	750	230	<50	<50	<50	<50	<50	<100	
W-2	05/29/91	WWES	<100	680	210	<50	<50	<50	<50	<50	<100	
W-2	08/27/91	WWES	<100	440	140	<50	<50	<50	<50	<50	<100	
W-2	11/21/91	WWES	<100	380	74	<50	<50	<50	<50	<50	<100	
W-2	02/26/92	WWES	<20	<10	<10	230	<10	<10	<10	60	<20	
W-2	05/27/92	WWES	<100	360	82	<50	<50	<50	<50	<50	<100	
W-2	11/17/92	WWES	<20	200	41	<10	<10	<10	<10	<10	17	
W-2	02/24/93	WWES	<20	200	28	<10	<10	<10	<10	<10	<20	
W-2	02/24/93	WWES	<20	270	57	<10	<10	<10	<10	<10	<20	Duplicate
W-2	05/25/93	WWES	<20	330	100	<10	<10	<10	18	<10	26	
W-2	05/25/93	WWES	<20	300	99	<10	<10	<10	16	<10	22	Duplicate
W-2	08/24/93	WWES	<60	640	150	<30	<30	<30	<30	<30	<60	
W-2	11/16/93	WWES	<50	700	170	<25	<25	<25	<25	<25	<50	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
W-2D	02/17/88	RASS	<10	7.0	<5.0	9.0	<5.0	<5.0	<5.0	260	<10	
W-2D	05/26/88	RASS	<10	<5.0	<5.0	8.0	46*	<5.0	<5.0	280	<10	
W-2D	11/27/89	WWES	<10	<5.0	<5.0	12	<5.0	<5.0	<5.0	300	<10	
W-2D	02/26/90	WWES	<10	<5.0	<5.0	10	<5.0	<5.0	<5.0	370	<10	
W-2D	05/22/90	WWES	<20	<10	<10	21	<10	<10	<10	420	<20	
W-2D	08/29/90	WWES	<20	<10	<10	15	<10	<10	<10	180	<20	
W-2D	11/27/90	WWES	<20	<10	<10	16	<10	<10	<10	320	<20	
W-2D	02/26/91	WWES	<20	<10	<10	23	<10	<10	<10	370	<20	
W-2D	05/29/91	WWES	<20	<10	<10	21	<10	<10	<10	290	<20	
W-2D	08/25/92	WWES	<25	<10	<10	20	<12.5	<10	<10	340	<25	
W-3	02/17/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-3	05/25/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-3	11/28/89	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-3	02/26/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-3	05/23/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-3	08/29/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-3	12/06/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-3	02/26/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-3	05/30/91	WWES	<10	<5.0	<5.0	<5.0	5.0	<5.0	<5.0	<5.0	<10	
W-3D	02/17/88	RASS	<10	<5.0	<5.0	19	<5.0	<5.0	8.0	720	<10	
W-3D	05/25/88	RASS	<10	6.0	7.0	20	7.0*	<5.0	12	780	<10	
W-3D	05/25/88	RASS	<10	5.0	6.0	20	6.0*	<5.0	12	790	<10	Duplicate
W-3D	11/28/89	WWES	<10	6.0	<5.0	15	<5.0	<5.0	<5.0	570	<10	
W-3D	02/27/90	WWES	<10	<5.0	<5.0	14	<5.0	<5.0	<5.0	500	<10	
W-3D	05/23/90	WWES	<50	<25	<25	<25	<25	<25	<25	540	<50	
W-3D	08/29/90	WWES	<50	<25	<25	<25	<25	<25	<25	440	<50	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
W-3D	12/06/90	WWES	<50	<25	<25	<25	<25	<25	<25	490	<50	
W-3D	02/27/91	WWES	<50	<25	36	<25	<25	<25	<25	590	<50	
W-3D	05/30/91	WWES	<50	<25	<25	<25	<25	<25	<25	390	<50	
W-3D	08/27/91	WWES	<50	<25	<25	<25	<25	<25	<25	450	<50	
W-3D	11/21/91	WWES	<50	<25	<25	<25	<25	<25	40	390	<50	
W-3D	02/26/92	WWES	<50	<25	<25	<25	27	<25	61	440	<50	
W-3D	05/27/92	WWES	<50	<25	29	<25	<25	<25	59	290	<50	
W-3D	08/25/92	WWES	<50	<25	30	<25	<25	<25	100	330	<50	
W-3D	11/17/92	WWES	<30	<15	25	18	<15	<15	110	260	<30	
W-3D	11/17/92	WWES	<30	15	35	22	<15	<15	130	300	<30	Duplicate
W-3D	02/24/93	WWES	<40	<20	31	20	<20	<20	120	330	<40	
W-3D	05/25/93	WWES	<30	14	28	19	<15	<15	90	320	<30	
W-3D	08/24/93	WWES	<26	13	27	18	<13	<13	76	360	<26	
W-3D	11/16/93	WWES	<30	<15	22	17	<15	<15	57	370	<30	
W-4	02/17/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-4	05/25/88	RASS	<10	<5.0	<5.0	<5.0	73	<5.0	<5.0	<5.0	<10	
W-4	11/28/89	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	19	<5.0	<10	
W-4	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-4	05/23/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	8.9	<5.0	<10	
W-4	08/29/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	13	<5.0	<10	
W-4	12/06/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	7.3	<5.0	<10	
W-4	02/28/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	5.8	<5.0	<10	
W-4	05/31/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-4D	02/17/88	RASS	<10	<5.0	<5.0	6.0	<5.0	<5.0	<5.0	320	9.0*	
W-4D	05/25/88	RASS	<10	<5.0	<5.0	6.0	<5.0	<5.0	<5.0	230	<10	
W-4D	11/28/89	WWES	<10	<5.0	<5.0	7.0	<5.0	<5.0	5.0	470	12	
W-4D	11/28/89	WWES	<10	<5.0	<5.0	7.0	<5.0	<5.0	5.0	470	11	Duplicate

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
W-4D	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	5.4	480	<10	
W-4D	05/23/90	WWES	<50	<25	<25	<25	<25	<25	<25	370	<50	
W-4D	08/29/90	WWES	<50	<25	<25	<25	<25	<25	<25	380	<50	
W-4D	08/29/90	WWES	<50	<25	<25	<25	<25	<25	<25	390	<50	Duplicate
W-4D	12/06/90	WWES	<50	<25	<25	<25	<25	<25	<25	410	<50	
W-4D	02/28/91	WWES	<50	<25	<25	<25	<25	<25	<25	500	<50	
W-4D	05/31/91	WWES	<50	<25	<25	<25	<25	<25	<25	120	<50	
W-4D	08/27/91	WWES	<50	<25	<25	<25	<25	<25	<25	250	<50	
W-4D	11/20/91	WWES	<50	<25	<25	<25	[30]	<25	<25	470	<50	
W-4D	02/26/92	WWES	<50	<25	<25	<25	<25	<25	<25	700	<50	
W-4D	05/27/92	WWES	<50	<25	<25	<25	<25	<25	<25	660	<50	
W-4D	08/25/92	WWES	<50	<25	<25	<25	<25	<25	<25	700	<50	
W-4D	11/17/92	WWES	<50	<25	<25	<25	<25	<25	<25	740	<50	
W-4D	02/24/93	WWES	<40	<20	<20	<20	<20	<20	<20	450	<40	
W-4D	05/25/93	WWES	<40	<20	<20	<20	<20	<20	<20	310	<40	
W-4D	08/23/93	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	64	<10	
W-4D	11/16/93	WWES	<10	<5.0	<5.0	7.0	<5.0	<5.0	5.0	110	<10	
W-5	02/18/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-5	05/25/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-5D	02/18/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-5D	05/25/88	RASS	<10	<5.0	<5.0	<5.0	35*	<5.0	<5.0	<5.0	<10	
W-6	02/18/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-6	05/25/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-7	02/18/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-7	02/18/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Duplicate

