COMPILATION OF SITE DATA/ RECOMMENDATIONS FOR NO FURTHER ACTION

FORMER MONARCH CHEMICAL FACILITY
61 GATES AVENUE
GENEVA, NEW YORK
DELTA PROJECT NO. S096-015-1.0021

Delta Environmental Consultants, Inc.

COMPILATION OF SITE DATA/
RECOMMENDATIONS FOR NO FURTHER ACTION

FORMER MONARCH CHEMICAL FACILITY
61 GATES AVENUE
GENEVA, NEW YORK
DELTA PROJECT NO. S096-015-1.0021

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August 2000

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1.0 INTRODUCTION

1.1 Background and Purpose

In December 1998, a Remedial Investigation Report (RIR) for the site was submitted to H.B. Fuller Company, Basic Chemical Solutions (BCS) and the New York Department of Environmental Conservation (DEC). Since the submittal of the RIR, additional ground water monitoring activities were performed in accordance with the monitoring program presented in the RIR.

The purpose of this report is to discuss the supplemental ground water monitoring performed since the RIR was completed, provide a compilation of all site data, and present recommendations based on our understanding of the site.

1.2 Scope of Work

The supplemental monitoring activities were performed in April and August 1999. These activities included various tasks, as summarized below:

April 1999

- Two additional permanent monitoring wells (MW-112 and MW-113) were installed at the locations shown in Figure 1. These monitoring wells were installed north of existing monitoring well MW-111 and immediately west of the drainage ditch in order to provide additional monitoring points between the dissolved volatile organic compound (VOC) plume and the nearest seasonal surface water receptor, a drainage ditch located immediately east of the site.
- Water level readings were obtained from all 16 monitoring wells, one piezometer and three staff gauges.
- Ground water samples were obtained from 12 monitoring wells (MW-101 through MW-104, MW-108 through MW-113 and MW-201 through MW-203) using low flow purging and sampling techniques. The ground water samples were analyzed for VOCs and methyl blue active substances (MBAS).
- Field indicator parameters were evaluated on ground water samples obtained from 14 monitoring wells (MW-101 through MW-105, MW-108 through MW-113 and MW-201 through MW-203). These parameters included pH, dissolved oxygen (DO), specific conductance, temperature, and oxygen reduction potential (ORP).
- Laboratory bioindicator parameters were obtained from 12 monitoring wells (MW-101 through MW-103, MW-105 through MW-108, MW-111 through MW-113, MW-201 and MW-202). Bioindicator

parameters included alkalinity, nitrite/nitrate, ammonia, sulfate, sulfide, sodium chlorine, chloride, iron, total dissolved solids, COD, and BOD.

- Surface water samples were obtained from 3 previous sample locations (Stream A, B, and C). These samples were analyzed for VOCs and methylene blue active substance (MBAS), an aerobic biodegradable surfactant.

August 1999

- Water level readings were obtained from all 16 monitoring wells, one piezometer and three staff gauges.
- Ground water samples were obtained from 8 monitoring wells (MW-102, MW-109, MW-111 through MW-113, and MW-201 through MW-203) and analyzed for VOCs and MBAS.
- Surface water samples were obtained from Stream A, B, and C and analyzed for VOCs and MBAS.
- Existing monitoring well MW-102 was abandoned and was replaced with monitoring well MW-102A at the location shown in Figure 1. This additional abandonment and installation was completed to accommodate facility upgrades and modifications that were being performed by BCS, the current property owner.

As part of the supplemental monitoring activities, ground water samples were obtained by low flow purging techniques. The purpose of performing the low flow sampling was to minimize exposure of the samples to oxygen in order to obtain representative field and bioindicator parameters.

The low flow sampling was performed using a peristaltic pump and a flow-through 0.45 micron in-line filter cartridge. Field measurements including pH, DO, conductivity, temperature, and ORP were measured during purging and developing to evaluate well stabilization. In addition to the stabilization parameters, alkalinity, total residual chlorine, free chlorine, total iron and soluble iron were also measured in the field.

As part of the supplemental monitoring activities, three surface water samples (SW-1 through SW-3) were obtained from the drainage ditch. The samples were obtained by placing the sample jar directly into the water. Field measurements were obtained including pH, DO, conductivity and temperature.

After completing a review of the supplemental data, the monitoring wells and piezometer were abandoned in February 2000. The well abandonment was performed by a New York-licensed drilling contractor. Initially, the monitoring wells were excavated to a depth of 2 feet below ground surface. The exposed casing riser was cut off and the remaining well casing was sealed in-place with a bentonite/concrete grout. All protective manway pads, risers and casings were placed in an on-site rolloff container that was delivered to the site prior to well abandonment activities. All material from well abandonment activities (steel risers, manways and casings) were transported from the site and disposed at a local landfill as construction debris. Prior to well abandonment activities, adjacent property owners were contacted and written permission to access their property was obtained.

2.0. SITE HYDROGEOLOGY

As part of the remedial investigation and supplemental activities, thirteen water table monitoring wells were installed in the shallow portion of the unconsolidated aquifer and three telescoping ground water monitoring wells were installed into the lower portion of the unconsolidated aquifer at the locations shown in Figure 1. The purposes of installing these monitoring wells were to evaluate chemical quality of the ground water, obtain ground water levels and to characterize the hydrogeology beneath the site. Table 1 presents the water table elevation data for all monitoring wells installed at the facility.

Water table contour maps, based upon measurements obtained from the water table monitoring wells on April 28, 1999 and August 10, 1999, are presented in Figures 2 and 3, respectively. Review of these figures indicates that the ground water at the water table continues to flow toward the drainage ditch located east of the railroad tracks. This flow also mimics the surface topography at the site.

Based on water table elevation data obtained from monitoring wells MW-106 and MW-108 (located east of the drainage ditch), surficial ground water discharges to the drainage ditch when the water table elevation is above the surface water elevation within the drainage ditch. Surface water was not flowing through the drainage ditch at the time of our August 1999 sampling. Standing water was observed in portions of the drainage ditch and the corresponding water table elevations observed at monitoring wells MW-108, MW-111, MW-112 and MW-113 were below the elevation of the ditch bottom. Thus, ground water flow within the surficial aquifer on August 10, 1999 was not affected by the drainage ditch.

The horizontal hydraulic gradient ($\Delta h/\Delta L$) based on data obtained in both April and August 1999 between monitoring wells MW-101, MW-105 and MW-111 was determined to be 0.055. These values are consistent with the previous values presented in the RIR and are included as Appendix A.

Static water level readings were obtained from the three nested wells (MW-101/201, MW-102/202 and MW-108/203). Review of this data, as presented in Appendix A, indicates a continued downward vertical gradient of ground water flow at each well cluster. The average gradient for each cluster is presented below:

Wells	Average Gradient
MW-101/201	0.403
MW-102/202	0.467
MW-108/203	0.534

3.0 ANALYTICAL RESULTS

Tables 2 through 5 present the analytical data collected during the supplemental investigations. These tables include only the analytes that were detected above the laboratory method detection limits. The laboratory analytical reports are included as Appendix B.

The ground water results are referenced to the DEC ground water standards for Class GA fresh ground waters. All fresh water is classified Class GA and the best usage is as a source of potable water. The

surface water results are not referenced to objectives or standards since action levels have not been established for Class D surface waters.

Historical chemistry data tables that display all of the analytical data that has been obtained since the first investigation in 1996 are presented in Appendix C.

3.1 Volatile Organic Compounds

Volatile organic compounds were analyzed on two occasions as part of the supplemental investigation. The ground water and surface water results are discussed below.

3.1.1 Ground Water

As part of the supplemental sampling, 20 ground water samples were obtained from 12 locations and analyzed for VOCs. A summary of VOCs detected in the ground water from the monitoring wells, frequency of detection and the range of concentration are presented below:

Analyte	Frequency of Detection	Range of Concentration (mg/l)	Number of detections exceeding DEC ground water standard	DEC Class GA Standard (mg/l)
Tetrachloroethene (PCE)	9/20	<0.003 – 5.3	8	0.005
Trichloroethene (TCE)	11/20	<0.003 – 0.59	11	0.005
1,1,1–Trichloroethane (TCA)	7/20	<0.003 - 0.11	7	0.005
1,1-Dichloroethane (DCA)	11/20	<0.003 – 4.7	11	0.005
cis-1,2-Dichloroethene (cis-1,2-DCE)	11/20	<0.003 - <0.19	9	0.010
trans-1,2-Dichloroethane	1/20	<0.003 - 0.004	0	0.005
Chloroform	4/20	<0.003 - 0.006	0	0.007
Vinyl Chloride (VC)	7/20	<0.002 – 0.13	7	0.002
Toluene	1/20	<0.003 - <0.005	1	0.005
Acetone	5/20	<0.01 - 0.031	0	0.050
Benzene	1/20	<0.003 – 0.007	1	0.001
Xylene	2/20	<0.003 - 0.015	1	0.005

Methylene chloride was reported in all of the ground water samples. The laboratory reports indicate that the presence of this analyte was introduced in the laboratory and/ or field; thus, methylene chloride is not considered a chemical of concern and is not discussed further in the report.

The VOC ground water analytical results from April and August 1999 are presented in Tables 2 and 3 respectively. These tables contain all VOCs that were reported above the analytical method detection limit. The DEC ground water standard for Class GA ground waters is also listed for each analyte, where established.

Based on the results of the April 1999 and August 1999 ground water sampling event, isoconcentration maps were established for the following chlorinated VOCs: PCE, TCE, TCA, DCA, and VC. These isoconcentration maps are presented in Figures 4 through 13, respectively. The isoconcentration contours are inferred based on the existing data and estimated ground water flow directions.

Ground water at monitoring wells MW-102, MW-103, MW-109 and MW-112 historically have exhibited dissolved concentrations of PCE, TCE and associated degradation products in excess of the DEC ground water standards. Figures 14 through 17 present graphs of the chlorinated VOCs with respect to time in the ground water at these four monitoring well locations. Review of these figures indicates cyclical decreases and increases in the values of dissolved VOCs through July 1998. These decreases and increases are attributed to fluctuations of the water table with the higher concentrations of VOCs being reported during times of lower water levels. Overall, the trend of VOC concentrations in the ground water at the four monitoring wells is decreasing since July 1998 with the exception of PCE and DCA at monitoring well MW- 112.

3.1.2 Surface Water

Surface water samples were obtained from locations SW-1 through SW-3 on two occasions (April and August 1999). The surface water analytical results are also presented in Tables 2 and 3. Review of Table 3 indicates the presence of DCA and cis-1,2-DCE in one (August 1999) of the two sample events at the location of SW-2. The maximum concentration of DCA and cis-1,2-DCE was 0.007 mg/l and 0.004 mg/l, respectively. Surface water quality standards have not been promulgated by DEC for Class D water bodies. None of the VOCs were reported above the analytical detection limit in the water samples obtained in April 1999.

3.2 Field Indicator/Bioparameters

Field and laboratory bioparameters were measured during each ground water sampling event. The purpose of evaluating these parameters is to characterize the subsurface conditions that assist in predicting the potential of the VOCs to naturally attenuate. Tables 4 and 5 summarize the results of the field indicator/bioparameters.

3.3 Methyl Blue Active Substances

3.3.1 Ground Water

Nineteen ground water samples were obtained from 12 locations and analyzed for MBAS. The MBAS ground water analytical results are presented in Tables 4 and 5. The DEC ground water standard for surfactants is 0.5 mg/l. Review of tables 4 and 5 indicates MBAS concentrations in excess of the DEC standard at the locations of MW-102, MW-103 and MW-109 in April 1999 and MW-102, MW-109, and MW-113 in August 1999. MBAS concentrations in the ground water at monitoring wells MW-101, MW-102, MW-103 and MW-109 continue to show decreasing concentrations with respect to time, with the exception of increases in April 1999. MBAS was not reported in the ground water at monitoring wells MW-105 through MW-108 or the three telescoping monitoring wells during both the April and August 1999 sampling events.

3.3.2 Surface Water

Six surface water samples were obtained from 3 locations (SW-1 through SW-3) and analyzed for MBAS. The surface water analytical results, as presented in Tables 4 and 5, indicate that MBAS was detected in each surface water sample. The maximum concentration of 0.14 mg/l was located at SW-1 in August 1999.

4.0 BIODEGRADATION RATE EVALUATION

Previous information provided in the RIR indicated that the geochemical indicators of biodegradation provide a strong evidence of anaerobic biodegradation of the chlorinated VOCs. The apparent attenuation rates were calculated for the chlorinated VOCs previously identified in the ground water at monitoring well MW-102. These apparent attenuation rates are all within an order of magnitude and within the ranges reported for each constituent from various sources of literature.

Two breakdown constituents (cis-1,2-DCE and DCA) continue to be present in the surface water. Review of the historical ground water analytical results indicates overall decreasing concentrations of both of these VOCs in the ground water beneath the site, further evidence that biodegradation is occurring.

5.0 HISTORICAL PRECIPITATION

Precipitation data from 1950 through 1999 was obtained and the running averages are presented in Figures 18 and 19. Review of this data indicates that the period of site monitoring (1996 through 1999) encompassed an interval of high and low precipitation fluctuations in response to seasonal and climatic changes.

6.0 CONCLUSIONS

Based on the results of the supplemental investigations, in conjunction with the previous data presented in the RIR, the following conclusions are presented:

1. The ditch is the consistent ground water discharge point for both sides of the ditch.

   - Laterally, ground water flow direction at the site's water table is toward the east. The drainage ditch located approximately 75 feet east of the site is a seasonal receptor of the water table aquifer. The flow direction is consistent with previous ground water investigation results. Surface water elevations in the drainage ditch respond directly to precipitation. In addition, ground water flows east of the ditch it to the west towards the ditch.

   - Vertically, water level readings obtained from the three nested wells indicate a consistent downward vertical gradient. Ground water flow within the deep portion of the surficial aquifer is in an easterly direction.

   - MBAS serves as a very good tracer of ground water passing through the site's source area. Its distribution independently verifies that the ditch is the ground water receptor from the site.

   - The monitoring period (1996 though 1999) encompasses the full range of the hydrologic and climatic cycles, as evident by the precipitation amounts and fluctuations.

2. The VOC plume has been delineated and does not extend beyond the drainage ditch. The ground water potentiometric configuration is stable and consistent through wet as well as dry years.

   - The elevated presence of chlorinated VOCs in the ground water at monitoring well MW-102 is attributed to historical operational activities that occurred within the northern portion of the site.
   - The presence of elevated chlorinated VOCs in the ground water at monitoring well MW-109 is attributed to former storage activities that were reported in the Phase I Environmental Assessment.
   - The presence of elevated chlorinated VOCs in the ground water at monitoring wells MW-112 and MW-113 are attributed to migration from the source areas (vicinity of monitoring wells MW-102 and MW-109) and associated biodegradation.
   - Based on the low concentrations of chlorinated VOCs, dense non-aqueous phase liquids do not appear to be present in the subsurface.
   - The lateral and vertical extent of PCE, TCE and TCA (materials that are believed to have been used at the facility) have been determined.

3. There is strong, active bioattenuation of the VOCs from the site.

   - The presence of breakdown products (cis-1,2-DCE, DCA and VC) within the source areas (monitoring wells MW-102 and MW-109) and downgradient of the source areas (MW-112 and MW-113) indicate that biodegradation by reductive dechlorination is occurring.
   - Based on the presence of low levels of MBAS in the ground water and surface water and the enhanced biodegradation rate, MBAS is considered to present minimal health risks.
   - The 3+ chlorinated aliphatics (i.e. PCE, TCE and TCA) appear to be completely attenuated before migrating to the drainage ditch. These aliphatics have not been detected in the surface water samples.
   - The monochlorinated aliphatics (i.e. VC and chloroethane) appear to be completely attenuated before migrating to the drainage ditch. These aliphatics have not been detected in the surface water samples.
   - Two of the dichlorinated aliphatics (i.e. DCA and cis-1,2-DCE) continue to be recalcitrant and persist in very low but detectable concentrations at the downgradient monitoring wells (MW-111 through MW- 113) and the drainage ditch.
   - Based on the results of the initial NA screening completed as part of the RIR and the follow-up supplemental sampling, strong evidence is present that chlorinated biodegradation is occurring by reductive dechlorination within the source area.
   - Natural attenuation continues to be the preferred remedial alternative.

4. The drainage ditch is a Class D surface water body (best usage is fishing). VOCs that migrate to the drainage ditch will quickly be volatilized to the atmosphere, as documented by the historical surface water results.

    - Exposure and risks to human health and the environment are minimal based on the low levels of VOCs present in the surface water and the non-usage of surficial ground water for domestic or industrial processes.

Based on these conclusions, a decision was made to cease further ground water monitoring and to abandon all monitoring wells and the piezometer.

7.0 RECOMMENDATIONS

Based upon the conclusions above, a recommendation is made to cease ground water monitoring. This recommendation is based on the VOCs ability to naturally attenuate without effecting the nearby drainage ditch at levels that present a risk to human health and the environment. Additional monitoring at the site would not provide additional information with respect to the degradation and movement of the chlorinated VOCs.

8.0 REFERENCES

To review previous reports, please refer to the following documents:

Phase I Environmental Assessment of Monarch Facility, Geneva, New York – Final, Environmental Strategies Corporation (May 29, 1996)

H.B. Fuller Company, Monarch Chemical Division, Geneva, New York, Phase II Site Assessment, Leggette, Brashears & Graham, Inc. (July 1996)

Remedial Investigation Report, Former Monarch Chemicals Division, 61 Gates Avenue, Geneva, New York, Delta Environmental Consultants, Inc. (December 1998)

9.0 REMARKS

This report was prepared by:

DELTA ENVIRONMENTAL CONSULTANTS, INC.