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
W-7	05/25/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-8	02/17/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9.0	<10	
W-8	05/26/88	RASS	<10	<5.0	<5.0	<5.0	320	<5.0	<5.0	<5.0	<10	
W-8	05/26/88	RASS	<10	<5.0	<5.0	<5.0	350	<5.0	<5.0	<5.0	<10	Duplicate
W-8	11/28/89	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-8	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-8	05/22/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-8	08/29/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-8	11/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-8	02/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-8	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-9	02/17/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-9	05/26/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-9	11/28/89	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-9	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-9	05/23/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-9	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-9	11/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-9	02/25/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-9	05/29/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-10	02/17/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-10	05/25/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-10	11/28/89	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-10	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-10	05/23/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-10	08/29/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
W-10	12/06/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0*	<10	
W-10	02/26/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-10	05/30/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-11	02/18/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-11	05/25/88	RASS	<10	<5.0	<5.0	<5.0	29	<5.0	<5.0	<5.0	<10	
W-11	11/28/89	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-11	02/27/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-11	05/24/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-11	08/29/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-11	12/06/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-11	02/27/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-11	05/30/91	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-12	02/18/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-12	02/18/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Replicate
W-12	05/25/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-13	02/18/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-13	05/25/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-14	02/18/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
W-14	05/25/88	RASS	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
AD-1	06/04/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
AD-1	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
AD-2	06/04/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
AD-2	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

TABLE 3

SUMMARY OF GROUND WATER ANALYTICAL RESULTS FOR VOLATILE ORGANICS
(all results in ug/l)

Well Number	Date Sampled	Lab	Chloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethylene (Total)	Methylene Chloride	Tetra-Chloro-ethylene	1,1,1-Trichloro-ethane	Trichloro-ethylene	Vinyl Chloride	Comments:
AD-2	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Duplicate
AD-3	06/04/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
AD-3	06/04/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	Duplicate
AD-3	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
AD-4	06/04/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
AD-4	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
AD-5	06/04/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	
AD-5	08/28/90	WWES	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	

Key: Less than indicates that the compound was not found or was below the reported detection limit. Thirty-four volatile compounds were included in the analytical scan. Compounds not detected are not shown on the table.

DAL = Daily Analytical Laboratories, Peoria, Illinois.

ECI = Environmental Consultants, Inc., Clarksville, Indiana.

RASS = Randolph & Associates, Inc., Peoria, Illinois.

WWES = WW Engineering & Science, Grand Rapids, Michigan.

* Estimated value as a result of data not meeting QA/QC validation criteria.

[30] Estimated value as a result of laboratory contamination.

Note: (1) Chloroform detected at 54 ug/l

(2) Xylene detected in T-6B (21 ug/l), T-7B (240 ug/l), T-7B Rep.(230 ug/l), and T-9 (270 ug/l)

(3) Toluene detected at 19 ug/l.

(4) Toluene detected at 5.4 ug/l.

(5) Carbon disulfide detected at 1,400 ug/l.

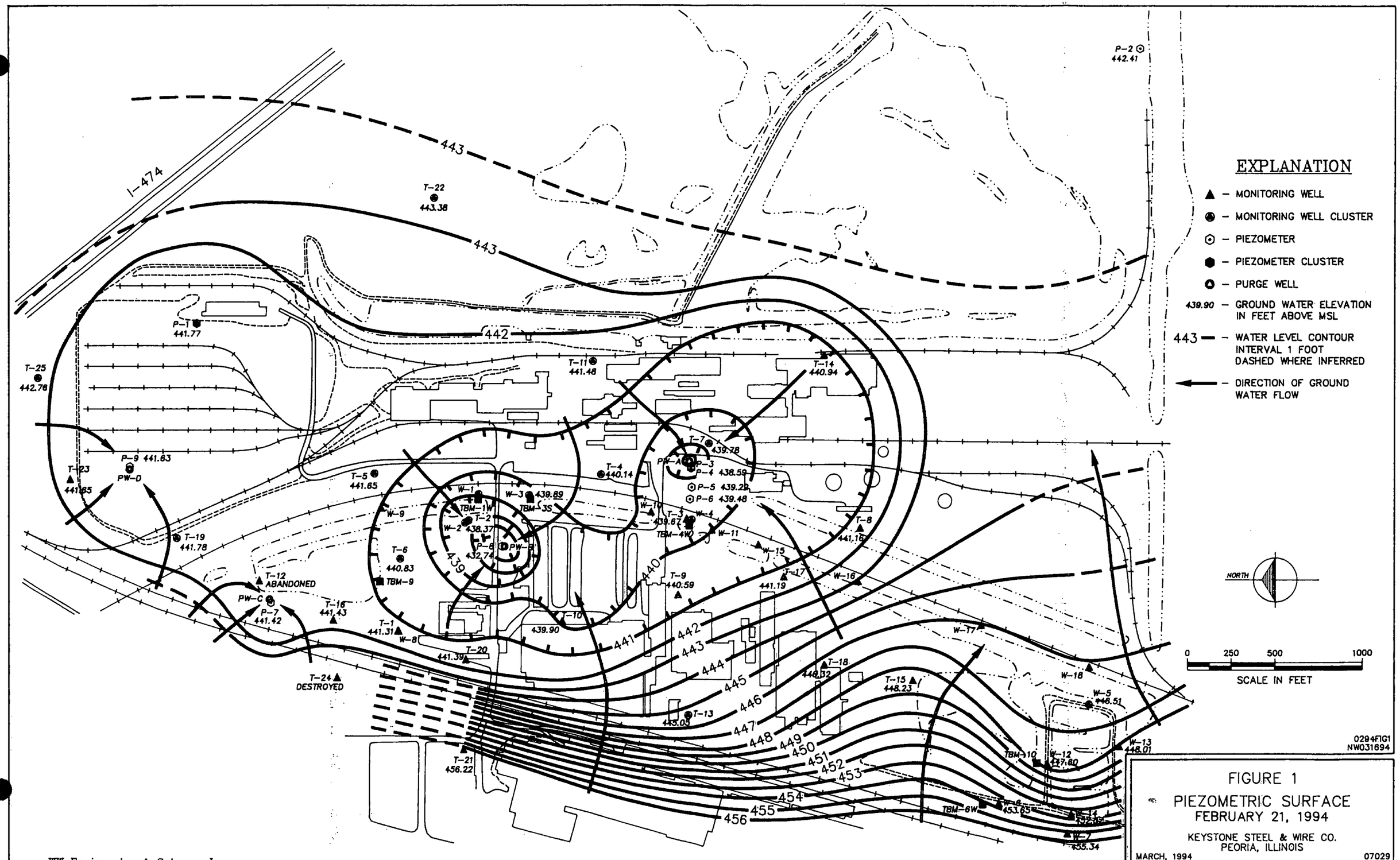

FIGURE 1

PIEZOMETRIC SURFACE
FEBRUARY 21, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

MARCH, 1994 07029

WW Engineering & Science, Inc.

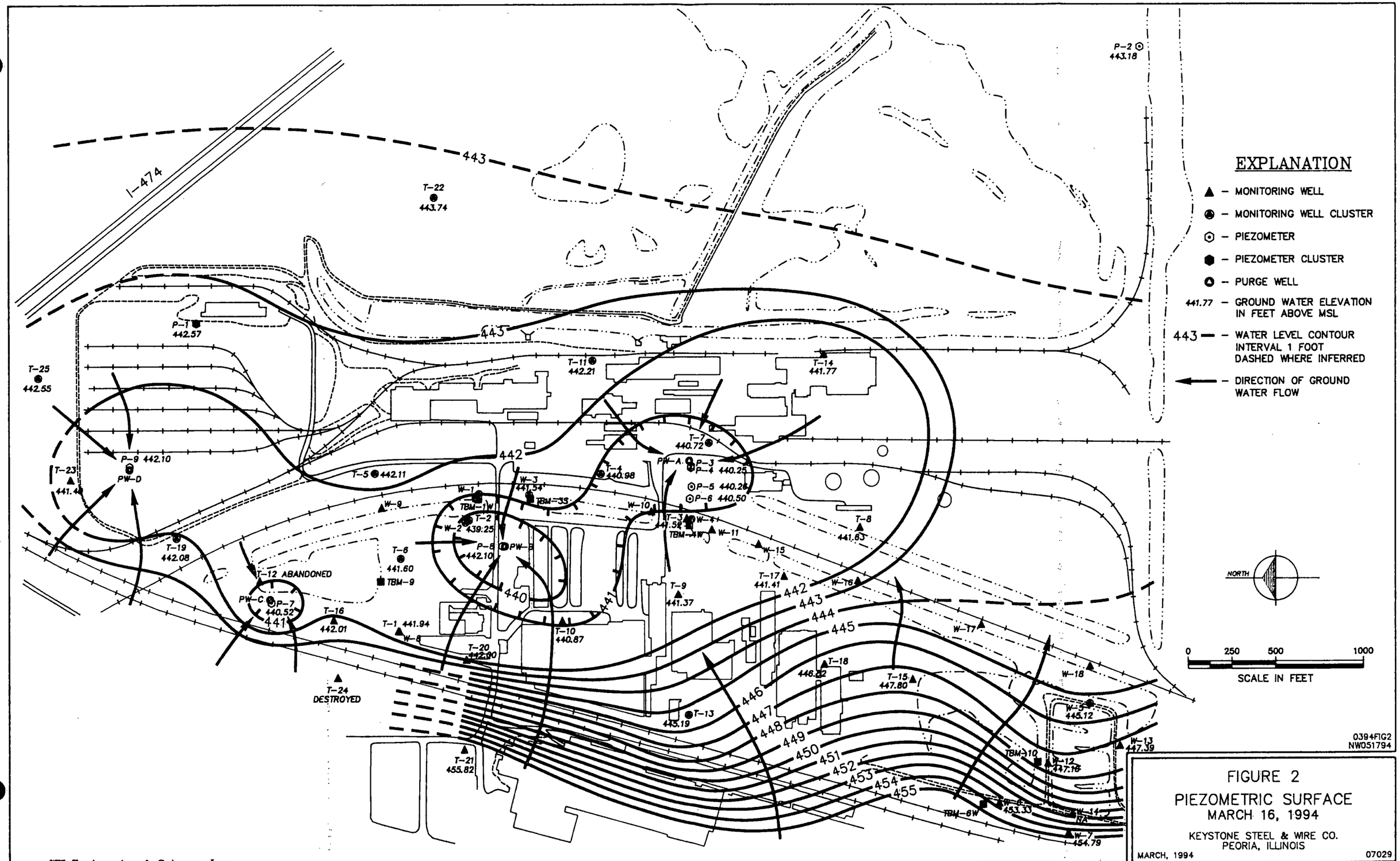

FIGURE 2

PIEZOMETRIC SURFACE
MARCH 16, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

MARCH, 1994 07029

WW Engineering & Science, Inc.