FOR

8-16-00

Heather Watson
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Date

This report was reviewed by:

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Project Manager

Date

TABLES

TABLE 1
HISTORICAL WATER ELEVATION DATA
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK
DELTA PROJECT NO. S096-015

PERIOD: From 10/22/1996 thru 08/11/1999 - Inclusive

SITE	DATE	MP ELEVATION (feet)	DEPTH TO WATER (feet)	Δ WATER ELEV (feet)	WATER ELEV (feet)
MW-101	10/22/1996	466.54	7.20	NA	459.34
MW-101	8/15/1997	466.54	12.61	-5.41	453.93
MW-101	8/22/1997	466.54	13.57	-0.96	452.97
MW-101	8/29/1997	466.54	12.78	0.79	453.76
MW-101	9/5/1997	466.54	12.59	0.19	453.95
MW-101	9/12/1997	466.54	12.76	-0.17	453.78
MW-101	9/18/1997	466.54	12.95	-0.19	453.59
MW-101	9/26/1997	466.54	13.04	-0.09	453.50
MW-101	2/18/1998	466.54	7.80	5.24	458.74
MW-101	5/28/1998	466.54	8.90	-1.10	457.64
MW-101	7/16/1998	466.54	8.75	0.15	457.79
MW-101	4/28/1999	466.54	7.99	0.76	458.55
MW-101	8/10/1999	466.54	12.75	-4.76	453.79
MW-102	10/22/1996	462.72	5.95	NA	456.77
MW-102	8/15/1997	462.72	9.63	-3.68	453.09
MW-102	8/22/1997	462.72	9.84	-0.21	452.88
MW-102	8/29/1997	462.72	10.03	-0.19	452.69
MW-102	9/5/1997	462.72	9.23	0.80	453.49
MW-102	9/12/1997	462.72	9.65	-0.42	453.07
MW-102	9/18/1997	462.72	10.06	-0.41	452.66
MW-102	9/26/1997	462.72	10.59	-0.53	452.13
MW-102	2/18/1998	462.72	3.90	6.69	458.82
MW-102	5/28/1998	462.72	6.99	-3.09	455.73
MW-102	7/16/1998	462.72	6.04	0.95	456.68
MW-102	4/28/1999	462.72	5.63	0.41	457.09
MW-102	8/10/1999	462.72	9.37	-3.74	453.35

Change in water elevation is since last reported measurement.
Measurements are based on Mean Sea Level.
D = Well was dry
NA = Not applicable since well was dry.

TABLE 1
HISTORICAL WATER ELEVATION DATA
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK
DELTA PROJECT NO. S096-015

PERIOD: From 10/22/1996 thru 08/11/1999 - Inclusive

SITE	DATE	MP ELEVATION (feet)	DEPTH TO WATER (feet)	Δ WATER ELEV (feet)	WATER ELEV (feet)
MW-103	10/22/1996	462.69	5.18	NA	457.51
MW-103	8/15/1997	462.69	11.68	-6.50	451.01
MW-103	8/22/1997	462.69	10.41	1.27	452.28
MW-103	8/29/1997	462.69	12.02	-1.61	450.67
MW-103	9/5/1997	462.69	10.41	1.61	452.28
MW-103	9/12/1997	462.69	9.95	0.46	452.74
MW-103	9/18/1997	462.69	12.11	-2.16	450.58
MW-103	9/26/1997	462.69	13.27	-1.16	449.42
MW-103	2/18/1998	462.69	4.94	8.33	457.75
MW-103	5/28/1998	462.69	7.80	-2.86	454.89
MW-103	7/16/1998	462.69	6.77	1.03	455.92
MW-103	4/28/1999	462.69	5.56	1.21	457.13
MW-103	8/10/1999	462.69	9.32	-3.76	453.37
MW-104	10/22/1996	462.43	3.70	NA	458.73
MW-104	8/15/1997	462.43	4.22	-0.52	458.21
MW-104	8/22/1997	462.43	3.83	0.39	458.60
MW-104	8/29/1997	462.43	4.49	-0.66	457.94
MW-104	9/5/1997	462.43	4.03	0.46	458.40
MW-104	9/12/1997	462.43	3.82	0.21	458.61
MW-104	9/18/1997	462.43	4.01	-0.19	458.42
MW-104	9/26/1997	462.43	3.71	0.30	458.72
MW-104	2/18/1998	462.43	3.80	-0.09	458.63
MW-104	5/28/1998	462.43	4.24	-0.44	458.19
MW-104	7/16/1998	462.43	4.15	0.09	458.28
MW-104	4/28/1999	462.43	4.17	-0.02	458.26
MW-104	8/10/1999	462.43	4.45	-0.28	457.98

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SITE	DATE	MP ELEVATION (feet)	DEPTH TO WATER (feet)	Δ WATER ELEV (feet)	WATER ELEV (feet)
MW-105	8/15/1997	457.61	9.03	-4.40	448.58
MW-105	8/22/1997	457.61	8.86	0.17	448.75
MW-105	8/29/1997	457.61	9.16	-0.30	448.45
MW-105	9/5/1997	457.61	8.72	0.44	448.89
MW-105	9/12/1997	457.61	8.33	0.39	449.28
MW-105	9/18/1997	457.61	9.06	-0.73	448.55
MW-105	9/26/1997	457.61	8.67	0.39	448.94
MW-105	2/18/1998	457.61	6.00	2.67	451.61
MW-105	5/28/1998	457.61	8.51	-2.51	449.10
MW-105	7/16/1998	457.61	7.79	0.72	449.82
MW-105	4/28/1999	457.61	6.85	0.94	450.76
MW-105	8/10/1999	457.61	9.47	-2.62	448.14
MW-106	8/15/1997	451.50	5.62	NA	445.88
MW-106	8/22/1997	451.50	5.48	0.14	446.02
MW-106	8/29/1997	451.50	5.64	-0.16	445.86
MW-106	9/5/1997	451.50	5.55	0.09	445.95
MW-106	9/12/1997	451.50	5.39	0.16	446.11
MW-106	9/18/1997	451.50	5.62	-0.23	445.88
MW-106	9/26/1997	451.50	5.25	0.37	446.25
MW-106	2/18/1998	451.50	1.82	3.43	449.68
MW-106	5/28/1998	451.50	4.61	-2.79	446.89
MW-106	4/28/1999	451.50	3.46	1.15	448.04
MW-106	8/10/1999	451.50	5.51	-2.05	445.99
MW-107	8/15/1997	465.76	13.79	NA	451.97
MW-107	8/22/1997	465.76	12.57	1.22	453.19

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GENEVA, NEW YORK
DELTA PROJECT NO. S096-015

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SITE	DATE	MP ELEVATION (feet)	DEPTH TO WATER (feet)	Δ WATER ELEV (feet)	WATER ELEV (feet)
MW-107	8/29/1997	465.76	13.59	-1.02	452.17
MW-107	9/5/1997	465.76	12.62	0.97	453.14
MW-107	9/12/1997	465.76	12.04	0.58	453.72
MW-107	9/18/1997	465.76	13.22	-1.18	452.54
MW-107	9/26/1997	465.76	12.56	0.66	453.20
MW-107	2/18/1998	465.76	8.67	3.89	457.09
MW-107	5/28/1998	465.76	11.39	-2.72	454.37
MW-107	7/16/1998	465.76	10.50	0.89	455.26
MW-107	4/28/1999	465.76	10.44	0.06	455.32
MW-107	8/10/1999	465.76	13.67	-3.23	452.09
MW-108	8/15/1997	453.92	10.82	NA	443.10
MW-108	8/22/1997	453.92	10.90	-0.08	443.02
MW-108	8/29/1997	453.92	11.01	-0.11	442.91
MW-108	9/5/1997	453.92	11.09	-0.08	442.83
MW-108	9/12/1997	453.92	11.20	-0.11	442.72
MW-108	9/18/1997	453.92	11.20	0.00	442.72
MW-108	9/26/1997	453.92	11.24	-0.04	442.68
MW-108	2/18/1998	453.92	3.20	8.04	450.72
MW-108	5/28/1998	453.92	8.31	-5.11	445.61
MW-108	7/16/1998	453.92	8.15	0.16	445.77
MW-108	4/28/1999	453.92	5.01	3.14	448.91
MW-108	8/10/1999	453.92	11.50	-6.49	442.42
MW-109	2/18/1998	462.46	7.30	NA	455.16
MW-109	5/28/1998	462.46	6.31	0.99	456.15
MW-109	7/16/1998	462.46	8.02	-1.71	454.44

Change in water elevation is since last reported measurement.
Measurements are based on Mean Sea Level.
D = Well was dry
NA = Not applicable since well was dry.

TABLE 1
HISTORICAL WATER ELEVATION DATA
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK
DELTA PROJECT NO. S096-015

PERIOD: From 10/22/1996 thru 08/11/1999 - Inclusive

SITE	DATE	MP ELEVATION (feet)	DEPTH TO WATER (feet)	Δ WATER ELEV (feet)	WATER ELEV (feet)
MW-109	4/28/1999	462.46	7.34	0.68	455.12
MW-109	8/10/1999	462.46	10.45	-3.11	452.01
MW-110	2/18/1998	458.00	9.20	NA	448.80
MW-110	5/28/1998	458.00	10.40	-1.20	447.60
MW-110	7/16/1998	458.00	D	NA	NA
MW-110	4/28/1999	458.00	9.67	-9.67	448.33
MW-110	8/10/1999	458.00	D	NA	NA
MW-111	2/18/1998	453.19	5.40	NA	447.79
MW-111	5/28/1998	453.19	6.60	-1.20	446.59
MW-111	7/16/1998	453.19	6.30	0.30	446.89
MW-111	4/28/1999	453.19	5.75	0.55	447.44
MW-111	8/10/1999	453.19	9.72	-3.97	443.47
MW-112	4/28/1999	459.97	11.98	NA	447.99
MW-112	8/10/1999	459.97	13.30	-1.32	446.67
MW-113	4/28/1999	461.22	11.51	NA	449.71
MW-113	8/11/1999	461.22	13.85	-2.34	447.37
MW-201	8/15/1997	465.75	16.06	NA	449.69
MW-201	8/22/1997	465.75	15.89	0.17	449.86
MW-201	8/29/1997	465.75	16.25	-0.36	449.50
MW-201	9/5/1997	465.75	16.00	0.25	449.75
MW-201	9/12/1997	465.75	15.91	0.09	449.84
MW-201	9/18/1997	465.75	16.24	-0.33	449.51

Change in water elevation is since last reported measurement.
Measurements are based on Mean Sea Level.
D = Well was dry
NA = Not applicable since well was dry.

TABLE 1
HISTORICAL WATER ELEVATION DATA
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK
DELTA PROJECT NO. S096-015

PERIOD: From 10/22/1996 thru 08/11/1999 - Inclusive

SITE	DATE	MP ELEVATION (feet)	DEPTH TO WATER (feet)	Δ WATER ELEV (feet)	WATER ELEV (feet)
MW-201	9/26/1997	465.75	16.09	0.15	449.66
MW-201	2/18/1998	465.75	13.90	2.19	451.85
MW-201	5/28/1998	465.75	15.23	-1.33	450.52
MW-201	7/16/1998	465.75	14.89	0.34	450.86
MW-201	4/28/1999	465.75	14.53	0.36	451.22
MW-201	8/10/1999	465.75	16.35	-1.82	449.40
MW-202	8/15/1997	462.76	14.43	NA	448.33
MW-202	8/22/1997	462.76	14.27	0.16	448.49
MW-202	8/29/1997	462.76	14.46	-0.19	448.30
MW-202	9/5/1997	462.76	14.30	0.16	448.46
MW-202	9/12/1997	462.76	14.29	0.01	448.47
MW-202	9/18/1997	462.76	14.53	-0.24	448.23
MW-202	9/26/1997	462.76	14.39	0.14	448.37
MW-202	2/18/1998	462.76	12.30	2.09	450.46
MW-202	5/28/1998	462.76	13.41	-1.11	449.35
MW-202	7/16/1998	462.76	13.09	0.32	449.67
MW-202	4/28/1999	462.76	12.66	0.43	450.10
MW-202	8/10/1999	462.76	14.64	-1.98	448.12
MW-203	8/15/1997	453.54	21.54	NA	432.00
MW-203	8/22/1997	453.54	21.03	0.51	432.51
MW-203	8/29/1997	453.54	20.29	0.74	433.25
MW-203	9/5/1997	453.54	19.63	0.66	433.91
MW-203	9/12/1997	453.54	19.06	0.57	434.48
MW-203	9/18/1997	453.54	18.51	0.55	435.03
MW-203	9/26/1997	453.54	18.01	0.50	435.53

Change in water elevation is since last reported measurement.
Measurements are based on Mean Sea Level.
D = Well was dry
NA = Not applicable since well was dry.

TABLE 1
HISTORICAL WATER ELEVATION DATA
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK
DELTA PROJECT NO. S096-015

PERIOD: From 10/22/1996 thru 08/11/1999 - Inclusive

SITE	DATE	MP ELEVATION (feet)	DEPTH TO WATER (feet)	Δ WATER ELEV (feet)	WATER ELEV (feet)
MW-203	2/18/1998	453.54	8.40	9.61	445.14
MW-203	5/28/1998	453.54	10.00	-1.60	443.54
MW-203	7/16/1998	453.54	8.62	1.38	444.92
MW-203	4/28/1999	453.54	6.64	1.98	446.90
MW-203	8/10/1999	453.54	12.00	-5.36	441.54
P-101	8/15/1997	462.16	13.22	NA	448.94
P-101	8/22/1997	462.16	13.11	0.11	449.05
P-101	8/29/1997	462.16	13.49	-0.38	448.67
P-101	9/5/1997	462.16	13.22	0.27	448.94
P-101	9/12/1997	462.16	13.16	0.06	449.00
P-101	9/18/1997	462.16	13.48	-0.32	448.68
P-101	9/26/1997	462.16	13.26	0.22	448.90
P-101	7/16/1998	462.16	O	NA	NA
P-101	4/28/1999	462.16	11.65	-11.65	450.51
P-101	8/10/1999	462.16	13.52	-1.87	448.64
STREAM-A	8/15/1997	447.39	2.24	NA	445.15
STREAM-A	8/22/1997	447.39	2.12	0.12	445.27
STREAM-A	8/29/1997	447.39	2.19	-0.07	445.20
STREAM-A	9/5/1997	447.39	2.20	-0.01	445.19
STREAM-A	9/12/1997	447.39	2.10	0.10	445.29
STREAM-A	9/18/1997	447.39	2.19	-0.09	445.20
STREAM-A	9/26/1997	447.39	1.96	0.23	445.43
STREAM-A	2/18/1998	447.39	1.30	0.66	446.09
STREAM-A	5/28/1998	447.39	2.00	-0.70	445.39
STREAM-A	7/16/1998	447.39	1.98	0.02	445.41

Change in water elevation is since last reported measurement.
Measurements are based on Mean Sea Level.
D = Well was dry
NA = Not applicable since well was dry.

TABLE 1
HISTORICAL WATER ELEVATION DATA
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK
DELTA PROJECT NO. S096-015

PERIOD: From 10/22/1996 thru 08/11/1999 - Inclusive

SITE	DATE	MP ELEVATION (feet)	DEPTH TO WATER (feet)	Δ WATER ELEV (feet)	WATER ELEV (feet)
STREAM-A	4/28/1999	447.39	1.82	0.16	445.57
STREAM-A	8/10/1999	447.39	2.01	-0.19	445.38
STREAM-B	8/15/1997	447.97	2.74	NA	445.23
STREAM-B	8/22/1997	447.97	2.63	0.11	445.34
STREAM-B	8/29/1997	447.97	2.74	-0.11	445.23
STREAM-B	9/5/1997	447.97	2.49	0.25	445.48
STREAM-B	9/12/1997	447.97	2.61	-0.12	445.36
STREAM-B	9/18/1997	447.97	2.71	-0.10	445.26
STREAM-B	9/26/1997	447.97	2.48	0.23	445.49
STREAM-B	2/18/1998	447.97	1.28	1.20	446.69
STREAM-B	5/28/1998	447.97	2.56	-1.28	445.41
STREAM-B	7/16/1998	447.97	2.45	0.11	445.52
STREAM-B	4/28/1999	447.97	2.10	0.35	445.87
STREAM-B	8/10/1999	447.97	3.51	-1.41	444.46
STREAM-C	5/28/1998	450.32	1.77	NA	448.55
STREAM-C	7/16/1998	450.32	1.45	0.32	448.87
STREAM-C	4/28/1999	450.32	1.32	0.13	449.00
STREAM-C	8/10/1999	450.32	1.70	-0.38	448.62

Change in water elevation is since last reported measurement.
Measurements are based on Mean Sea Level.
D = Well was dry
NA = Not applicable since well was dry.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
APRIL 1999
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 04/27/1999 thru 04/28/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Acetone (mg/l)	Chloroform (mg/l)	Benzene (mg/l)	1,1,1-trichloro ethane (mg/l)	Vinyl chloride (mg/l)	Methylene chloride (mg/l)	1,1-Dichloro ethene (mg/l)
WQS		0.05	0.007	0.001	0.005	0.002	0.005	0.005
MW-101	04/27/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.01]	<0.003
MW-102	04/27/1999	0.024	0.004	<0.003	<0.003	[0.13]	[0.005]	<0.003
MW-103	04/27/1999	0.014	<0.003	<0.003	<0.003	<0.002	[0.01]	<0.003
MW-104	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.002	0.003	<0.003
MW-108	04/28/1999	0.013	<0.003	<0.003	<0.003	<0.002	<0.003	<0.003
MW-109	04/27/1999	<0.01	0.004	<0.003	[0.087]	[0.01]	0.004	[0.015]
MW-111	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.002	<0.003	[0.009]
MW-112	04/28/1999	<0.01	<0.003	<0.003	[0.075]	[0.11]	[0.006]	[0.015]
MW-113	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.01]	<0.003
MW-201	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.009]	<0.003
MW-202	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.002	<0.003	<0.003
MW-203	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.013]	<0.003
SW-1	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.014]	<0.003
SW-2	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.01]	<0.003
SW-3	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.01]	<0.003

WQS= DEC Class GA Standard
[]=Greater than Action Level ---=Not analyzed
Acetone and methylene chloride were laboratory introduced.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
APRIL 1999
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 04/27/1999 thru 04/28/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Trichloroethene (mg/l)	Toluene (mg/l)	Tetrachloroethene (mg/l)	cis-1,2-Dichloroethene (mg/l)	trans-1,2-Dichloroethene (mg/l)	1,1-Dichloroethane (mg/l)	Xylene (total) (mg/l)
WQS		0.005	0.005	0.005	0.005	0.005	0.005	0.005
MW-101	04/27/1999	[0.006]	<0.003	[0.026]	<0.003	<0.003	<0.003	<0.003
MW-102	04/27/1999	[0.13]	<0.003	<0.003	[0.093]	0.004	[0.1]	<0.003
MW-103	04/27/1999	[0.005]	<0.003	[0.007]	0.004	<0.003	<0.003	<0.003
MW-104	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-108	04/28/1999	<0.003	<0.003	0.004	<0.003	<0.003	<0.003	<0.003
MW-109	04/27/1999	[0.097]	<0.003	[0.11]	[0.083]	<0.003	[0.031]	[0.015]
MW-111	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	[0.018]	<0.003
MW-112	04/28/1999	[0.096]	<0.003	[0.029]	[0.19]	<0.003	[0.12]	<0.003
MW-113	04/28/1999	<0.003	<0.003	<0.003	0.004	<0.003	[0.096]	<0.003
MW-201	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-202	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-203	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003
SW-1	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
SW-2	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
SW-3	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

WQS= DEC Class GA Standard
[]=Greater than Action Level ---=Not analyzed
Acetone and methylene chloride were laboratory introduced.