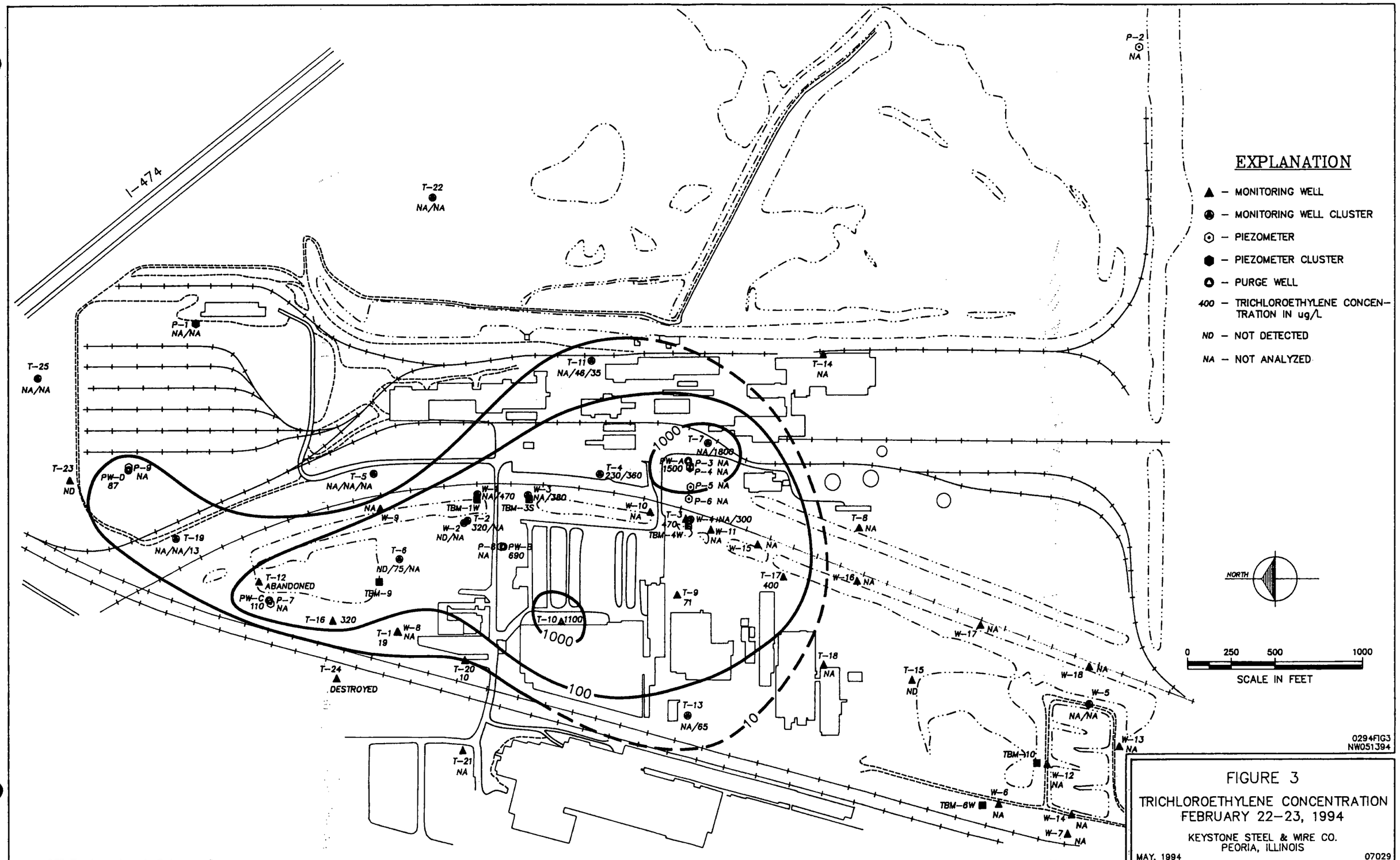

FIGURE 3

TRICHLOROETHYLENE CONCENTRATION
FEBRUARY 22–23, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

MAY, 1994 07029

WW Engineering & Science, Inc.

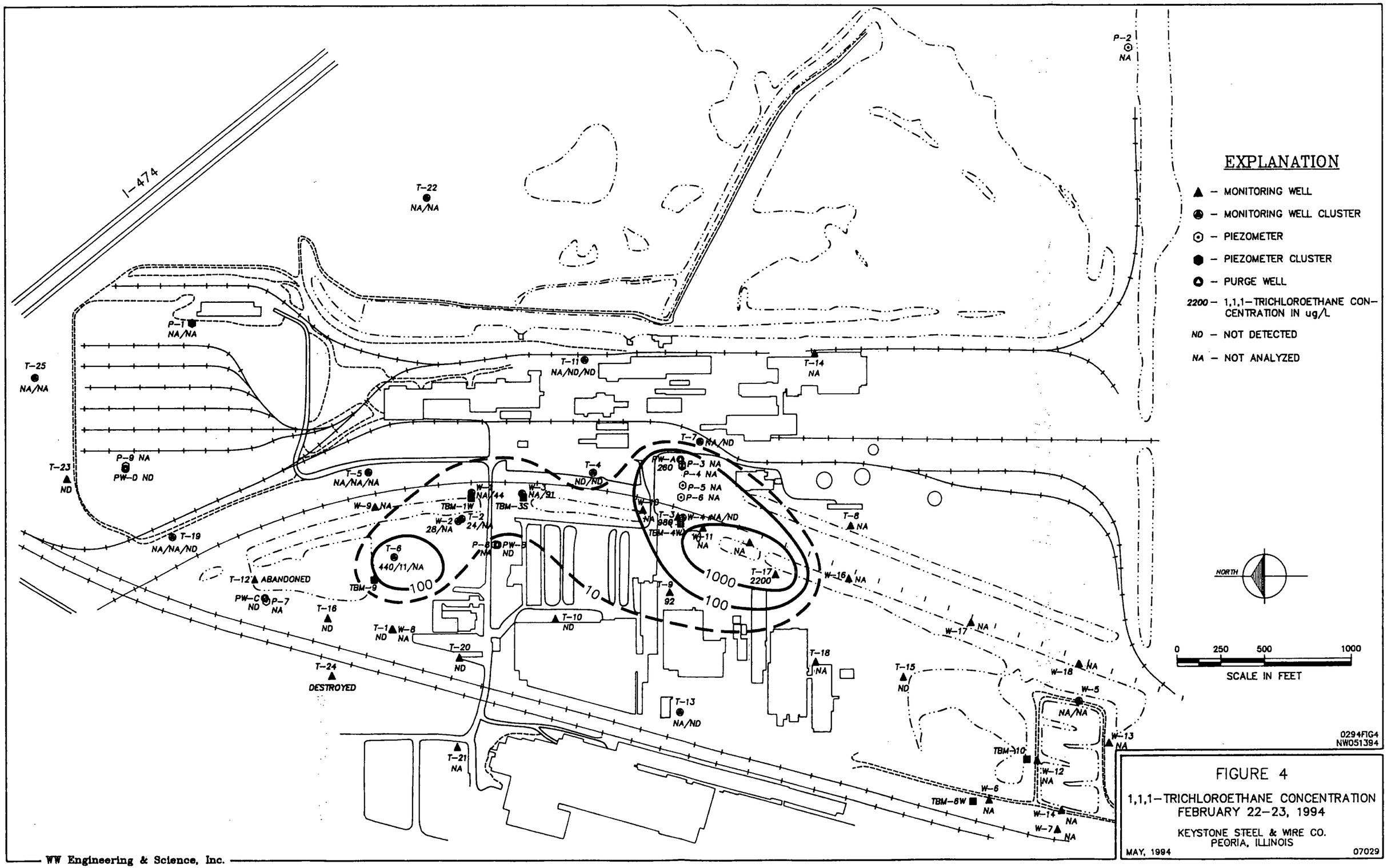

FIGURE 4

1,1,1–TRICHLOROETHANE CONCENTRATION
FEBRUARY 22–23, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

MAY, 1994 07029

WW Engineering & Science, Inc.

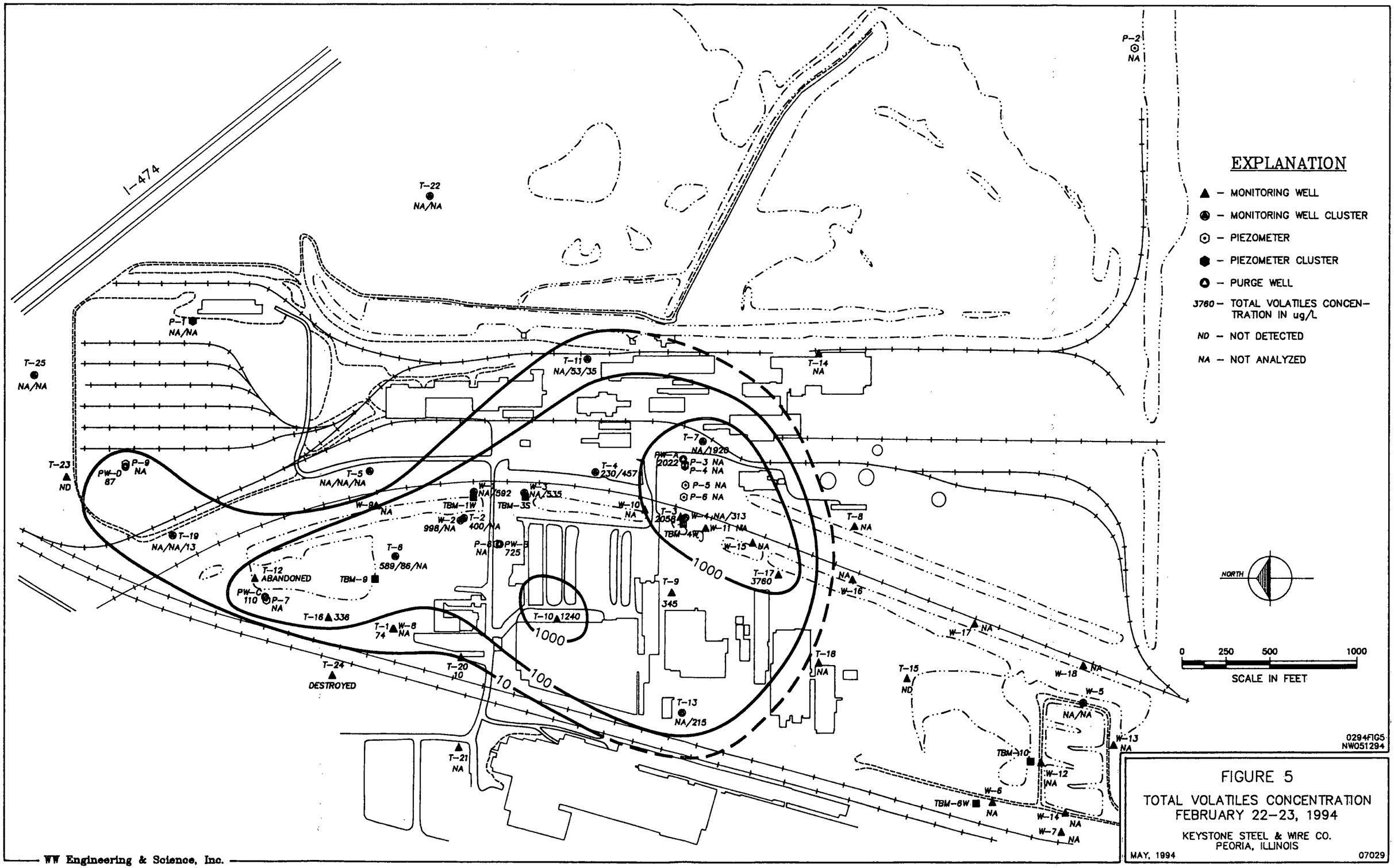

FIGURE 5

TOTAL VOLATILES CONCENTRATION
FEBRUARY 22–23, 1994

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

MAY, 1994 07029

WW Engineering & Science, Inc.

WW Engineering & Science
A Summit Company

ANALYTICAL SERVICES

April 6, 1994

Dr. Robert Aten
WW Engineering & Science
5010 Stone Mill Road
Bloomington, IN 47408

Dear Dr. Aten:

Enclosed please find one copy of the analytical report and data validation package for the quarterly Keystone Monitoring Program. All data were validated against Table 5 and SW846 protocols. All data were deemed acceptable with the exception of the following: lead spike recovery data for samples W-3 and W-1D Rep were below project specifications. Lead results for these two samples should be considered estimated. If you have any questions, please call.

Sincerely,

WW ENGINEERING & SCIENCE
ENVIRONMENTAL LABORATORY DIVISION

Ray V. Buhl

Ray V. Buhl
Senior Project Chemist

5555 Glenwood Hills Parkway SE, PO Box 371, Grand Rapids, MI 49588-0371 616/942-9600 Fax 942-6199

Buhl4/Aten3

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-108
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: W-1D

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-108
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: W-1D

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	44
1,1,2,2-Tetrachloroethane	<15
1,1,2-Trichloroethane	<15
1,1-Dichloroethane	<15
1,1-Dichloroethene	57
1,2-Dichloroethane	<15
1,2-Dichloropropane	<15
2-Butanone	<300
2-Chloroethyl vinyl ether	<30
2-Hexanone	<150
4-Methyl-2-pentanone	<150
Acetone	<300
Benzene	<15
Bromodichloromethane	<15
Bromoform	<15
Bromomethane	<30
Carbon Disulfide	<300
Carbon Tetrachloride	<15
Chlorobenzene	<15
Chloroethane	<30
Chloroform	<15
Chloromethane	<30
Dibromochloromethane	<15
Ethylbenzene	<15
Methylene Chloride	<15
Styrene	<15
Tetrachloroethene	<15
Toluene	<15
Trichloroethene	470
Vinyl Acetate	<150
Vinyl Chloride	<30

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-108
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: W-1D

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	21
cis-1,3-Dichloropropene	<15
m-Xylene/p-Xylene	<15
o-Xylene	<15
trans-1,2-Dichloroethene	<15
trans-1,3-Dichloropropene	<15

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-106
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: W-1D REP

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-106
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: W-1D REP

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	43
1,1,2,2-Tetrachloroethane	<15
1,1,2-Trichloroethane	<15
1,1-Dichloroethane	<15
1,1-Dichloroethene	59
1,2-Dichloroethane	<15
1,2-Dichloropropane	<15
2-Butanone	<300
2-Chloroethyl vinyl ether	<30
2-Hexanone	<150
4-Methyl-2-pentanone	<150
Acetone	<300
Benzene	<15
Bromodichloromethane	<15
Bromoform	<15
Bromomethane	<30
Carbon Disulfide	<300
Carbon Tetrachloride	<15
Chlorobenzene	<15
Chloroethane	<30
Chloroform	<15
Chloromethane	<30
Dibromochloromethane	<15
Ethylbenzene	<15
Methylene Chloride	<15
Styrene	<15
Tetrachloroethene	<15
Toluene	<15
Trichloroethene	460
Vinyl Acetate	<150
Vinyl Chloride	<30

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-106
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: W-1D REP

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	21
cis-1,3-Dichloropropene	<15
m-Xylene/p-Xylene	<15
o-Xylene	<15
trans-1,2-Dichloroethene	<15
trans-1,3-Dichloropropene	<15

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-110
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: W-2

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/03/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-110
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: W-2

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	28
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	810
1,1-Dichloroethene	160
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	54
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	<25
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-110
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: W-2

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<25
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-105
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: W-3D

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/03/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-105
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: W-3D

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	91
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	14
1,1-Dichloroethene	32
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	380
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-105
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: W-3D

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	18
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

WW Engineering & Science
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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-107
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: W-4D

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898 Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-107
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: W-4D

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<10
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	<10
1,1-Dichloroethene	<10
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	300
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-107
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: W-4D

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	13
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-119
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-1

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-119
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-1

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<25
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	<25
1,1-Dichloroethene	<25
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	19
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-119
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-1

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	55
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-109
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-2A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/03/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-109
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-2A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	24
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	<10
1,1-Dichloroethene	39
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	320
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-109
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-2A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	17
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-123
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-3

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-123
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-3

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	980
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	38
1,1-Dichloroethene	450
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	470
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-123
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-3

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	120
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-133
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-4A