TABLE 3
GROUND WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
AUGUST 1999
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 08/10/1999 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Acetone (mg/l)	Chloroform (mg/l)	Benzene (mg/l)	1,1,1-trichloro ethane (mg/l)	Vinyl chloride (mg/l)	Methylene chloride (mg/l)	1,1-Dichloro ethene (ug/l)
WQS		0.05	0.007	0.001	0.005	0.002	0.005	5
MW-102	08/10/1999	0.031	<0.003	[0.007]	[0.011]	[0.043]	[0.014]	<3
MW-102A	08/11/1999	0.02	0.003	<0.003	[0.023]	[0.075]	[0.013]	[7]
MW-109	08/11/1999	<0.01	0.006	<0.003	[0.11]	[0.024]	[0.015]	[20]
MW-111	08/11/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.013]	[37]
MW-112	08/11/1999	<1	<0.3	<0.3	[0.8]	<0.2	[0.49]	<300
MW-113	08/11/1999	<0.01	<0.003	<0.003	[0.028]	[0.11]	[0.013]	[21]
MW-201	08/10/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.013]	<3
MW-202	08/10/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.013]	<3
MW-203	08/11/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.015]	<3
SW-1	08/11/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.006]	<3
SW-2	08/11/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.007]	<3
SW-3	08/11/1999	<0.01	<0.003	<0.003	<0.003	<0.002	[0.008]	<3

WQS= DEC Class GA Standard
[]=Greater than Action Level ---=Not analyzed
Acetone and methylene chloride were laboratory introduced.

TABLE 3
GROUND WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
AUGUST 1999
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 08/10/1999 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Trichloro ethylene (mg/l)	Toluene (mg/l)	Tetrachloro ethene (mg/l)	cis-1,2-Dichloroethene (mg/l)	trans-1,2-Dichloroethene (mg/l)	1,1-Dichloro ethane (mg/l)	Xylene (total) (mg/l)
WQS		0.005	0.005	0.005	0.005	0.005	0.005	0.005
MW-102	08/10/1999	[0.063]	[0.005]	<0.003	[0.031]	0.003	[0.11]	<0.006
MW-102A	08/11/1999	[0.17]	<0.003	[0.04]	[0.2]	<0.003	[0.12]	<0.006
MW-109	08/11/1999	[0.14]	<0.003	[0.22]	[0.12]	<0.003	[0.035]	<0.006
MW-111	08/11/1999	[0.005]	<0.003	<0.003	[0.007]	<0.003	[0.053]	<0.006
MW-112	08/11/1999	[0.59]	<0.3	[5.3]	[0.5]	<0.3	[4.7]	<0.6
MW-113	08/11/1999	[0.12]	<0.003	[0.02]	[0.15]	<0.003	[0.16]	<0.006
MW-201	08/10/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.006
MW-202	08/10/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.006
MW-203	08/11/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.006
SW-1	08/11/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.006
SW-2	08/11/1999	<0.003	<0.003	<0.003	0.004	<0.003	[0.007]	<0.006
SW-3	08/11/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.006

WQS= DEC Class GA Standard
[]=Greater than Action Level ---=Not analyzed
Acetone and methylene chloride were laboratory introduced.

TABLE 4
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
APRIL 1999
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 04/27/1999 thru 04/28/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Alkalinity (as CaCO3) (mg/l)	Ammonia (as N) (mg/l)	Sulfate (mg/l)	Sulfide (mg/l)	Chloride (mg/l)	Soluble Iron (mg/l)	Oxidation Reduction Potential (mV)
MW-101	04/27/1999	300	0.6	91	<0.1	8	6.6	-42.4
MW-102	04/27/1999	2000	1.5	170	<0.1	410	2.7	-82.4
MW-103	04/27/1999	350	6.0	97	<0.1	37	1.9	102.5
MW-104	04/28/1999	---	---	---	---	---	---	12.50
MW-105	04/28/1999	560	3.5	67	<0.1	34	0.06	126.6
MW-106	04/28/1999	460	2.2	24	<0.1	3	0.09	---
MW-107	04/27/1999	240	<0.5	30	<0.1	2	0.15	---
MW-108	04/28/1999	490	0.6	41	<0.1	10	0.11	159.1
MW-109	04/27/1999	---	---	---	---	---	---	194.5
MW-112	04/28/1999	600	2.2	130	<0.1	98	0.21	-2.70
MW-113	04/28/1999	390	<0.5	130	<0.1	74	1.2	-142.7
MW-201	04/28/1999	340	0.6	100	<0.1	23	0.08	21.3
MW-202	04/28/1999	220	<0.5	79	<0.1	27	0.04	140.0
MW-203	04/28/1999	---	---	---	---	---	---	190.1
SW-1	04/28/1999	---	---	---	---	---	---	---
SW-2	04/28/1999	---	---	---	---	---	---	---
SW-3	04/28/1999	---	---	---	---	---	---	---

---=Not analyzed

TABLE 4
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
APRIL 1999
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 04/27/1999 thru 04/28/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	BOD (mg/l)	COD (mg/l)	Specific Conductivity (umho)	MBAS (mg/l)	Nitrate plus Nitrite (as N) (mg/l)	Temperature (C)	Total Residual Chlorine (mg/l)
MW-101	04/27/1999	6	47	519	0.11	<0.2	8.97	0.04
MW-102	04/27/1999	11	250	3072	1.0	<0.2	9.51	0.09
MW-103	04/27/1999	12	110	963.0	1.1	<0.2	12.29	0.04
MW-104	04/28/1999	---	---	365.0	<0.05	---	10.89	---
MW-105	04/28/1999	<4	<20	882.0	---	<0.2	11.94	0.03
MW-106	04/28/1999	<4	<20	---	---	<0.2	---	0.02
MW-107	04/27/1999	<4	<20	---	---	0.2	---	0.02
MW-108	04/28/1999	<4	<20	614.0	<0.65	<0.2	8.78	0.04
MW-109	04/27/1999	---	---	1623	0.56	---	10.97	---
MW-112	04/28/1999	<4	40	1249	0.11	<0.2	10.75	0.04
MW-113	04/28/1999	<4	120	584.0	<0.05	<0.2	10.58	0.04
MW-201	04/28/1999	<4	<20	601	<0.05	<0.2	12.40	0.06
MW-202	04/28/1999	4	30	1121	<0.05	0.55	11.80	0.06
MW-203	04/28/1999	---	---	529.0	<0.05	---	11.83	---
SW-1	04/28/1999	---	---	---	<0.05	---	---	---
SW-2	04/28/1999	---	---	---	<0.05	---	---	---
SW-3	04/28/1999	---	---	---	0.07	---	---	---

---=Not analyzed

TABLE 4
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
APRIL 1999
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 04/27/1999 thru 04/28/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Oxygen, dissolved (mg/l)	pH	TDS (mg/l)	Sodium (mg/l)
MW-101	04/27/1999	2.31	7.15	500	20
MW-102	04/27/1999	7.61	7.62	3300	510
MW-103	04/27/1999	3.21	7.91	870	160
MW-104	04/28/1999	0.95	7.69	---	---
MW-105	04/28/1999	3.67	6.69	750	99
MW-106	04/28/1999	---	---	420	31
MW-107	04/27/1999	---	---	310	5.4
MW-108	04/28/1999	2.17	6.83	510	32
MW-109	04/27/1999	6.3	7.01	---	---
MW-112	04/28/1999	1.80	7.24	880	170
MW-113	04/28/1999	1.55	7.77	700	50
MW-201	04/28/1999	3.81	7.81	510	49
MW-202	04/28/1999	3.87	11.97	440	74
MW-203	04/28/1999	1.91	7.62	---	---
SW-1	04/28/1999	---	---	---	---
SW-2	04/28/1999	---	---	---	---
SW-3	04/28/1999	---	---	---	---

---=Not analyzed

TABLE 5
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
AUGUST 1999
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 08/10/1999 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Alkalinity (as CaCO3) (mg/l)	Ammonia (as N) (mg/l)	Sulfate (mg/l)	Chloride (mg/l)	Soluble Iron (mg/l)	Oxidation Reduction Potential (mV)	BOD (mg/l)
MW-101	08/10/1999	620	2.2	140	15	30	-147.9	11
MW-102	08/10/1999	1700	2.2	240	240	2.2	-157.1	26
MW-102A	08/11/1999	---	---	---	---	---	---	---
MW-109	08/11/1999	---	<0.5	---	---	---	152	<4
MW-112	08/11/1999	480	<0.5	140	76	0.06	41.7	12
MW-113	08/11/1999	410	<0.5	150	97	2.3	-1.0	<4
MW-201	08/10/1999	---	---	---	---	---	-132	---
MW-202	08/10/1999	---	---	---	---	---	6.8	---
MW-203	08/11/1999	---	---	---	---	---	51.4	---
SW-1	08/11/1999	---	---	---	---	---	---	---
SW-2	08/11/1999	---	---	---	---	---	---	---
SW-3	08/11/1999	---	---	---	---	---	---	---

---=Not analyzed

TABLE 5
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
AUGUST 1999
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 08/10/1999 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	COD (mg/l)	Specific Conductivity (umho)	MBAS (mg/l)	Temperature (C)	Total Residual Chlorine (mg/l)	Oxygen, dissolved (mg/l)	pH
MW-101	08/10/1999	130	911	---	13.9	0.00	1.71	6.82
MW-102	08/10/1999	180	2589	0.82	14.7	0.10	4.7	7.23
MW-102A	08/11/1999	---	---	0.16	---	---	---	---
MW-109	08/11/1999	<0.05	2210	0.53	14.85	0.10	6.8	6.63
MW-112	08/11/1999	<20	1041	<0.05	12.38	0.7	0.78	7.20
MW-113	08/11/1999	63	1892	0.52	12.35	1.0	6.0	7.16
MW-201	08/10/1999	---	704	<0.05	12.89	0.05	1.3	7.27
MW-202	08/10/1999	---	597	<0.05	13.81	0.16	1.5	10.12
MW-203	08/11/1999	---	708	<0.05	14.44	0.01	1.16	8.09
SW-1	08/11/1999	---	---	0.14	---	---	---	---
SW-2	08/11/1999	---	---	0.12	---	---	---	---
SW-3	08/11/1999	---	---	0.12	---	---	---	---

---=Not analyzed

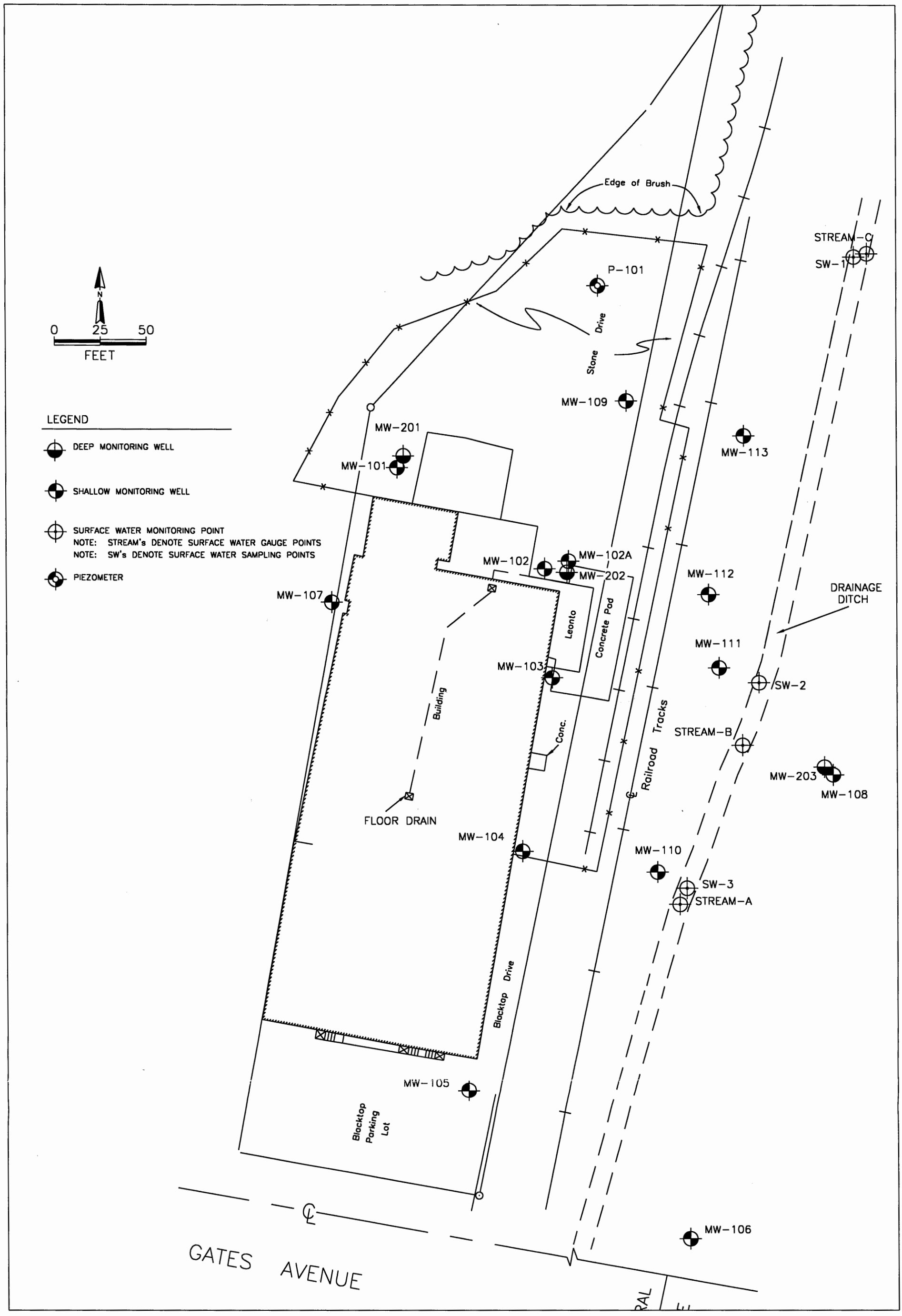
TABLE 5
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
AUGUST 1999
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 08/10/1999 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

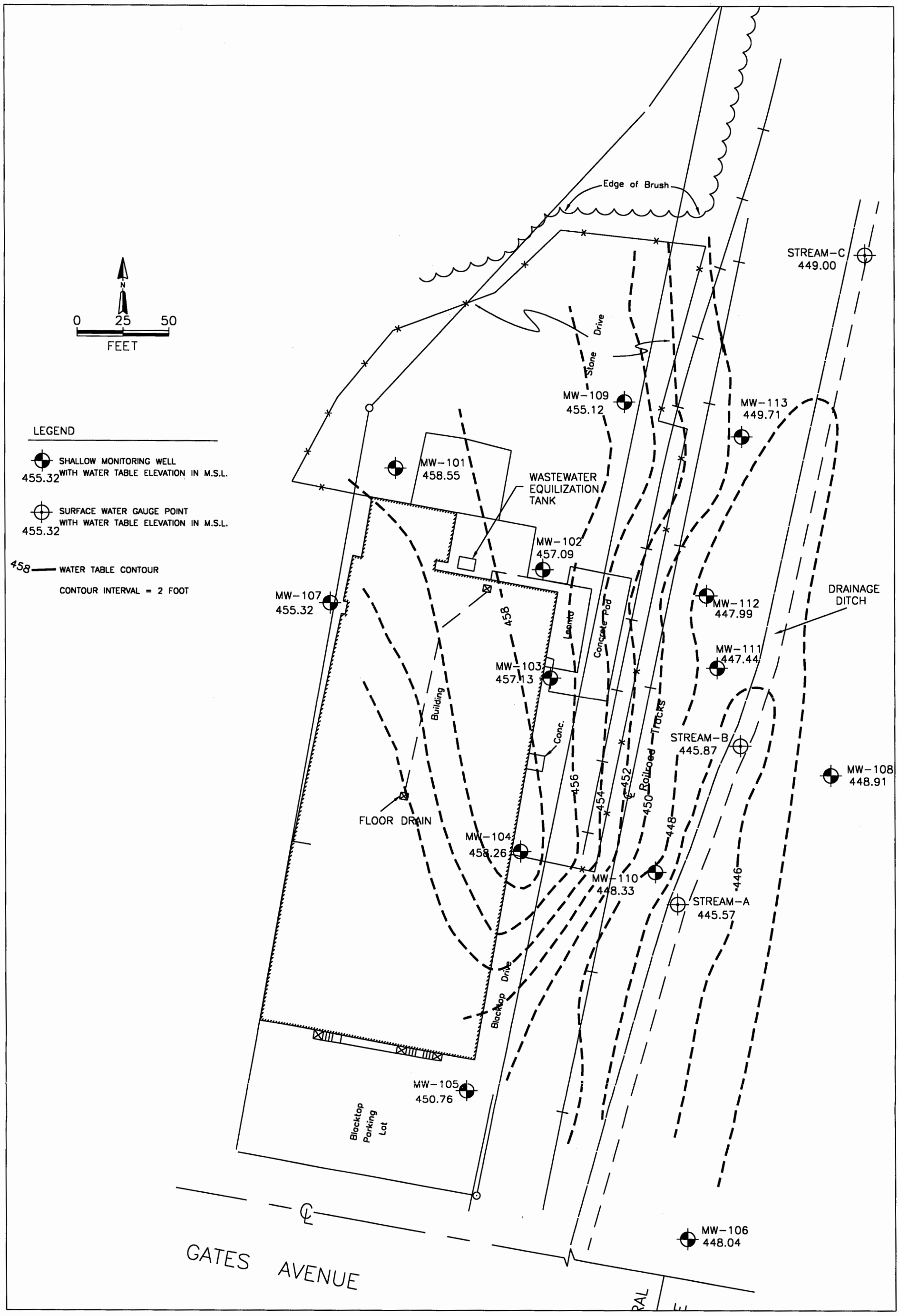
SITE	DATE	TDS (mg/l)	Sodium (mg/l)
MW-101	08/10/1999	860	50
MW-102	08/10/1999	2400	480
MW-102A	08/11/1999	---	---
MW-109	08/11/1999	---	240
MW-112	08/11/1999	650	49
MW-113	08/11/1999	1000	230
MW-201	08/10/1999	---	---
MW-202	08/10/1999	---	---
MW-203	08/11/1999	---	---
SW-1	08/11/1999	---	---
SW-2	08/11/1999	---	---
SW-3	08/11/1999	---	---

---=Not analyzed

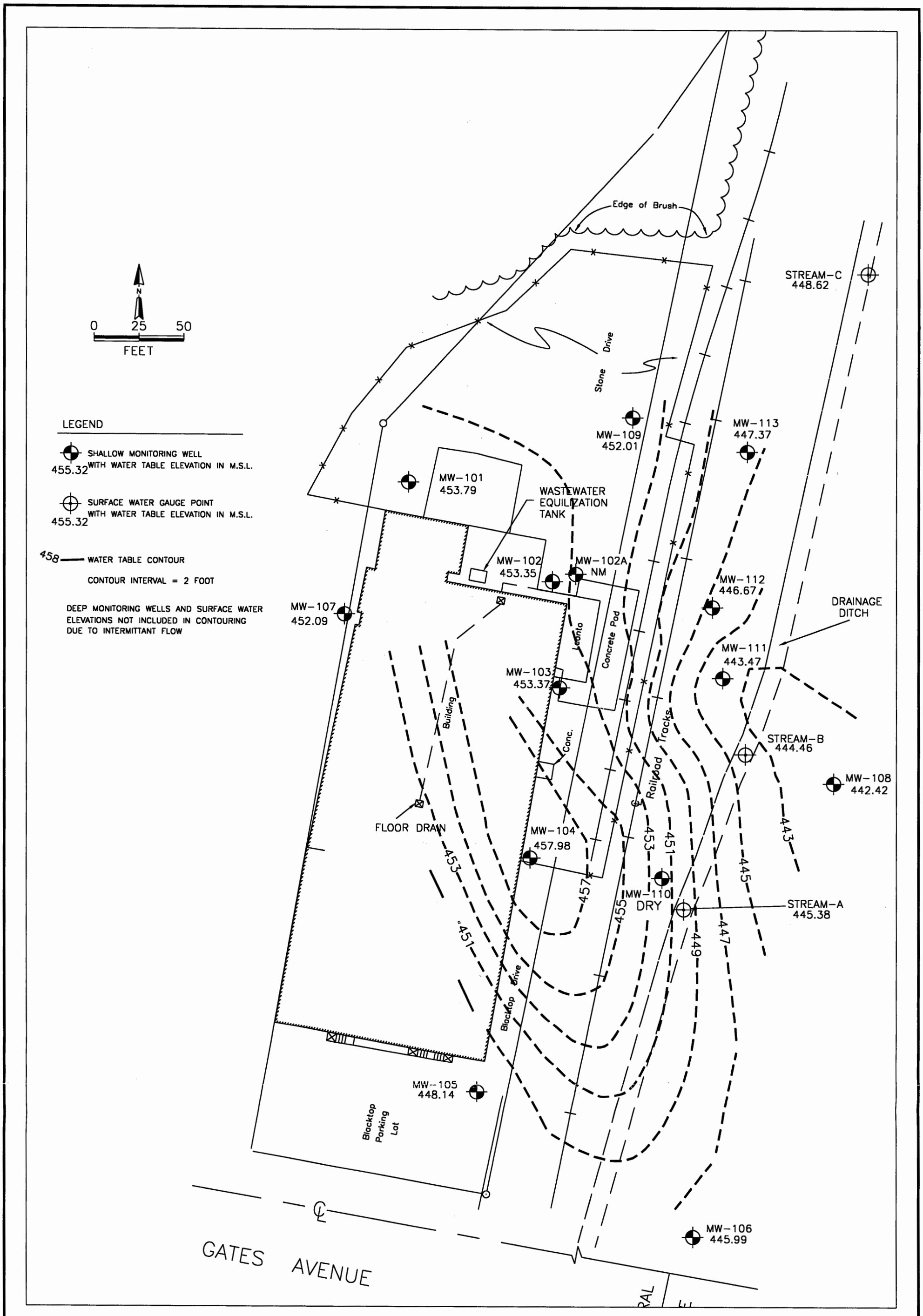
FIGURES



Delta Environmental Consultants, Inc.	TITLE: SITE MAP FORMER MONARCH CHEMICAL FACILITY GENEVA, NEW YORK	DWN: HLW	DES.:	PROJECT NO.: S096-015
		CHKD:	APPD:	
		DATE: 10/05/99	REV.:	FIGURE NO.: 1

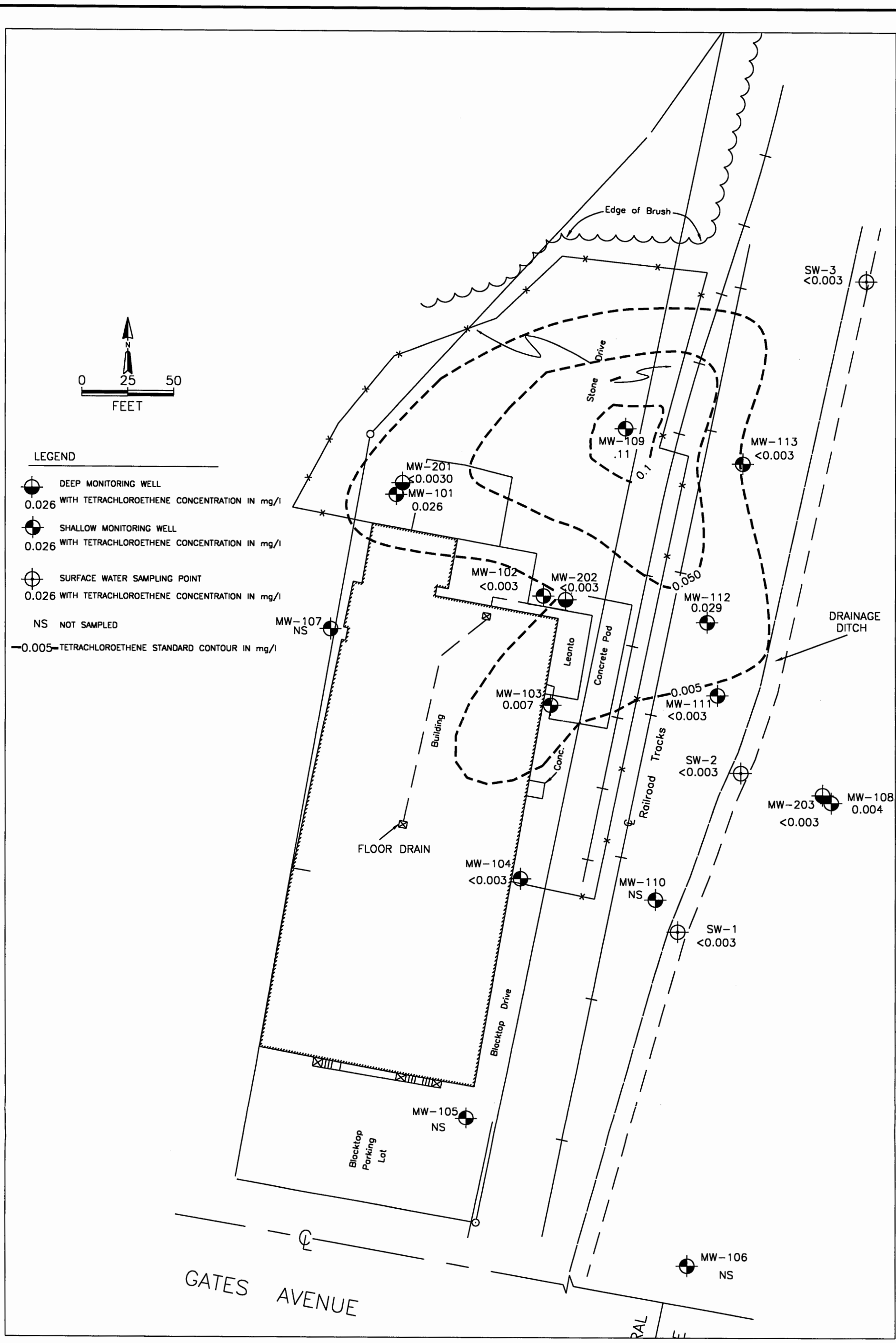


Delta Environmental Consultants, Inc.	TITLE: WATER TABLE CONTOUR MAP (APRIL 28,1999) FORMER MONARCH CHEMICAL FACILITY GENEVA, NEW YORK	DWN: HLW / DES.:	PROJECT NO.: S096-105	
		CHKD: / APPD:		
		DATE: 5/26/99 / REV.:	FIGURE NO.: 2	

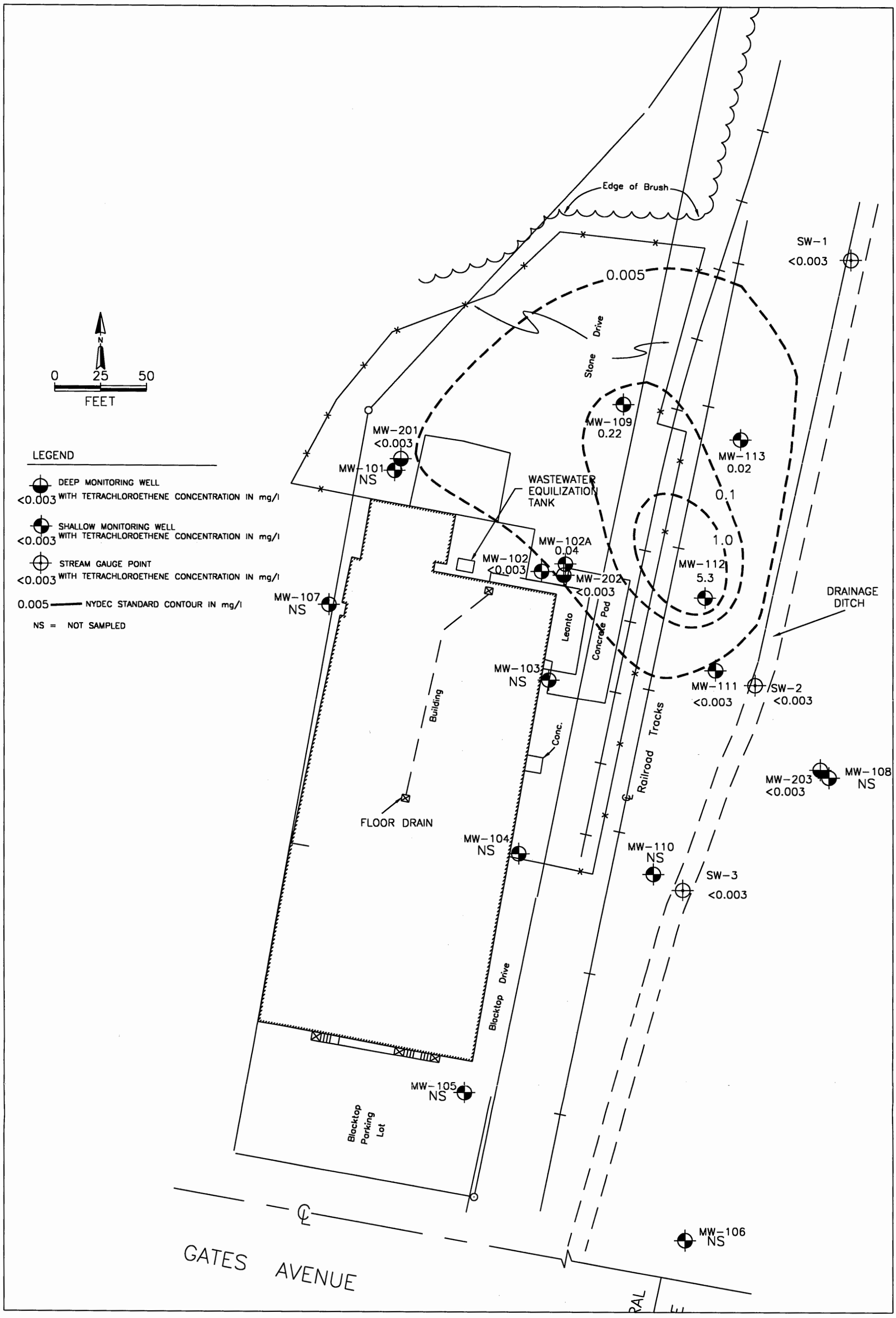


Delta Environmental Consultants, Inc.

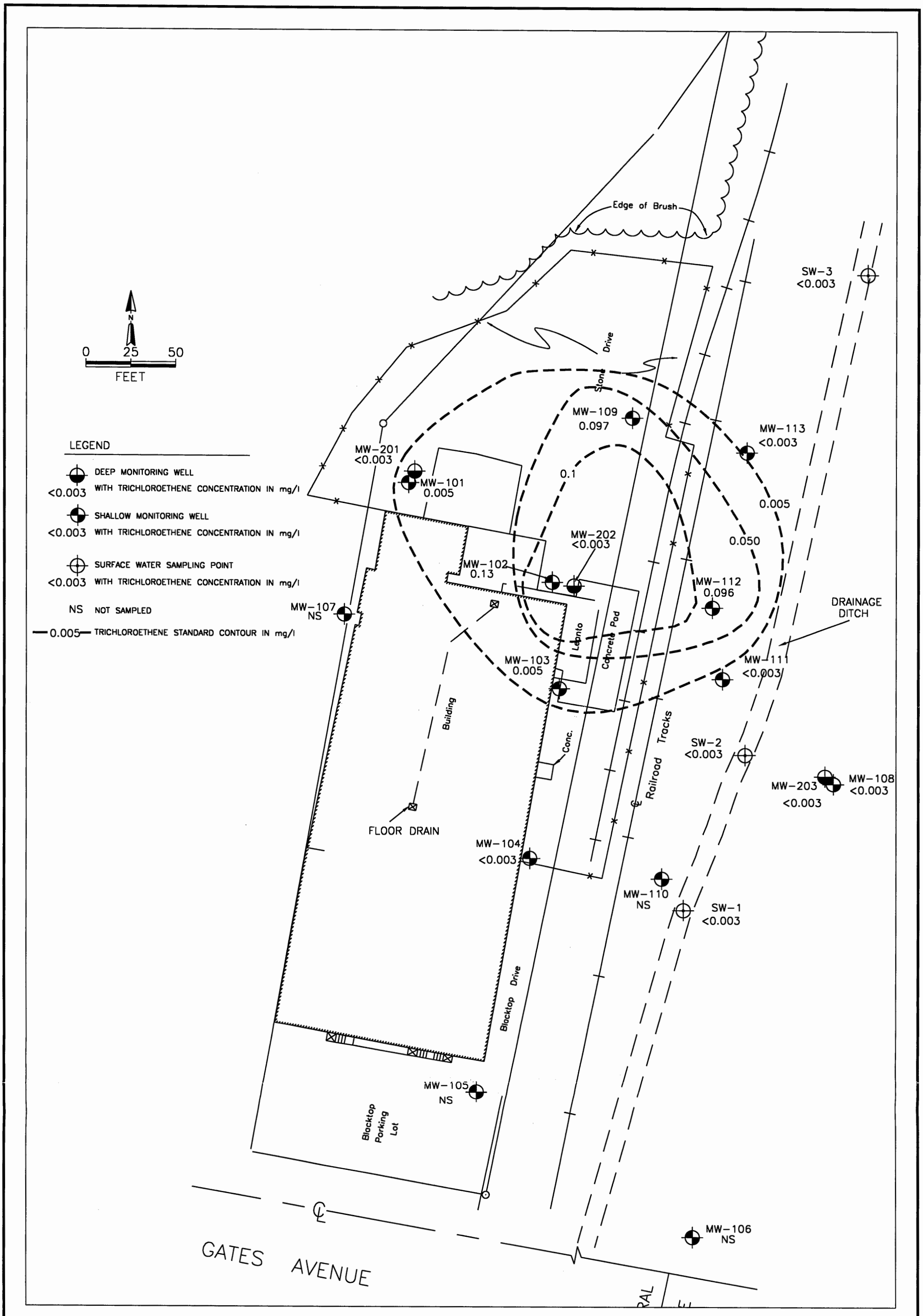
TITLE: WATER TABLE CONTOUR MAP (AUGUST 10, 1999) FORMER MONARCH CHEMICAL FACILITY GENEVA, NEW YORK	DWN: HLW	DES.:	PROJECT NO.: S096-015
	CHKD:	APPD:	FIGURE NO.: 3
	DATE: 5/15/99	REV.:	