Analysis	Results		DL	Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-133
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-4A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<10
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	<10
1,1-Dichloroethene	<10
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	230
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-133
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-4A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<10
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-134
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-4B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-134
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-4B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<10
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	15
1,1-Dichloroethene	66
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	360
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-134
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-4B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	16
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-129
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-6A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/05/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-129
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-6A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	440
1,1,2,2-Tetrachloroethane	<15
1,1,2-Trichloroethane	<15
1,1-Dichloroethane	49
1,1-Dichloroethene	100
1,2-Dichloroethane	<15
1,2-Dichloropropane	<15
2-Butanone	<300
2-Chloroethyl vinyl ether	<30
2-Hexanone	<150
4-Methyl-2-pentanone	<150
Acetone	<300
Benzene	<15
Bromodichloromethane	<15
Bromoform	<15
Bromomethane	<30
Carbon Disulfide	<300
Carbon Tetrachloride	<15
Chlorobenzene	<15
Chloroethane	<30
Chloroform	<15
Chloromethane	<30
Dibromochloromethane	<15
Ethylbenzene	<15
Methylene Chloride	<15
Styrene	<15
Tetrachloroethene	<15
Toluene	<15
Trichloroethene	<15
Vinyl Acetate	<150
Vinyl Chloride	<30

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-129
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-6A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<15
cis-1,3-Dichloropropene	<15
m-Xylene/p-Xylene	<15
o-Xylene	<15
trans-1,2-Dichloroethene	<15
trans-1,3-Dichloropropene	<15

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-130
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-6B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-130
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-6B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	11
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	75
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-130
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-6B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-120
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-7B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-120
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-7B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<50
1,1,2,2-Tetrachloroethane	<50
1,1,2-Trichloroethane	<50
1,1-Dichloroethane	<50
1,1-Dichloroethene	<50
1,2-Dichloroethane	<50
1,2-Dichloropropane	<50
2-Butanone	<1000
2-Chloroethyl vinyl ether	<100
2-Hexanone	<500
4-Methyl-2-pentanone	<500
Acetone	<1000
Benzene	<50
Bromodichloromethane	<50
Bromoform	<50
Bromomethane	<100
Carbon Disulfide	<1000
Carbon Tetrachloride	<50
Chlorobenzene	<50
Chloroethane	<100
Chloroform	<50
Chloromethane	<100
Dibromochloromethane	<50
Ethylbenzene	<50
Methylene Chloride	<50
Styrene	<50
Tetrachloroethene	<50
Toluene	<50
Trichloroethene	1800
Vinyl Acetate	<500
Vinyl Chloride	<100

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-120
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-7B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	120
cis-1,3-Dichloropropene	<50
m-Xylene/p-Xylene	<50
o-Xylene	<50
trans-1,2-Dichloroethene	<50
trans-1,3-Dichloropropene	<50

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-118
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-7B REP

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-118
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-7B REP

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<50
1,1,2,2-Tetrachloroethane	<50
1,1,2-Trichloroethane	<50
1,1-Dichloroethane	<50
1,1-Dichloroethene	<50
1,2-Dichloroethane	<50
1,2-Dichloropropane	<50
2-Butanone	<1000
2-Chloroethyl vinyl ether	<100
2-Hexanone	<500
4-Methyl-2-pentanone	<500
Acetone	<1000
Benzene	<50
Bromodichloromethane	<50
Bromoform	<50
Bromomethane	<100
Carbon Disulfide	<1000
Carbon Tetrachloride	<50
Chlorobenzene	<50
Chloroethane	<100
Chloroform	<50
Chloromethane	<100
Dibromochloromethane	<50
Ethylbenzene	<50
Methylene Chloride	<50
Styrene	<50
Tetrachloroethene	<50
Toluene	<50
Trichloroethene	1500
Vinyl Acetate	<500
Vinyl Chloride	<100

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-118
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-7B REP

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	110
cis-1,3-Dichloropropene	<50
m-Xylene/p-Xylene	<50
o-Xylene	<50
trans-1,2-Dichloroethene	<50
trans-1,3-Dichloropropene	<50

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-111
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-9

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-111
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-9

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	92
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	15
1,1-Dichloroethene	88
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	79
Toluene	<5
Trichloroethene	71
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-111
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-9

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-132
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-10

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/05/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 4898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-132
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-10

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<50
1,1,2,2-Tetrachloroethane	<50
1,1,2-Trichloroethane	<50
1,1-Dichloroethane	<50
1,1-Dichloroethene	<50
1,2-Dichloroethane	<50
1,2-Dichloropropane	<50
2-Butanone	<1000
2-Chloroethyl vinyl ether	<100
2-Hexanone	<500
4-Methyl-2-pentanone	<500
Acetone	<1000
Benzene	<50
Bromodichloromethane	<50
Bromoform	<50
Bromomethane	<100
Carbon Disulfide	<1000
Carbon Tetrachloride	<50
Chlorobenzene	<50
Chloroethane	<100
Chloroform	<50
Chloromethane	<100
Dibromochloromethane	<50
Ethylbenzene	<50
Methylene Chloride	<50
Styrene	<50
Tetrachloroethene	<50
Toluene	<50
Trichloroethene	1100
Vinyl Acetate	<500
Vinyl Chloride	<100

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-132
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-10

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	140
cis-1,3-Dichloropropene	<50
m-Xylene/p-Xylene	<50
o-Xylene	<50
trans-1,2-Dichloroethene	<50
trans-1,3-Dichloropropene	<50

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-116
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-11B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-116
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-11B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	24
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	46
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-116
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-11B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	7
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-113
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-11C

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-113
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-11C

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	35
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-113
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-11C

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-112
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-13B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-112
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-13B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	65
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-112
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-13B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	150
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-128
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-16

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/05/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
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Date Received: 02/24/1994

Lab Sample ID: 12274-128
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-16

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<10
1,1,2,2-Tetrachloroethane	<10
1,1,2-Trichloroethane	<10
1,1-Dichloroethane	<10
1,1-Dichloroethene	<10
1,2-Dichloroethane	<10
1,2-Dichloropropane	<10
2-Butanone	<200
2-Chloroethyl vinyl ether	<20
2-Hexanone	<100
4-Methyl-2-pentanone	<100
Acetone	<200
Benzene	<10
Bromodichloromethane	<10
Bromoform	<10
Bromomethane	<20
Carbon Disulfide	<200
Carbon Tetrachloride	<10
Chlorobenzene	<10
Chloroethane	<20
Chloroform	<10
Chloromethane	<20
Dibromochloromethane	<10
Ethylbenzene	<10
Methylene Chloride	<10
Styrene	<10
Tetrachloroethene	<10
Toluene	<10
Trichloroethene	320
Vinyl Acetate	<100
Vinyl Chloride	<20

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-128
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-16

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	16
cis-1,3-Dichloropropene	<10
m-Xylene/p-Xylene	<10
o-Xylene	<10
trans-1,2-Dichloroethene	<10
trans-1,3-Dichloropropene	<10

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-121
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-17

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-121
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-17