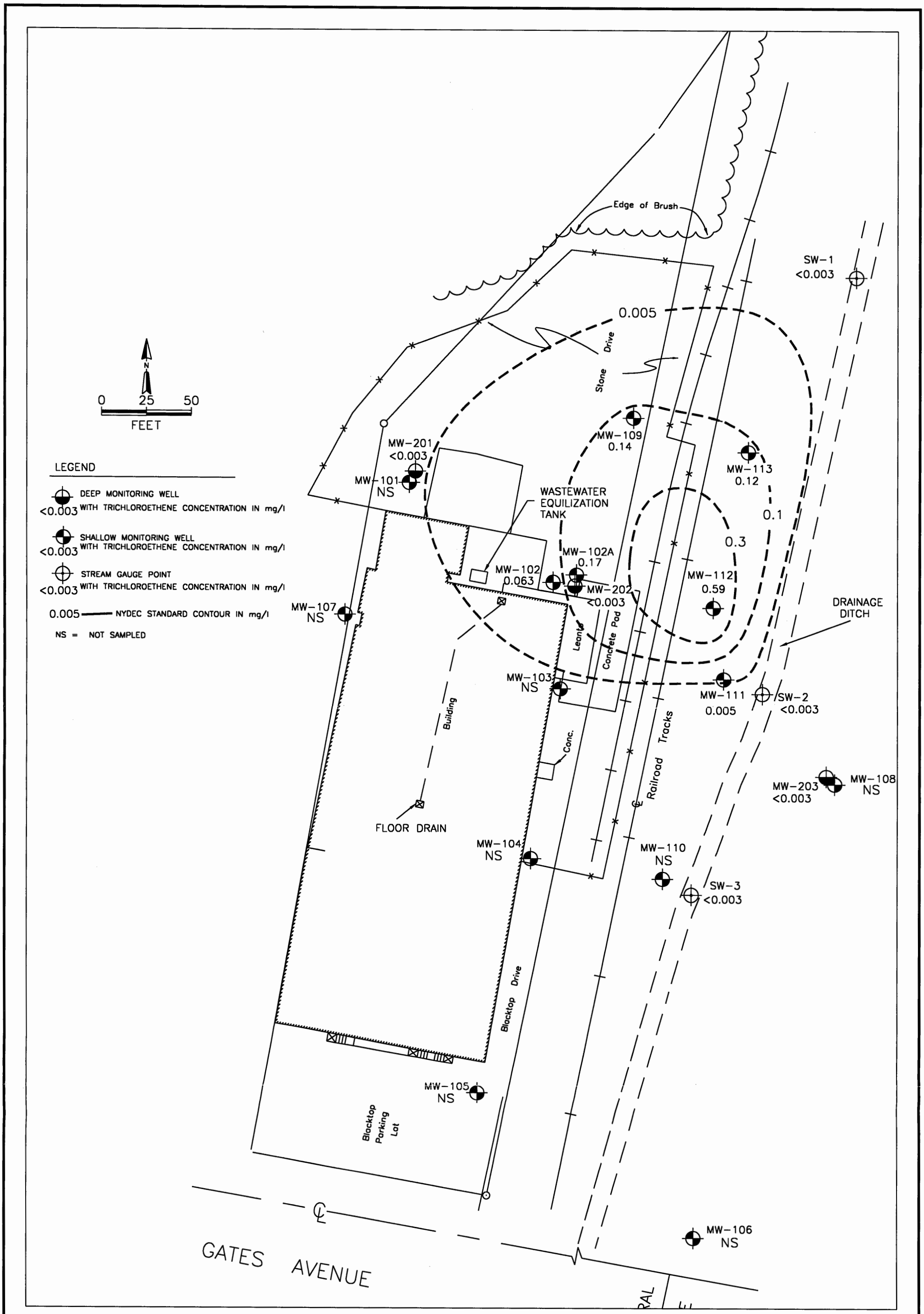
Delta Environmental Consultants, Inc.	TITLE: TETRACHLOROETHENE IN GROUND WATER (APRIL 1999) FORMER MONARCH CHEMICAL FACILITY GENEVA, NEW YORK	DWN: HLW	DES.:	PROJECT NO.: S096-015
		CHKD:	APPD:	FIGURE NO.: 4
		DATE: 5/26/99	REV.:	



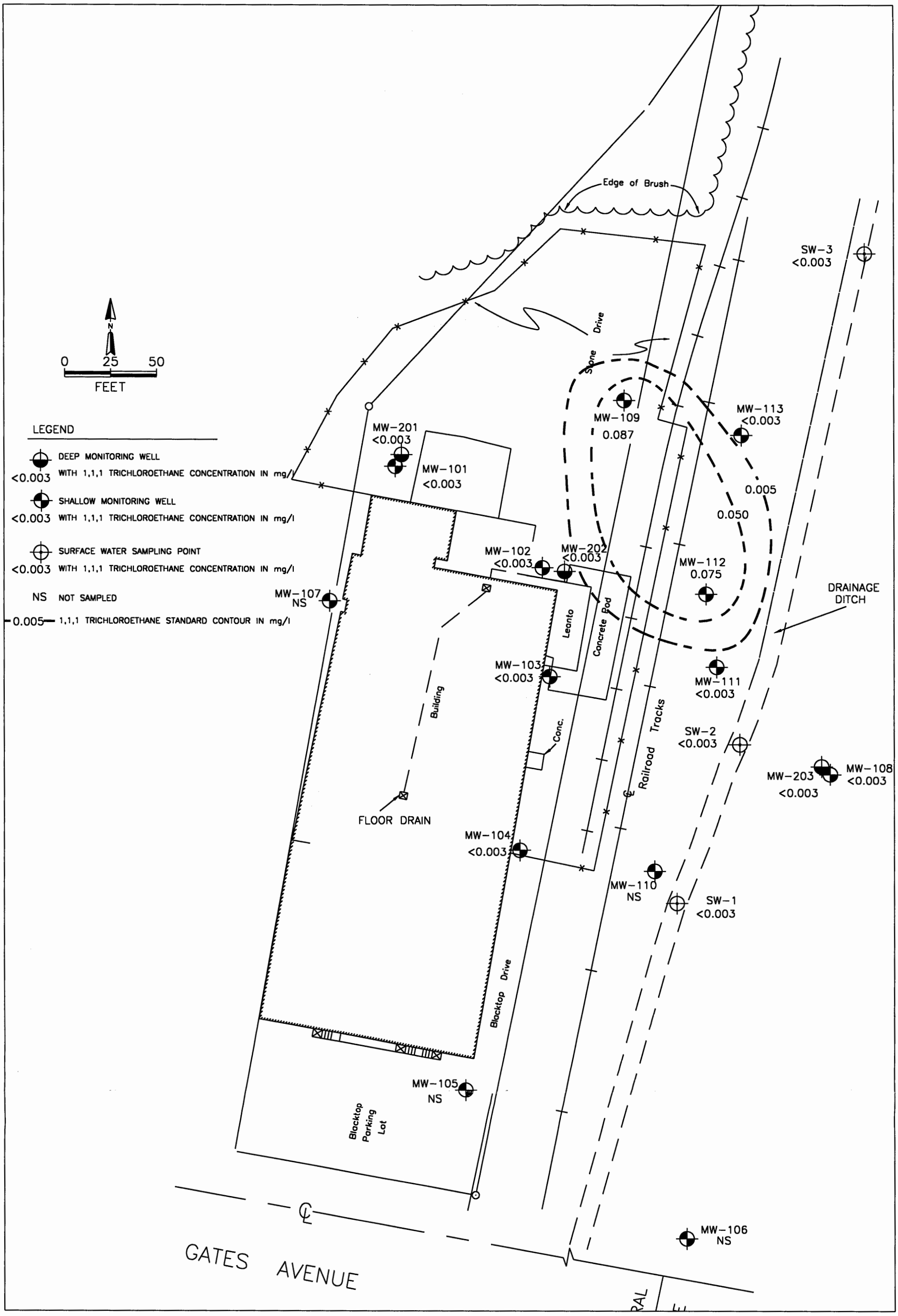
Delta Environmental Consultants, Inc.	TITLE: TETRACHLOROETHENE IN GROUND WATER (AUGUST 1999) FORMER MONARCH CHEMICAL FACILITY GENEVA, NEW YORK	DWN: HLW / DES.:	PROJECT NO.: S096-015	
		CHKD: / APPD:		
		DATE: 9/20/99 / REV.:	FIGURE NO.: 5	



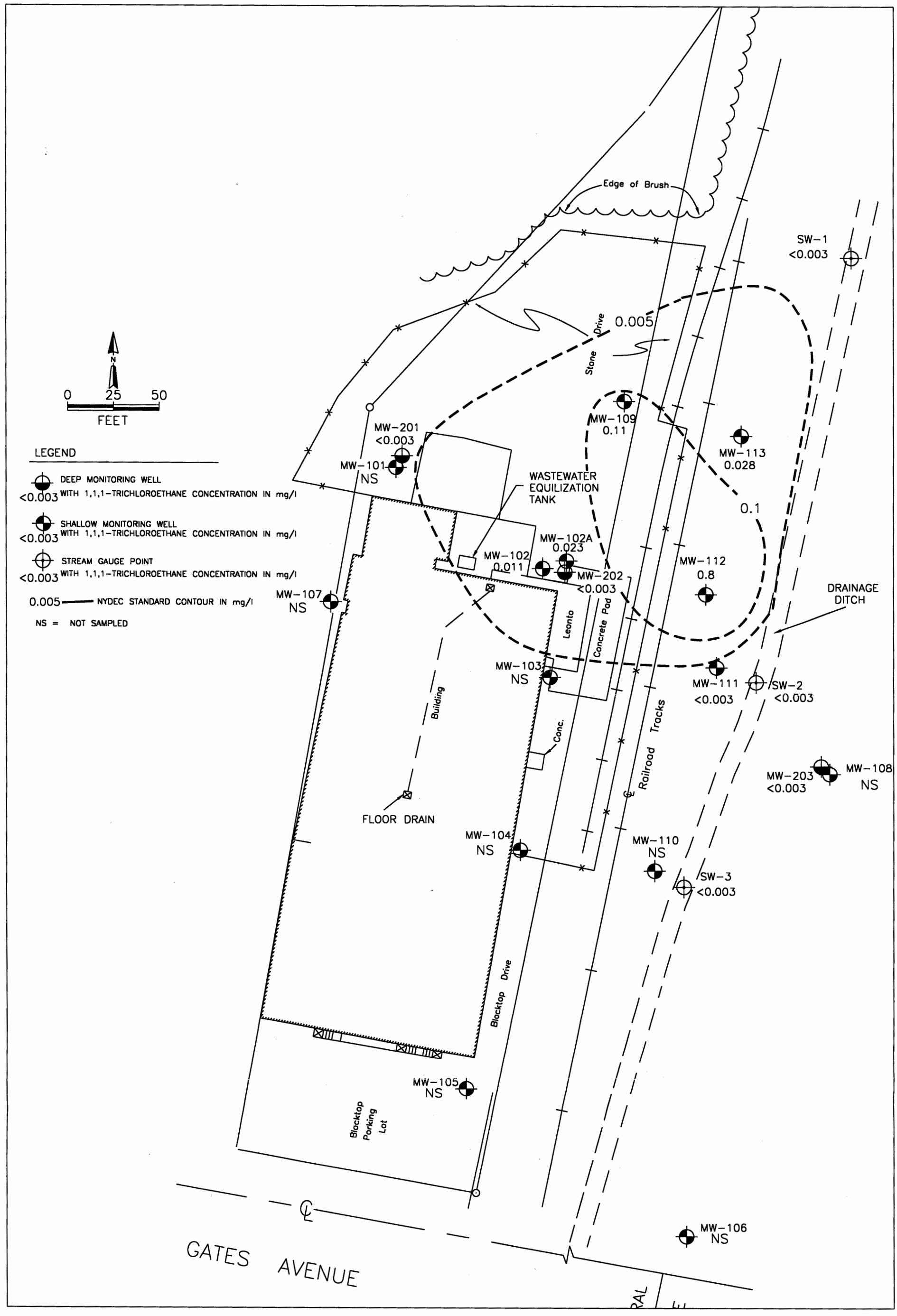
Delta Environmental Consultants, Inc.	TITLE: TRICHLOROETHENE IN GROUND WATER (APRIL 1999) FORMER MONARCH CHEMICAL FACILITY GENEVA, NEW YORK	DWN: HLW / DES.:	PROJECT NO.: S096-015
		CHKD: / APPD:	FIGURE NO.: 6
		DATE: 5/27/99 / REV.:	



Delta Environmental Consultants, Inc.	TITLE: TRICHLOROETHENE IN GROUND WATER (AUGUST 1999) FORMER MONARCH CHEMICAL FACILITY GENEVA, NEW YORK	DWN: HLW	DES.:	PROJECT NO.: S096-015
		CHKD:	APPD:	FIGURE NO.: 7
		DATE: 9/20/99	REV.:	



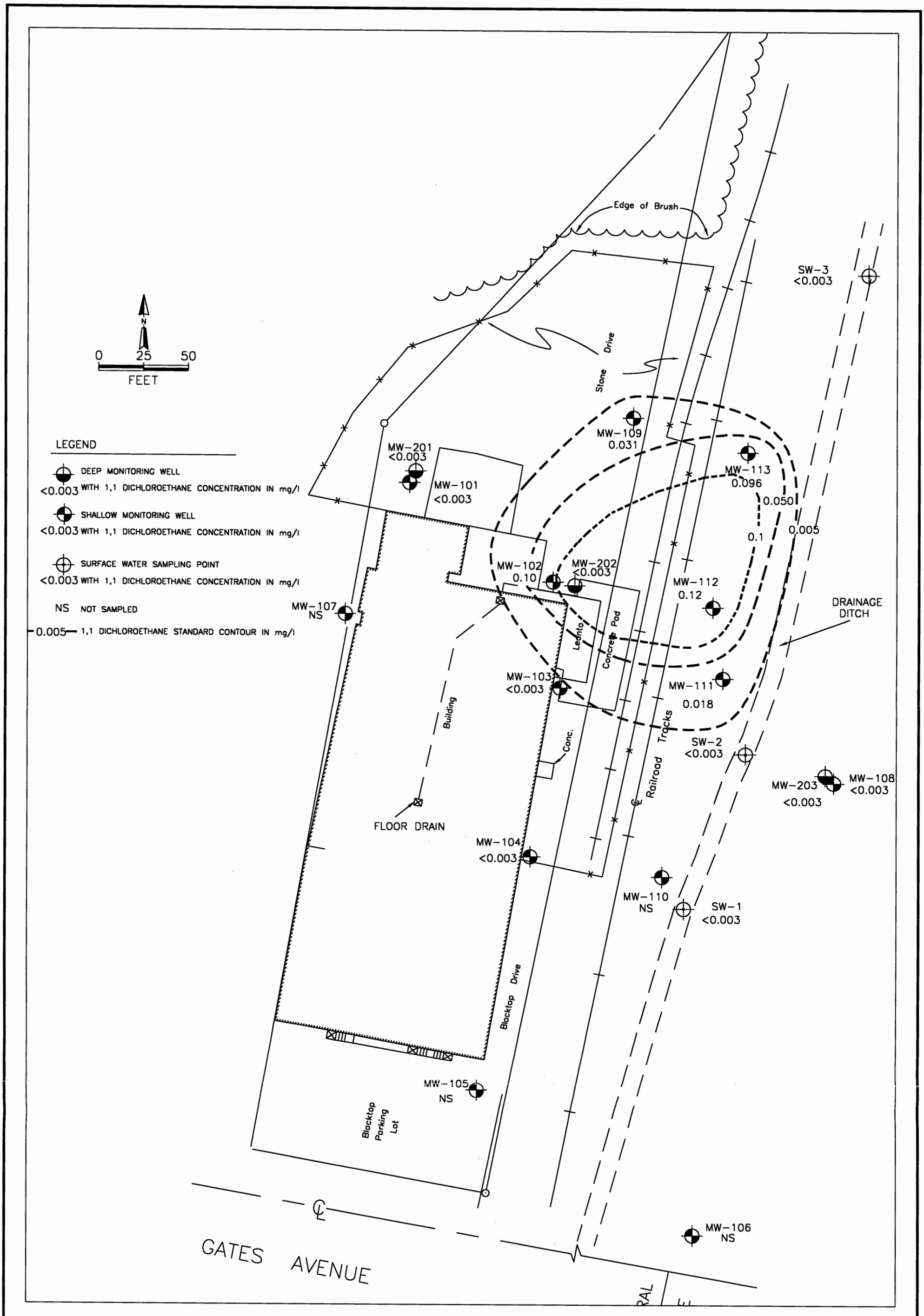
Delta Environmental Consultants, Inc.	TITLE: 1,1,1 TRICHLOROETHANE IN GROUND WATER (APRIL 1999) FORMER MONARCH CHEMICALS FACILITY GENEVA, NEW YORK	DWN: HLW / DES.:	PROJECT NO.: S096-015	
		CHKD: / APPD:		
		DATE: 5/27/99 / REV.:	FIGURE NO.: 8	



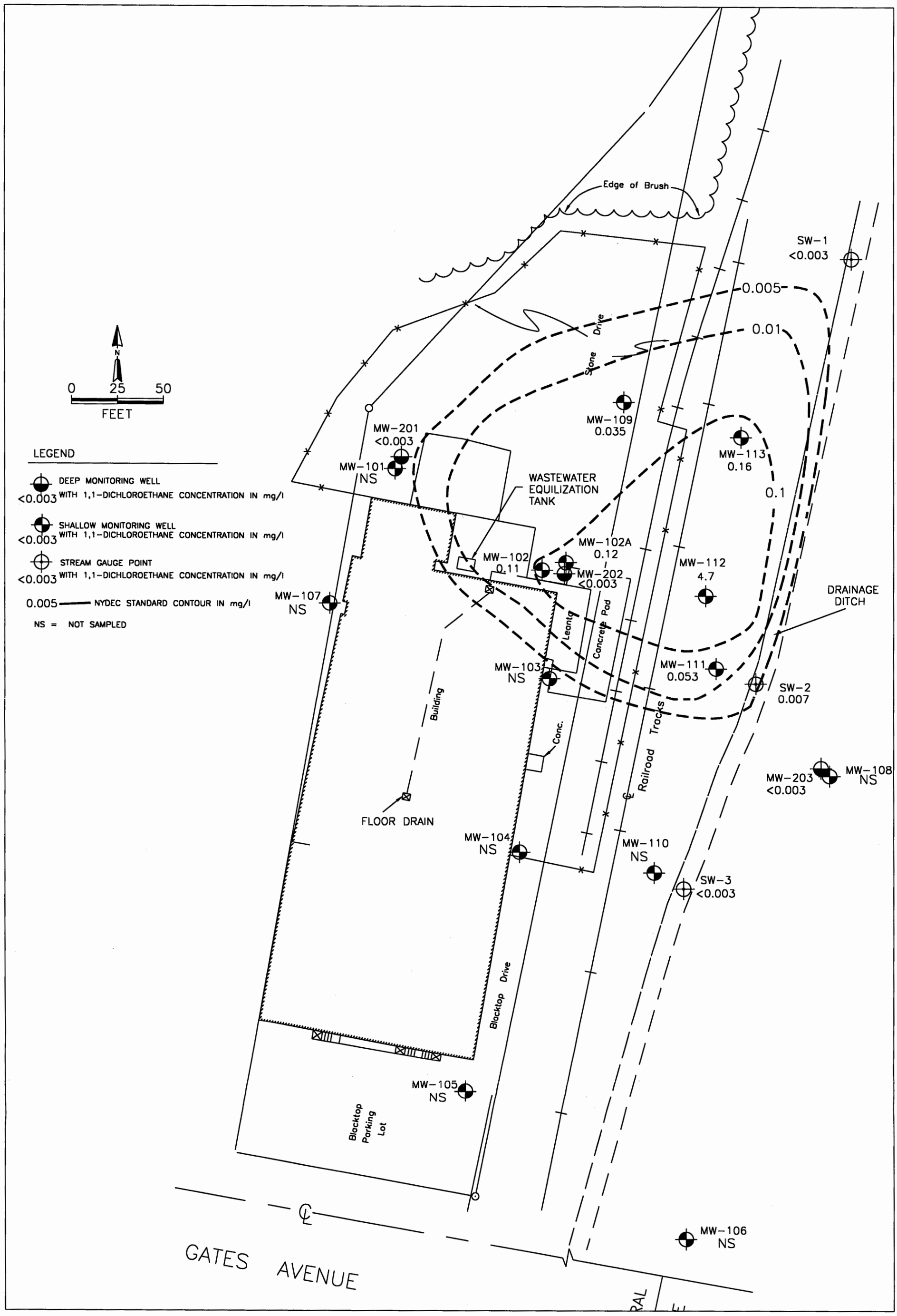
Delta Environmental Consultants, Inc.

TITLE:
1,1,1-TRICHLOROETHANE IN GROUND WATER (AUGUST 1999)
FORMER MONARCH CHEMICALS FACILITY
GENEVA, NEW YORK

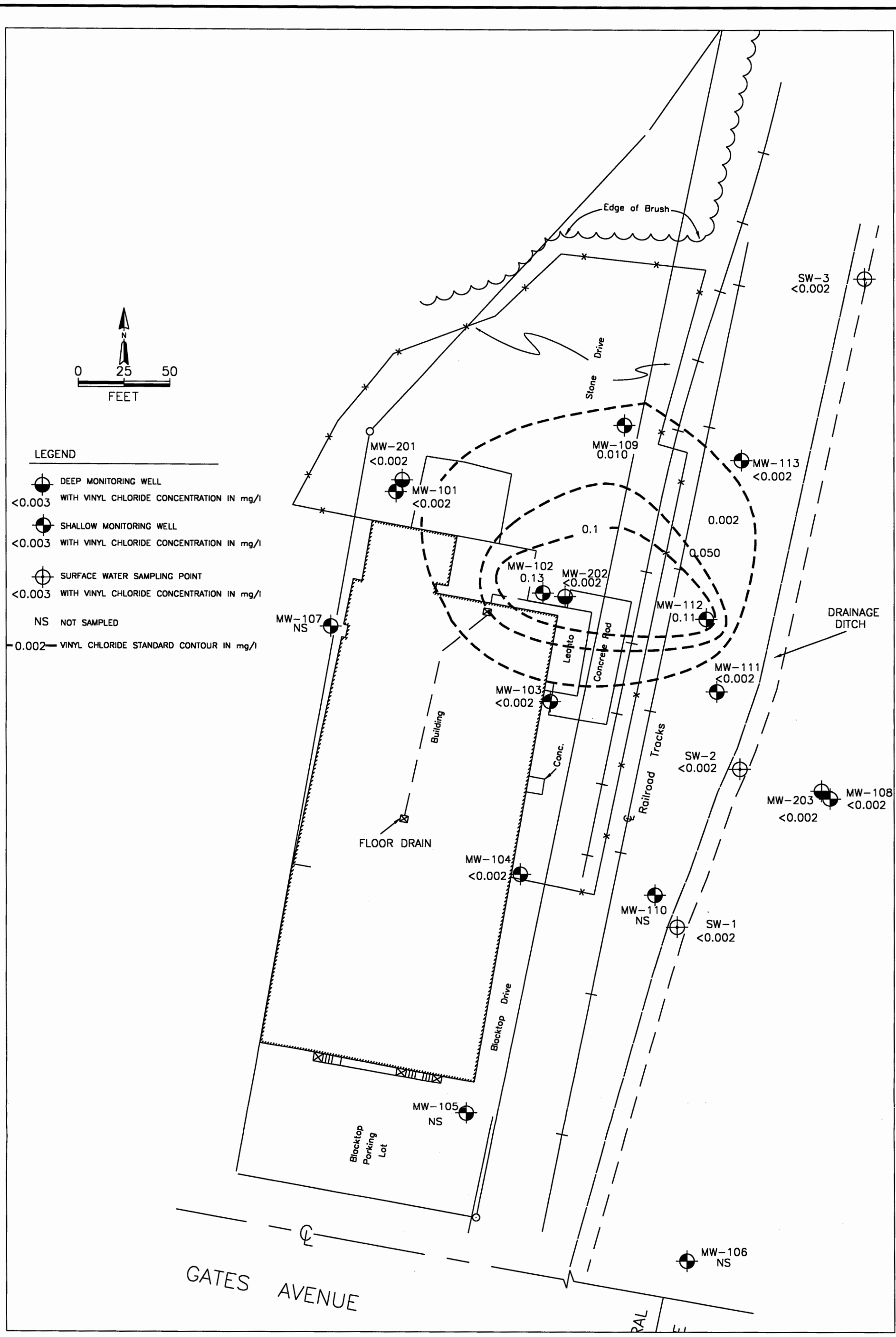
DWN: HLW	DES.:	PROJECT NO.: S096-015	
CHKD:	APPD:		
DATE: 9/20/99	REV.:	FIGURE NO.: 9	



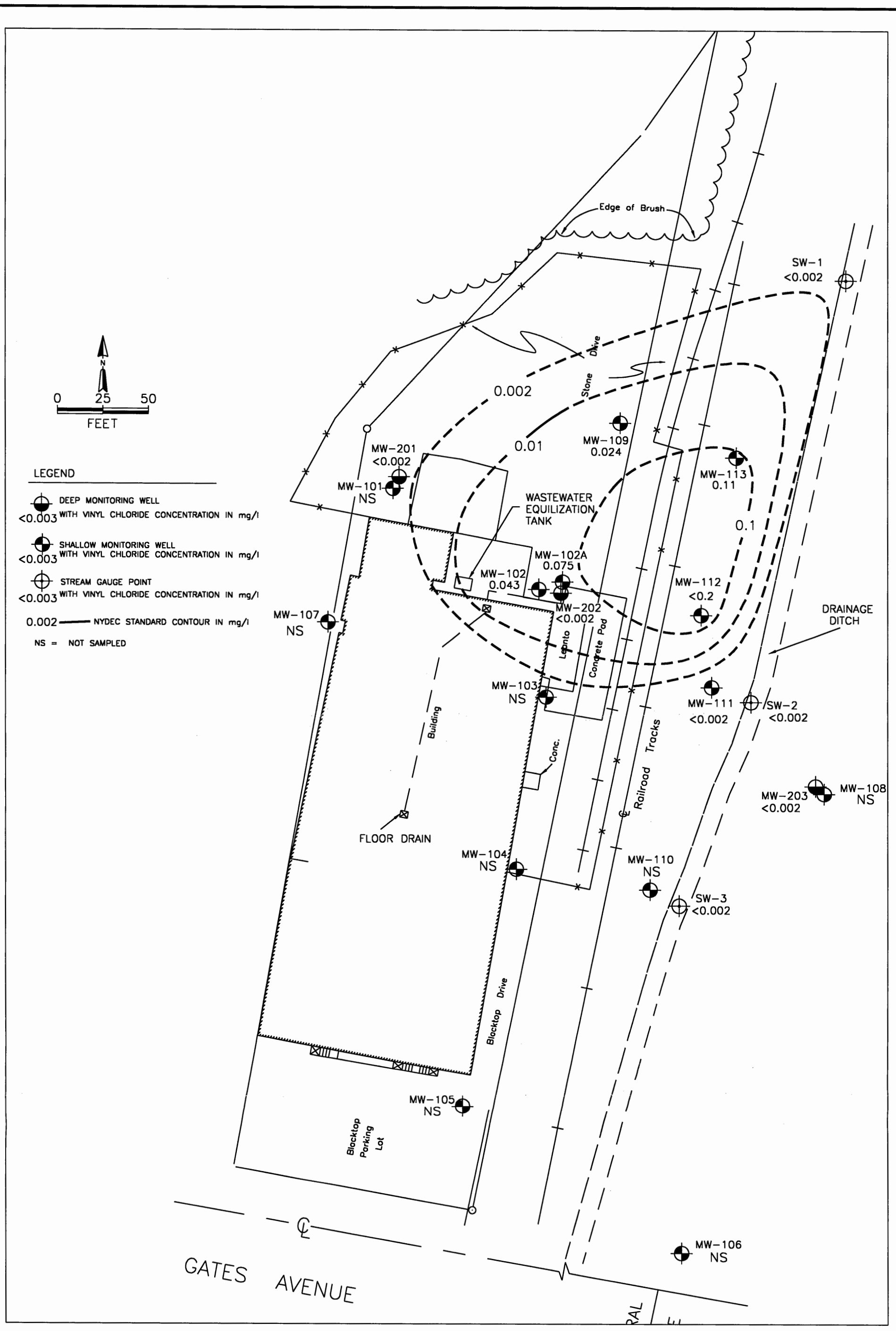
Delta Environmental Consultants, Inc.	TITLE: 1,1- DICHLOROETHANE IN GROUND WATER (APRIL 1999) FORMER MONARCH CHEMICAL FACILITY GENEVA, NEW YORK	DWN: HLW / DES.:	PROJECT NO.: S096-015	
		CHKD: / APPD:		
		DATE: 5/27/99 / REV.:	FIGURE NO.: 10	



Delta Environmental Consultants, Inc.	TITLE: 1,1-DICHLOROETHANE IN GROUND WATER (AUGUST 1999) FORMER MONARCH CHEMICALS FACILITY GENEVA, NEW YORK	DWN:	DES.:	PROJECT NO.: S096-015
		CHKD:	APPD:	FIGURE NO.: 11
		DATE: 9/21/99	REV.:	



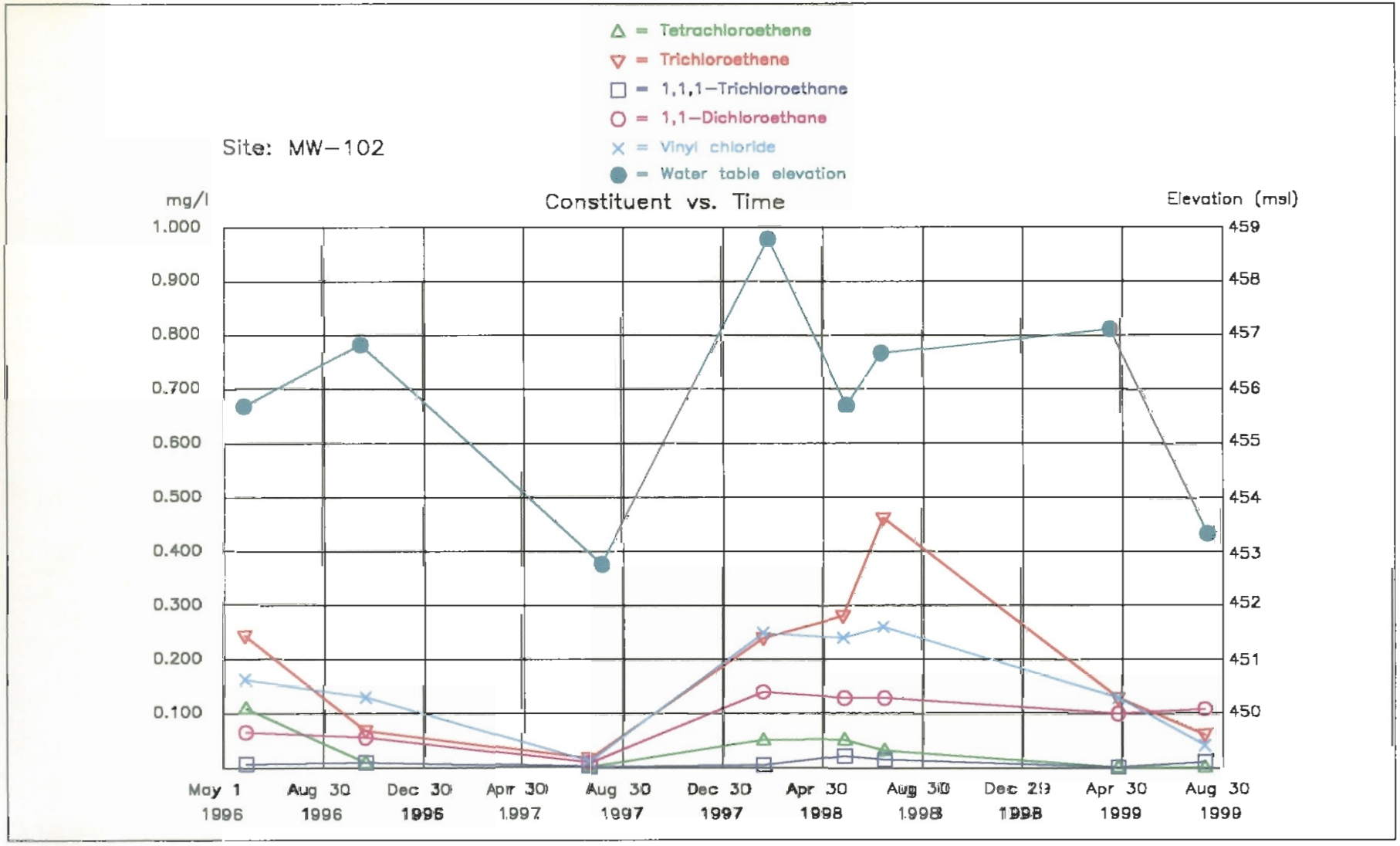
Delta Environmental Consultants, Inc.	TITLE: VINYL CHLORIDE IN GROUND WATER (APRIL 1999) FORMER MONARCH CHEMICAL FACILITY GENEVA, NEW YORK	DWN: HLW	DES.:	PROJECT NO.: S096-015
		CHKD:	APPD:	FIGURE NO.: 12
		DATE: 5/27/99	REV.:	



Delta Environmental Consultants, Inc.

TITLE:
VINYL CHLORIDE IN GROUND WATER (AUGUST 1999)
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

DWN: HLW	DES.:	PROJECT NO.: S096-015	
CHKD:	APPD:		
DATE: 9/21/99	REV.:	FIGURE NO.: 13	



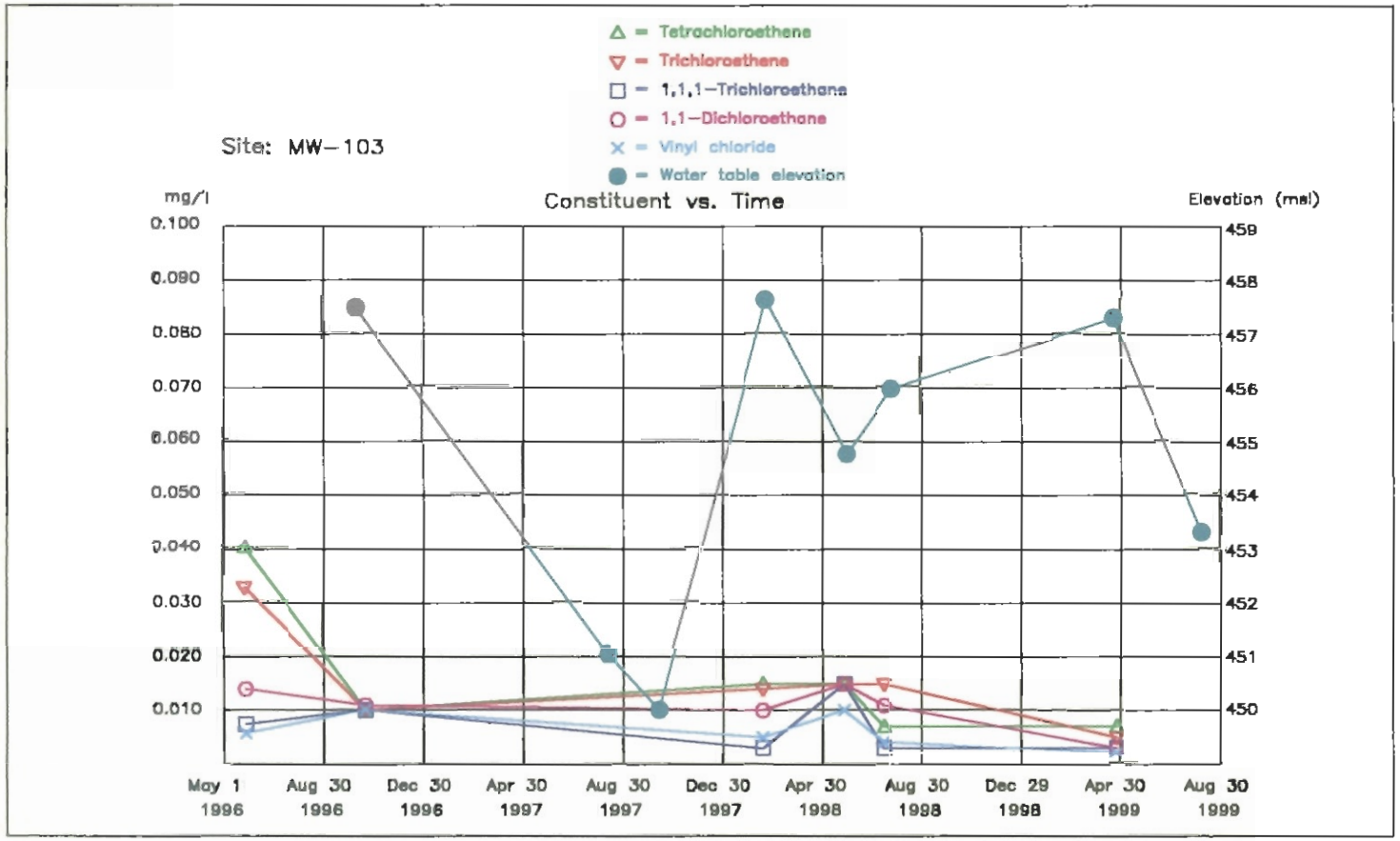
Delta Environmental Consultants, Inc.