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	2200
1,1,2,2-Tetrachloroethane	<100
1,1,2-Trichloroethane	<100
1,1-Dichloroethane	100
1,1-Dichloroethene	630
1,2-Dichloroethane	<100
1,2-Dichloropropane	<100
2-Butanone	<2000
2-Chloroethyl vinyl ether	<200
2-Hexanone	<1000
4-Methyl-2-pentanone	<1000
Acetone	<2000
Benzene	<100
Bromodichloromethane	<100
Bromoform	<100
Bromomethane	<200
Carbon Disulfide	<2000
Carbon Tetrachloride	<100
Chlorobenzene	<100
Chloroethane	<200
Chloroform	<100
Chloromethane	<200
Dibromochloromethane	<100
Ethylbenzene	<100
Methylene Chloride	<100
Styrene	<100
Tetrachloroethene	290
Toluene	<100
Trichloroethene	400
Vinyl Acetate	<1000
Vinyl Chloride	<200

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-121
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-17

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	140
cis-1,3-Dichloropropene	<100
m-Xylene/p-Xylene	<100
o-Xylene	<100
trans-1,2-Dichloroethene	<100
trans-1,3-Dichloropropene	<100

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-127
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-17 REP

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-127
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-17 REP

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	2000
1,1,2,2-Tetrachloroethane	<100
1,1,2-Trichloroethane	<100
1,1-Dichloroethane	<100
1,1-Dichloroethene	670
1,2-Dichloroethane	<100
1,2-Dichloropropane	<100
2-Butanone	<2000
2-Chloroethyl vinyl ether	<200
2-Hexanone	<1000
4-Methyl-2-pentanone	<1000
Acetone	<2000
Benzene	<100
Bromodichloromethane	<100
Bromoform	<100
Bromomethane	<200
Carbon Disulfide	<2000
Carbon Tetrachloride	<100
Chlorobenzene	<100
Chloroethane	<200
Chloroform	<100
Chloromethane	<200
Dibromochloromethane	<100
Ethylbenzene	<100
Methylene Chloride	<100
Styrene	<100
Tetrachloroethene	310
Toluene	<100
Trichloroethene	350
Vinyl Acetate	<1000
Vinyl Chloride	<200

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-127
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-17 REP

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	130
cis-1,3-Dichloropropene	<100
m-Xylene/p-Xylene	<100
o-Xylene	<100
trans-1,2-Dichloroethene	<100
trans-1,3-Dichloropropene	<100

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-115
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-19C

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-115
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-19C

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	13
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-115
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-19C

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-131
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-20

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-131
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-20

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	10
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-131
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-20

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-114
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-23

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-114
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-23

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-114
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-23

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-122
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: T-15

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-122
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-15

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-122
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: T-15

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-103
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: PW-A

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-103
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: PW-A

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	260
1,1,2,2-Tetrachloroethane	<50
1,1,2-Trichloroethane	<50
1,1-Dichloroethane	<50
1,1-Dichloroethene	77
1,2-Dichloroethane	<50
1,2-Dichloropropane	<50
2-Butanone	<1000
2-Chloroethyl vinyl ether	<100
2-Hexanone	<500
4-Methyl-2-pentanone	<500
Acetone	<1000
Benzene	<50
Bromodichloromethane	<50
Bromoform	<50
Bromomethane	<100
Carbon Disulfide	<1000
Carbon Tetrachloride	<50
Chlorobenzene	<50
Chloroethane	<100
Chloroform	<50
Chloromethane	<100
Dibromochloromethane	<50
Ethylbenzene	<50
Methylene Chloride	<50
Styrene	<50
Tetrachloroethene	<50
Toluene	<50
Trichloroethene	1500
Vinyl Acetate	<500
Vinyl Chloride	<100

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-103
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: PW-A

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	130
cis-1,3-Dichloropropene	<50
m-Xylene/p-Xylene	<50
o-Xylene	<50
trans-1,2-Dichloroethene	55
trans-1,3-Dichloropropene	<50

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LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-104
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: PW-B

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

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Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-104
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: PW-B

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<25
1,1,2,2-Tetrachloroethane	<25
1,1,2-Trichloroethane	<25
1,1-Dichloroethane	<25
1,1-Dichloroethene	35
1,2-Dichloroethane	<25
1,2-Dichloropropane	<25
2-Butanone	<500
2-Chloroethyl vinyl ether	<50
2-Hexanone	<250
4-Methyl-2-pentanone	<250
Acetone	<500
Benzene	<25
Bromodichloromethane	<25
Bromoform	<25
Bromomethane	<50
Carbon Disulfide	<500
Carbon Tetrachloride	<25
Chlorobenzene	<25
Chloroethane	<50
Chloroform	<25
Chloromethane	<50
Dibromochloromethane	<25
Ethylbenzene	<25
Methylene Chloride	<25
Styrene	<25
Tetrachloroethene	<25
Toluene	<25
Trichloroethene	690
Vinyl Acetate	<250
Vinyl Chloride	<50

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-104
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: PW-B

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<25
cis-1,3-Dichloropropene	<25
m-Xylene/p-Xylene	<25
o-Xylene	<25
trans-1,2-Dichloroethene	<25
trans-1,3-Dichloropropene	<25

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ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science
5010 Stone Mill Rd.
Bloomington IN 47408

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-101
Sample Matrix: GR.WATER

Purchase Order: 07029.00

PROJECT: 07029.00

CUSTOMER SAMPLE ID: PW-C

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/03/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Authorized By: Angela Stephens
Lab Project Manager

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-101
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: PW-C

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	110
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-101
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: PW-C

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/22/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-102
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: PW-D

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-102
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: PW-D

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	87
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-102
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: PW-D

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-124
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: BLANK 130

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-124
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: BLANK 130

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-124
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: BLANK 130

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-125
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: BLANK 210

Analysis	Results		DL	Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-125
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: BLANK 210

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-125
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: BLANK 210

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-126
Sample Matrix: GR.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: BLANK 218

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-126
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: BLANK 218

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-126
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: BLANK 218

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

WW Engineering & Science
A Summit Company

ANALYTICAL SERVICES

LABORATORY REPORT

Attn: Bob Aten
WW Engineering & Science

Date Sampled: 02/23/94
Date Received: 02/24/94
Date Reported: 03/14/94

Lab Sample ID: 12274-117
Sample Matrix: DI.WATER

PROJECT: 07029.00

CUSTOMER SAMPLE ID: TRIP BLANK

Analysis	Results	DL		Analyzed	*	Method
VOA	ATTACHED	-	-	03/04/94	KM	USEPA-8240

ND - Not Detected at Detection Limit
DL - Detection Limit
* - Analyst Initials

1550 - 37th Street NE, PO Box 3898, Cleveland, TN 37320-3898, 615/476-7766 Fax 476-9217

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-117
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: TRIP BLANK

COMPOUND	RESULTS (µg/L)
1,1,1-Trichloroethane	<5
1,1,2,2-Tetrachloroethane	<5
1,1,2-Trichloroethane	<5
1,1-Dichloroethane	<5
1,1-Dichloroethene	<5
1,2-Dichloroethane	<5
1,2-Dichloropropane	<5
2-Butanone	<100
2-Chloroethyl vinyl ether	<10
2-Hexanone	<50
4-Methyl-2-pentanone	<50
Acetone	<100
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<10
Carbon Disulfide	<100
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<10
Chloroform	<5
Chloromethane	<10
Dibromochloromethane	<5
Ethylbenzene	<5
Methylene Chloride	<5
Styrene	<5
Tetrachloroethene	<5
Toluene	<5
Trichloroethene	<5
Vinyl Acetate	<50
Vinyl Chloride	<10

Volatile Organic Analysis Report

Attn: Bob Aten
WW Engineering & Science

Date Received: 02/24/1994

Lab Sample ID: 12274-117
Matrix: GR.WATER

Date Reported: 03/14/1994

CUSTOMER SAMPLE ID: TRIP BLANK

COMPOUND	RESULTS (µg/L)
cis-1,2-Dichloroethene	<5
cis-1,3-Dichloropropene	<5
m-Xylene/p-Xylene	<5
o-Xylene	<5
trans-1,2-Dichloroethene	<5
trans-1,3-Dichloropropene	<5

STATEMENT OF DATA QUALIFICATIONS

CLIENT: WW Engineering & Science

LAB REFERENCE #: 12274

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

NOTE: This document is included as part of the Laboratory Report for the above referenced submittal and must be retained as a permanent record thereof.