TITLE:
CONSTITUENT VERSUS TIME: MW–102
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

DWN: HILW	DES.:
CHKD:	APPD:
DATE: 9/30/99	REV.:

PROJECT NO.: S096–015

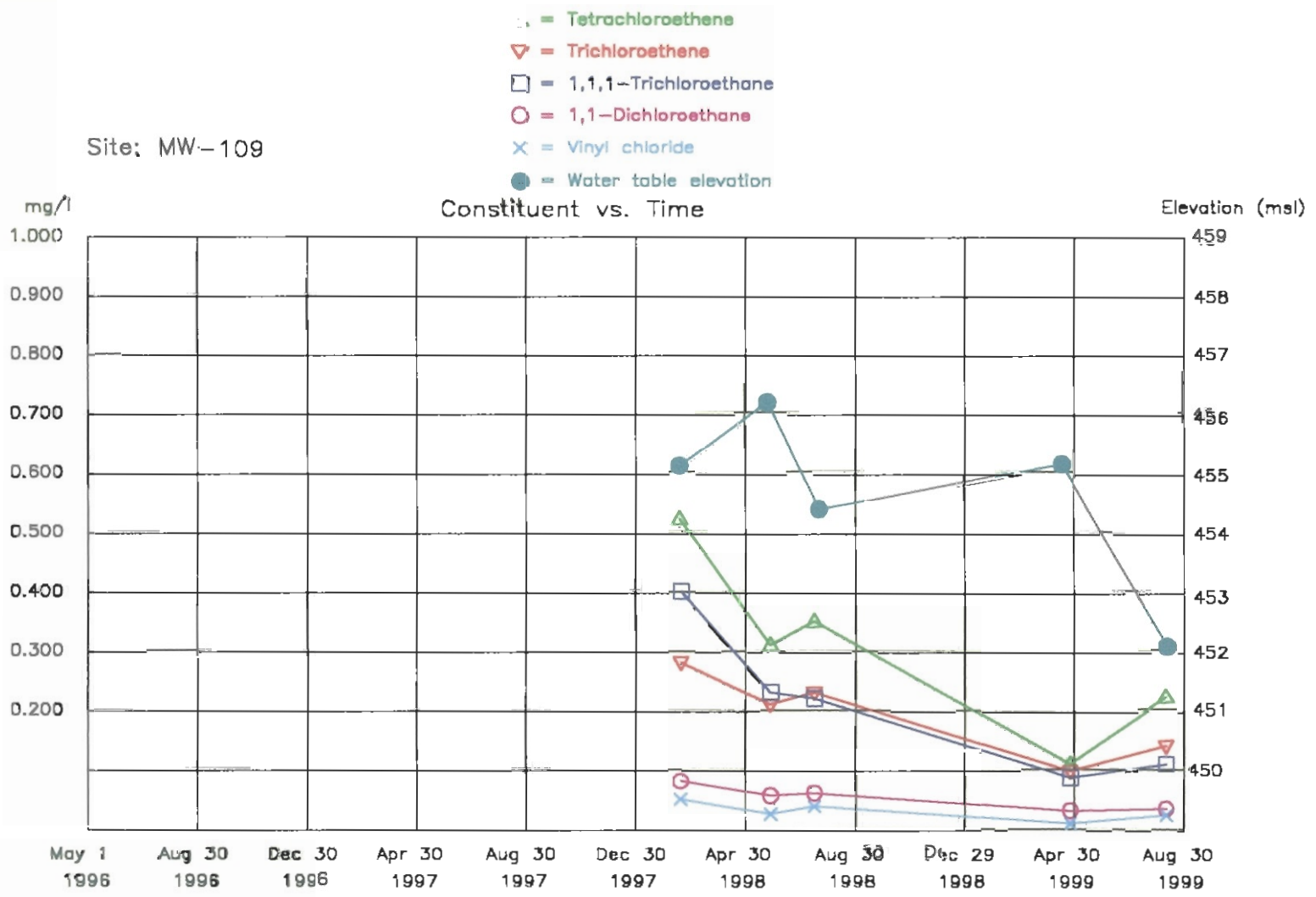
FIGURE NO.: 14



Delta Environmental Consultants, Inc.

TITLE:
CONSTITUENT VERSUS TIME: MW–103
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

DWN: HLW	DES.:	PROJECT NO.: S096–015
CHKD:	APPD:	FIGURE NO.: 15
DATE: 9/30/99	REV.:	



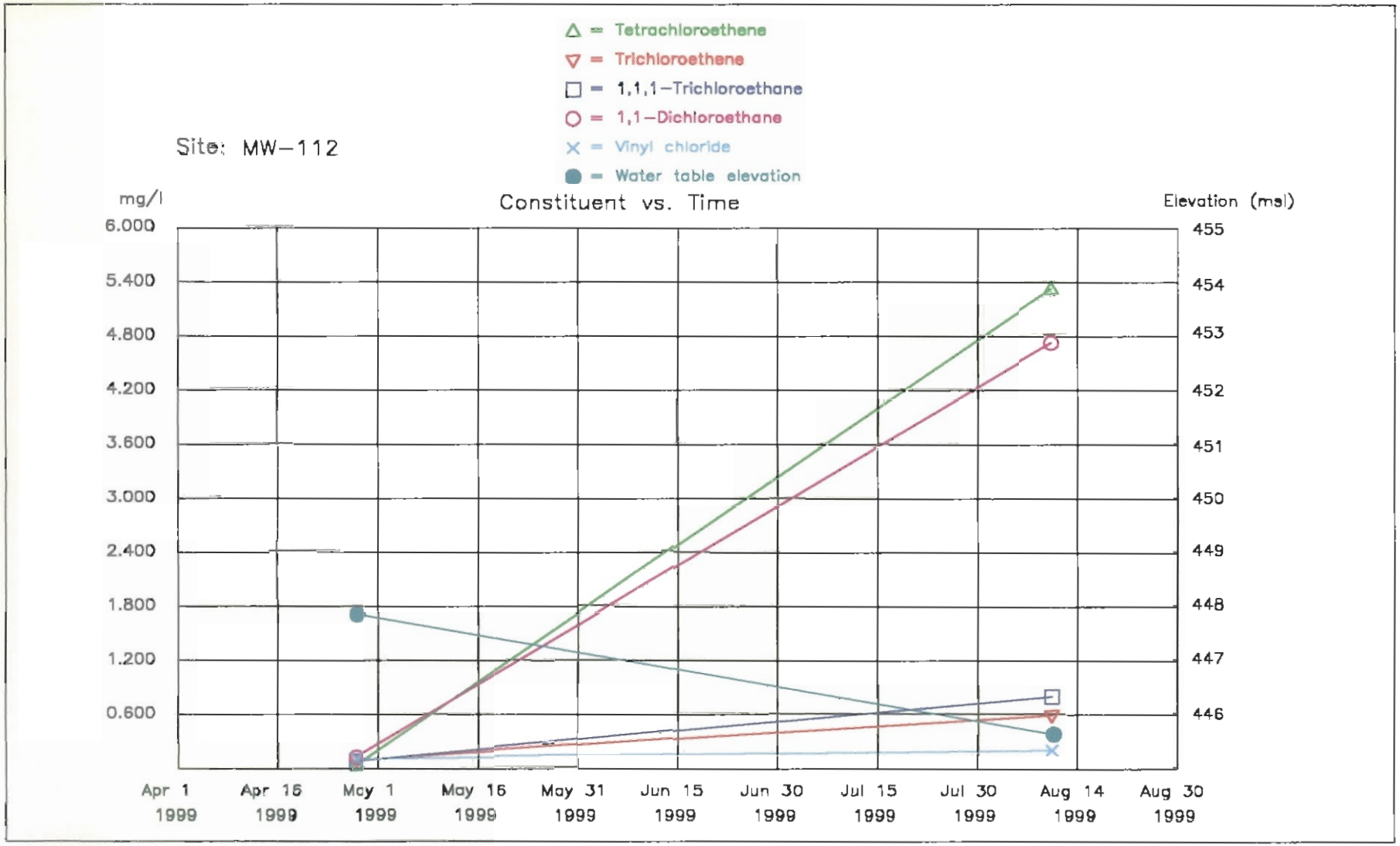
Delta Environmental Consultants, Inc.

TITLE:
CONSITUENT VERSUS TIME: MW-109
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

DWN: HLW	DES.:
CHKD:	APPD:
DATE: 9/30/99	REV.:

PROJECT NO.: S096-015

FIGURE NO.: 16



Delta Environmental Consultants, Inc.

TITLE:
CONSTITUENT VERSUS TIME: MW–112
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

DWN: HLW	DES.:	PROJECT NO.: S096–015	
CHKD:	APPD:	FIGURE NO.: 17	
DATE: 10/12/99	REV.:		

FIGURE 18

Geneva, NY -- Precipitation Running Averages, 1950-2000

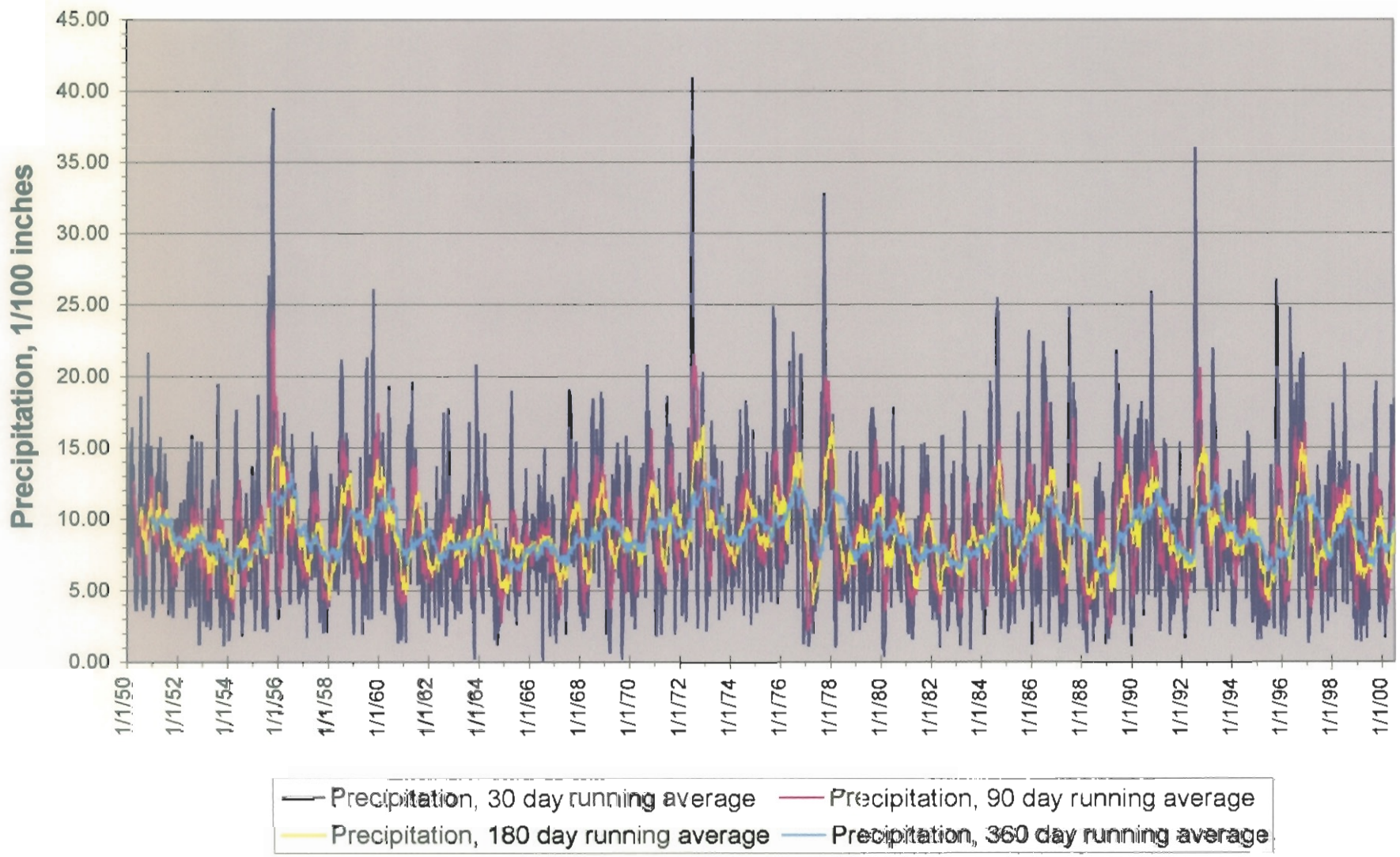
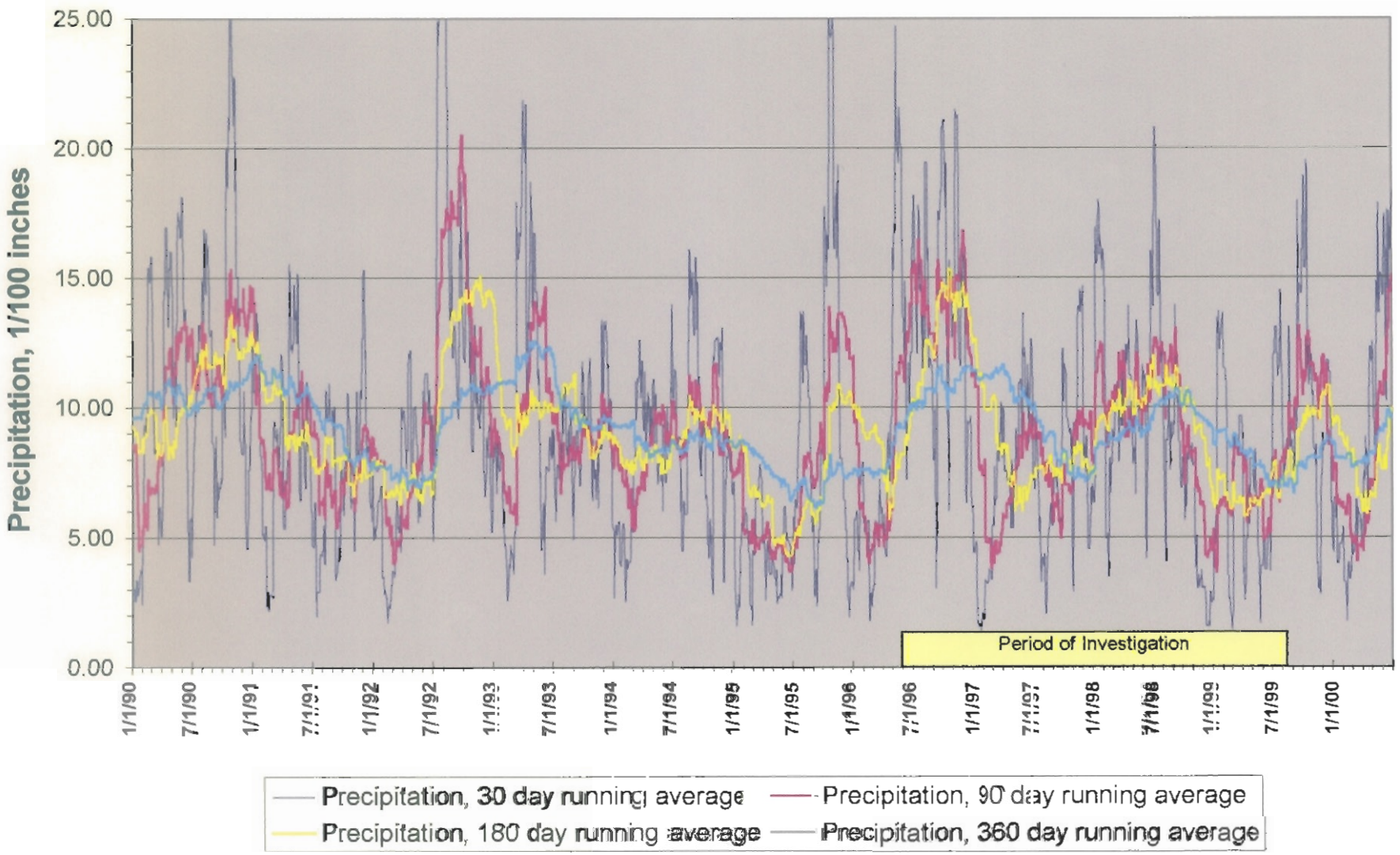


FIGURE 19

Geneva, NY -- Precipitation Running Averages, 1990-2000



APPENDIX A

HORIZONTAL HYDRAULIC GRADIENT CALCULATIONS

HISTORICAL HORIZONTAL HYDRAULIC GRADIENT CALCULATIONS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK
Delta Project No.. S096-015

Using data from monitoring wells MW-101, MW-105 and MW-111.

Date	Δ h	Δ L	Δ h / Δ L (gradient)
02/18/98	7.13	127	0.056
05/28/98	8.54	170	0.050
07/16/98	7.97	147	0.054
04/28/99	7.79	141	0.055
08/10/99	5.65	102	0.055

HORIZONTAL HYDRAULIC GRADIENT CALCULATIONS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK
DELTA PROJECT NO. S096-015

Based on data obtained from April 28, 1999.
Using data from monitoring wells MW-101, MW-105 and MW-111.

Water Table Elevations		Distance between MW-101 & MW-111
MW-101	458.55	208 ft
MW-105	450.76	
MW-111	447.44	

$$\frac{458.55 - 450.76}{X} = \frac{458.55 - 447.44}{208}$$

$$\frac{7.79}{X} = \frac{11.11}{208}$$

$$11.11X = 1{,}620$$

$$X = 145.8$$

(distance between MW-101 & MW-111 at which the water table elevation is the same as the intermediate well)

$$\frac{\Delta h}{\Delta L} = \frac{458.55 - 450.76}{141 \text{ ft}}$$

(distance between MW-101 and contour 450.76)

$$= \frac{7.79}{141} \quad \frac{\Delta h}{\Delta L} \quad 0.055$$

$$\frac{\Delta h}{\Delta L} = \mathbf{0.055}$$

HORIZONTAL HYDRAULIC GRADIENT CALCULATIONS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK
DELTA PROJECT NO. S096-015

Based on data obtained from August 10, 1999.
Using data from monitoring wells MW-101, MW-105 and MW-111.