WW Engineering & Science
A Summit Company
5010 Stone Mill Road • Bloomington, Indiana 47408

Chain of Custody Record
Analytical Services

COC No.
№ 30563

WWES Proj. Mgr.	Project Name	
Bob Aten	Keystone Steel & Wire	
WWES Proj. No.	Sampler (Print)	
07029.00	Sampler Signature: RJF, RWC, MBL, JDB, ARV	

No's Correspond to Bottle Packing List

For Lab Use Only
Rack/Tray No:
Lab Project #

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	Container Type	Analysis Required/Comments	Sample No.	Filtered Date/Time
2/22/94	3:50pm	WTR		X	T-9	2		Volatiles		
2/22/94	3:45pm	WTR		X	T-13B	2				
2/23/94	11:35AM	WTR		X	T-11C	2				
2/23/94	10:30AM	WTR		X	T-23	2		Received at 4°C		
2/23/94	10:55AM	WTR		X	T-19C	2				
2/23/94	10:20AM	WTR		X	T-11B	2				
2/23/94		WTR		X	Trip Blank	2				
2/22/94	5:30pm	WTR		X	T-7BRep	2				
2/23/94	11:45AM	WTR		X	T-1	2				

Relinquished By:	Date/Time	Received By:	Received for Lab By:	Date/Time	Logged in By:	Date/Time
A. Rebecca Whitlatch	2/23/94 1:30pm		[illegible]	2/24/94		

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

E:SL:Charts/Chain of Custody

WW Engineering & Science
A Summit Company
5010 Stone Mill Road • Bloomington, Indiana 47408

Chain of Custody Record
Analytical Services

COC No.
№ 30564

WWES Proj. Mgr.	Project Name
Bob Aten	Keystone Steel & Wire
WWES Proj. No.	Sampler (Print)
070029.00	Sampler Signature: RJF, RWC, JDB, MBL, ARV

For Lab Use Only
Rack/Tray No:
Lab Project #

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	Container Type (No's Correspond to Bottle Packing List)	Analysis Required/Comments	Sample No.	Filtered Date/Time
✓ 2/23/94	11:55am	WTR		X	T-16	2		Volatiles		
✓ 2/23/94	11:45am	WTR		X	T-6A	2				
✓ 2/23/94	11:55am	WTR		X	T-6B	2				
✓ 2/23/94	1:00pm	WTR		X	T-20	2				
2/23/94	12:47pm	WTR		X	T-10	2				
2/23/94	12:45pm	WTR		X	T-4A	2				
2/23/94	1:10pm	WTR		X	T-4B	2				
								Received at 4°C		

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
A. Rebecca Velasco	2/23/94 1:30pm		Pam Windell	2/24/94		

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

0025

FSL/Charts/Chain of Custody

WW Engineering & Science
A Summit Company
5010 Stone Mill Road • Bloomington, Indiana 47408

Chain of Custody Record
Analytical Services

COC No.
№ 30565

WWES Proj. Mgr.	Project Name	No's Correspond to Bottle Packing List	For Lab Use Only
Bob Aton	Keystone Steel & Wire		Rack/Tray No:
WWES Proj. No. 070.79.00	Sampler (Print)		Lab Project #
	Sampler Signature: RJF, RWC, MBL, JDB, ARV		

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	Container Type	Analysis Required/Comments	Sample No.	Filtered Date/Time
ARV ~~2/22/94~~	~~1:40pm~~	~~WTR~~		~~X~~	~~W-30~~	~~2~~		Volatiles		
2/22/94	5:45pm	WTR		X	T-7B	2				
2/22/94	3:15pm	WTR		X	T-17	2				
2/22/94	3:00pm	WTR		X	T-15	2				
2/22/94	5:10pm	WTR		X	T-3	2				
2/23/94	9:20am	WTR		X	Blank-130	2		Received at 4°C		
2/23/94	9:25am	WTR		X	Blank-210	2				
2/23/94	9:30am	WTR		X	Blank-218	2				
2/22/94	5:15pm	WTR		X	T-17Rep	2				

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
A. Rebecca Vehslage	2/23/94 1:30pm		[illegible]	2/24/94		

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

0025

FSL/Charts/Chain of Custody

PHONE (615) [redacted]-7766
FAX (615) 476-9217

WW ENGINEERING & SCIENCE
CHAIN OF CUSTODY

1550 Thirty-[redacted]enth St., NE
Cleveland, TN 37312

PURCHASE ORDER NUMBER	DATE REPORT REQUIRED:
	TURNAROUND TIME: NORMAL X RUSH ____

REPORT TO:
Bob Aten
WWES
Bloomington, IN

COMMENTS / POSSIBLE HAZARDS:

BILL TO:
07024.00

DISPOSAL METHOD:
RETURN TO CUSTOMER: ____
OTHER INSTRUCTIONS:

FOR LAB USE ONLY:
Received at 4°C

ANALYSES REQUIRED

PRESERVATIVE	HCl
CONTAINER TYPE	40 ml glass
	Volatiles

SAMPLE I.D.	DATE	TIME	SAMPLE TYPE	NO. OF CONT.	Volatiles
~~B~~ ARV PWC	2/22/94	10:18 AM	WTR	2	X
PW-D	2/22/94	9:22 AM		2	X
PW-A	2/22/94	8:45 AM		2	X
PW-B	2/22/94	8:52 AM		2	X
W-3D	2/22/94	1:40 pm		2	X
W-1D Rep	2/22/94	12:59 pm		2	X
W-4D	2/22/94	11:25 AM		2	X
W-1D	2/22/94	12:59 pm		2	X
T-2A	2/22/94	4:00 pm		2	X
W-2	2/22/94	4:05 pm		2	X

RELINQUISHED BY: (Signature)	DATE / TIME	RELINQUISHED BY: (Signature)	DATE / TIME	RELINQUISHED BY: (Signature)	DATE / TIME
A. Rebecca Vehsbage	2/23/94 1:30 pm				
RECEIVED BY: (Signature)		RECEIVED BY: (Signature)		RECEIVED FOR LAB BY: (Signature)	2/24/94 9:30

Original—Remains With Sample Canary—Lab Copy Pink—Customer Copy