Water Table Elevations		Distance between MW-101 & MW-111
MW-101	453.79	208 ft
MW-105	448.14	
MW-111	443.47	

$$\frac{453.79 - 448.14}{X} = \frac{453.79 - 443.47}{208}$$

$$\frac{5.65}{X} = \frac{10.32}{208}$$

$$10.32X = 1{,}175$$

$$X = 113.8$$

(distance between MW-101 & MW-111 at which the water table elevation is the same as the intermediate well)

$$\frac{\Delta h}{\Delta L} = \frac{453.79 - 448.14}{102}$$

(distance between MW-101 and contour 448.14)

$$= \frac{5.65}{102} \quad \frac{\Delta h}{\Delta L} \quad 0.055$$

$$\frac{\Delta h}{\Delta L} = 0.055$$

APPENDIX B

LABORATORY ANALYTICAL REPORTS

Upstate Laboratories inc.

Shipping: 6034 Corporate Dr. • E. Syracuse, NY 13057-1017 • (315) 437-0255 • Fax (315) 437-1209
Mailing: Box 289 • Syracuse, NY 13206
Albany (518) 459-3134
Binghamton (607) 724-0478
Buffalo (716) 649-2533
Rochester (716) 436-9070
New Jersey (201) 703-1324

MAY 17 1999

May 13, 1999

Mr. Steve Zbur
Unit Manager
Delta Environmental Consultants
4068 Mt. Royal Blvd.
Suite 225 - Gamma
Allison Park, PA 15101

Re: Analysis Report #11899140 - HB Fuller Geneva

Dear Mr. Zbur:

Please find enclosed the results for your samples which were collected by ULI personnel on April 27 and 28, 1999.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your sample. Samples will be disposed of approximately one month from final report date.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala

Anthony J. Scala
Director

AJS/jd

Enclosures: report, field data, invoice

cc/encs: N. Scala, ULI
file

Note: Faxed results were given to your office on 5/12/99. AJS

Disclaimer: The test results and procedures utilized, and laboratory interpretations of data obtained by ULI as contained in this report are believed by ULI to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of ULI for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: GJS
QC: PD JL
Lab I.D.: 10170
HB FULLER GENEVA
MW-113 1115H 04/27/99 G

ULI I.D.: 11899086 Matrix: Soil

PARAMETERS	RESULTS	KEY	FILE#
TOC	4993mg/kg		SC0001

dw = Dry weight

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: AS
QC: PD JT
Lab I.D.: 10170
HB FULLER GENEVA
MW-101 1550H 04/27/99 G

ULI I.D.: 11899082
Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field Dissolved Oxygen	2.31mg/l		FIELD
	Field Eh	-42.4mV		FIELD
	Field pH	7.15SU		FIELD
	Field Specific Conductivity	519umhos/cm		FIELD
	Field TRC	0.04mg/lCl2		FIELD
	Static Water Level	7.99'		FIELD
	Temperature	8.97degC		FIELD
	BOD5	6mg/l		WC5729
	MBAS	0.11mg/lLAS		WC5735
	Nitrite-Nitrogen	<0.05mg/l		WC5740
	Nitrate-Nitrogen	<0.2mg/l		WC5740
	Total Alkalinity	300mg/lCaCO3		WC5781
	Chloride	8mg/l		WC5798
	COD	47mg/l		WC5748
	Ammonia-Nitrogen	0.6mg/l		WC5764
	Sulfide	<0.1mg/l		WC5793
	Sulfate	91mg/l		WC5753
	Total Dissolved Solids	500mg/l		WC5751
Total	Sodium	20mg/l		MB0991
Dissolved	Iron	6.6mg/l		MB0987
	TCL Volatiles by EPA Method 8260			
	Chloromethane	<3ug/l		VM2376
	Bromomethane	<3ug/l		VM2376
	Vinyl Chloride	<2ug/l		VM2376
	Chloroethane	<3ug/l		VM2376
	Methylene Chloride	10ug/l	44	VM2376
	Acetone	<10ug/l		VM2376
	Carbon Disulfide	<3ug/l		VM2376
	1,1-Dichloroethene	<3ug/l		VM2376
	1,1-Dichloroethane	<3ug/l		VM2376
	trans-1,2-Dichloroethene	<3ug/l		VM2376
	cis-1,2-Dichloroethene	<3ug/l		VM2376
	Chloroform	<3ug/l		VM2376
	1,2-Dichloroethane	<3ug/l		VM2376
	2-Butanone	<10ug/l		VM2376
	1,1,1-Trichloroethane	<3ug/l		VM2376
	Carbon Tetrachloride	<3ug/l		VM2376
	Bromodichloromethane	<3ug/l		VM2376
	1,2-Dichloropropane	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
MW-101 1550H 04/27/99 G

ULI I.D.: 11899082
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
cis-1,3-Dichloropropene	<3ug/l		VM2376
Trichloroethene	6ug/l		VM2376
Dibromochloromethane	<3ug/l		VM2376
1,1,2-Trichloroethane	<3ug/l		VM2376
Benzene	<3ug/l		VM2376
trans-1,3-Dichloropropene	<3ug/l		VM2376
Bromoform	<3ug/l		VM2376
4-Methyl-2-pentanone	<10ug/l		VM2376
2-Hexanone	<10ug/l		VM2376
Tetrachloroethene	26ug/l		VM2376
1,1,2,2-Tetrachloroethane	<3ug/l		VM2376
Toluene	<3ug/l		VM2376
Chlorobenzene	<3ug/l		VM2376
Ethylbenzene	<3ug/l		VM2376
Styrene	<3ug/l		VM2376
m-Xylene and p-Xylene	<3ug/l		VM2376
o-Xylene	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS

APPROVAL: QS
QC: PD
Lab I.D.: 10170
Sampled by:

ID:11899083 Mat:Water HB FULLER GENEVA MW-102 1455H 04/27/99 G

	PARAMETERS	RESULTS	KEY	FILE#
	Field Dissolved Oxygen	7.61mg/l		FIELD
	Field Eh	-82.4mV		FIELD
	Field pH	7.62SU		FIELD
	Field Specific Conductivity	3072umhos/cm		FIELD
	Field TRC	0.09mg/lCl2		FIELD
	Static Water Level	5.63'		FIELD
	Temperature	9.51degC		FIELD
	BOD5	<24mg/l		WC5729
	BOD5 (Reanalysis)	11mg/l		WC5805
	MBAS	1.0mg/lLAS		WC5735
	Nitrite-Nitrogen	<0.05mg/l		WC5740
	Nitrate-Nitrogen	<0.2mg/l		WC5740
	Total Alkalinity	2000mg/lCaCO3		WC5856
	Chloride	410mg/l		WC5798
	COD	250mg/l		WC5828
	Ammonia-Nitrogen	1.5mg/l		WC5764
	Sulfide	<0.1mg/l		WC5793
	Sulfate	170mg/l		WC5753
	Total Dissolved Solids	3300mg/l		WC5751
Total	Sodium	510mg/l		MB0991
Dissolved	Iron	2.7mg/l		MB0987
	TCL Volatiles by EPA Method 8260			
	Chloromethane	<3ug/l		VM2374
	Bromomethane	<3ug/l		VM2374
	Vinyl Chloride	130ug/l		VM2374
	Chloroethane	<3ug/l		VM2374
	Methylene Chloride	5ug/l	44	VM2374
	Acetone	24ug/l		VM2374
	Carbon Disulfide	<3ug/l		VM2374
	1,1-Dichloroethene	<3ug/l		VM2374
	1,1-Dichloroethane	100ug/l		VM2374
	trans-1,2-Dichloroethene	4ug/l		VM2374
	cis-1,2-Dichloroethene	93ug/l		VM2374
	Chloroform	4ug/l		VM2374
	1,2-Dichloroethane	<3ug/l		VM2374
	2-Butanone	<10ug/l		VM2374
	1,1,1-Trichloroethane	<3ug/l		VM2374
	Carbon Tetrachloride	<3ug/l		VM2374
	Bromodichloromethane	<3ug/l		VM2374
	1,2-Dichloropropane	<3ug/l		VM2374
	cis-1,3-Dichloropropene	<3ug/l		VM2374
	Trichloroethene	130ug/l		VM2374
	Dibromochloromethane	<3ug/l		VM2374

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS

APPROVAL: GJS
QC: PD
Lab I.D.: 10170
Sampled by:

ID:11899083 Mat:Water HB FULLER GENEVA MW-102 1455H 04/27/99 G

PARAMETERS	RESULTS	KEY	FILE#
1,1,2-Trichloroethane	<3ug/l		VM2374
Benzene	<3ug/l		VM2374
trans-1,3-Dichloropropene	<3ug/l		VM2374
Bromoform	<3ug/l		VM2374
4-Methyl-2-pentanone	<10ug/l		VM2374
2-Hexanone	<10ug/l		VM2374
Tetrachloroethene	<10ug/l		VM2374
1,1,2,2-Tetrachloroethane	<3ug/l		VM2374
Toluene	<3ug/l		VM2374
Chlorobenzene	<3ug/l		VM2374
Ethylbenzene	<3ug/l		VM2374
Styrene	<3ug/l		VM2374
m-Xylene and p-Xylene	<3ug/l		VM2374
o-Xylene	<3ug/l		VM2374

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
MW-107 1710H 04/27/99 G

ULI I.D.: 11899084
Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field TRC	0.02mg/lCl2		FIELD
	Static Water Level	10.44'		FIELD
	BOD5	<4mg/l		WC5729
	Nitrite-Nitrogen	<0.05mg/l		WC5740
	Nitrate-Nitrogen	0.2mg/l		WC5740
	Total Alkalinity	240mg/lCaCO3		WC5781
	Chloride	2mg/l		WC5798
	COD	<20mg/l		WC5748
	Ammonia-Nitrogen	<0.5mg/l		WC5764
	Sulfide	<0.1mg/l		WC5793
	Sulfate	30mg/l		WC5753
	Total Dissolved Solids	310mg/l		WC5751
Total	Sodium	5.4mg/l		MB0991
Dissolved	Iron	0.15mg/l		MB0987

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD JF
Lab I.D.: 10170
HB FULLER GENEVA
MW-109 1319H 04/27/99 G

ULI I.D.: 11899085 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Field Dissolved Oxygen	6.3mg/l		FIELD
Field Eh	194.5mV		FIELD
Field pH	7.01SU		FIELD
Field Specific Conductivity	1623umhos/cm		FIELD
Static Water Level	7.34'		FIELD
Temperature	10.97degC		FIELD
MBAS	0.56mg/lLAS		WC5735
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2374
Bromomethane	<3ug/l		VM2374
Vinyl Chloride	10ug/l		VM2374
Chloroethane	<3ug/l		VM2374
Methylene Chloride	4ug/l	44	VM2374
Acetone	<10ug/l		VM2374
Carbon Disulfide	<3ug/l		VM2374
1,1-Dichloroethene	15ug/l		VM2374
1,1-Dichloroethane	31ug/l		VM2374
trans-1,2-Dichloroethene	<3ug/l		VM2374
cis-1,2-Dichloroethene	83ug/l		VM2374
Chloroform	4ug/l		VM2374
1,2-Dichloroethane	<3ug/l		VM2374
2-Butanone	<10ug/l		VM2374
1,1,1-Trichloroethane	87ug/l		VM2374
Carbon Tetrachloride	<3ug/l		VM2374
Bromodichloromethane	<3ug/l		VM2374
1,2-Dichloropropane	<3ug/l		VM2374
cis-1,3-Dichloropropene	<3ug/l		VM2374
Trichloroethene	97ug/l		VM2374
Dibromochloromethane	<3ug/l		VM2374
1,1,2-Trichloroethane	<3ug/l		VM2374
Benzene	<3ug/l		VM2374
trans-1,3-Dichloropropene	<3ug/l		VM2374
Bromoform	<3ug/l		VM2374
4-Methyl-2-pentanone	<10ug/l		VM2374
2-Hexanone	<10ug/l		VM2374
Tetrachloroethene	110ug/l		VM2374
1,1,2,2-Tetrachloroethane	<3ug/l		VM2374
Toluene	<3ug/l		VM2374
Chlorobenzene	<3ug/l		VM2374

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD CJ
Lab I.D.: 10170
HB FULLER GENEVA
MW-109 1319H 04/27/99 G

ULI I.D.: 11899085
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Ethylbenzene	<3ug/l		VM2374
Styrene	<3ug/l		VM2374
m-Xylene and p-Xylene	9ug/l		VM2374
o-Xylene	6ug/l		VM2374

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: GJS
QC: PD GJ
Lab I.D.: 10170
HB FULLER GENEVA
MW-103 1008H 04/28/99 G

ULI I.D.: 11899141 Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field Dissolved Oxygen	3.21mg/l		FIELD
	Field Eh	102.5mV		FIELD
	Field pH	7.91SU		FIELD
	Field Specific Conductivity	963.0umhos/cm		FIELD
	Field TRC	0.04mg/lCl2		FIELD
	Static Water Level	5.56'		FIELD
	Temperature	12.29degC		FIELD
	BOD5	12mg/l		WC5760
	MBAS	1.1mg/lLAS		WC5766
	Nitrite-Nitrogen	<0.05mg/l		WC5740
	Nitrate-Nitrogen	<0.2mg/l		WC5740
	Total Alkalinity	350mg/lCaCO3		WC5781
	Chloride	37mg/l		WC5798
	COD	110mg/l		WC5748
	Ammonia-Nitrogen	6.0mg/l		WC5764
	Sulfide	<0.1mg/l		WC5793
	Sulfate	97mg/l		WC5753
	Total Dissolved Solids	870mg/l		WC5751
Total	Sodium	160mg/l		MB0991
Dissolved	Iron	1.9mg/l		MB0987
	TCL Volatiles by EPA Method 8260			
	Chloromethane	<3ug/l		VM2376
	Bromomethane	<3ug/l		VM2376
	Vinyl Chloride	<2ug/l		VM2376
	Chloroethane	<3ug/l		VM2376
	Methylene Chloride	10ug/l	44	VM2376
	Acetone	14ug/l		VM2376
	Carbon Disulfide	<3ug/l		VM2376
	1,1-Dichloroethene	<3ug/l		VM2376
	1,1-Dichloroethane	<3ug/l		VM2376
	trans-1,2-Dichloroethene	<3ug/l		VM2376
	cis-1,2-Dichloroethene	4ug/l		VM2376
	Chloroform	<3ug/l		VM2376
	1,2-Dichloroethane	<3ug/l		VM2376
	2-Butanone	<10ug/l		VM2376
	1,1,1-Trichloroethane	<3ug/l		VM2376
	Carbon Tetrachloride	<3ug/l		VM2376
	Bromodichloromethane	<3ug/l		VM2376
	1,2-Dichloropropane	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD CJ
Lab I.D.: 10170
HB FULLER GENEVA
MW-103 1008H 04/28/99 G

ULI I.D.: 11899141
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
cis-1,3-Dichloropropene	<3ug/l		VM2376
Trichloroethene	5ug/l		VM2376
Dibromochloromethane	<3ug/l		VM2376
1,1,2-Trichloroethane	<3ug/l		VM2376
Benzene	<3ug/l		VM2376
trans-1,3-Dichloropropene	<3ug/l		VM2376
Bromoform	<3ug/l		VM2376
4-Methyl-2-pentanone	<10ug/l		VM2376
2-Hexanone	<10ug/l		VM2376
Tetrachloroethene	7ug/l		VM2376
1,1,2,2-Tetrachloroethane	<3ug/l		VM2376
Toluene	<3ug/l		VM2376
Chlorobenzene	<3ug/l		VM2376
Ethylbenzene	<3ug/l		VM2376
Styrene	<3ug/l		VM2376
m-Xylene and p-Xylene	<3ug/l		VM2376
o-Xylene	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD J
Lab I.D.: 10170
HB FULLER GENEVA
MW-104 1102H 04/28/99 G

ULI I.D.: 11899142 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Field Dissolved Oxygen	0.95mg/l		FIELD
Field Eh	12.50mV		FIELD
Field pH	7.69SU		FIELD
Field Specific Conductivity	365.0umhos/cm		FIELD
Static Water Level	4.17'		FIELD
Temperature	10.89degC		FIELD
MBAS	<0.05mg/lLAS		WC5766
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2374
Bromomethane	<3ug/l		VM2374
Vinyl Chloride	<2ug/l		VM2374
Chloroethane	<3ug/l		VM2374
Methylene Chloride	3ug/l	44	VM2374
Acetone	<10ug/l		VM2374
Carbon Disulfide	<3ug/l		VM2374
1,1-Dichloroethene	<3ug/l		VM2374
1,1-Dichloroethane	<3ug/l		VM2374
trans-1,2-Dichloroethene	<3ug/l		VM2374
cis-1,2-Dichloroethene	<3ug/l		VM2374
Chloroform	<3ug/l		VM2374
1,2-Dichloroethane	<3ug/l		VM2374
2-Butanone	<10ug/l		VM2374
1,1,1-Trichloroethane	<3ug/l		VM2374
Carbon Tetrachloride	<3ug/l		VM2374
Bromodichloromethane	<3ug/l		VM2374
1,2-Dichloropropane	<3ug/l		VM2374
cis-1,3-Dichloropropene	<3ug/l		VM2374
Trichloroethene	<3ug/l		VM2374
Dibromochloromethane	<3ug/l		VM2374
1,1,2-Trichloroethane	<3ug/l		VM2374
Benzene	<3ug/l		VM2374
trans-1,3-Dichloropropene	<3ug/l		VM2374
Bromoform	<3ug/l		VM2374
4-Methyl-2-pentanone	<10ug/l		VM2374
2-Hexanone	<10ug/l		VM2374
Tetrachloroethene	<3ug/l		VM2374
1,1,2,2-Tetrachloroethane	<3ug/l		VM2374
Toluene	<3ug/l		VM2374
Chlorobenzene	<3ug/l		VM2374

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD JT
Lab I.D.: 10170
HB FULLER GENEVA
MW-104 1102H 04/28/99 G

ULI I.D.: 11899142 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Ethylbenzene	<3ug/l		VM2374
Styrene	<3ug/l		VM2374
m-Xylene and p-Xylene	<3ug/l		VM2374
o-Xylene	<3ug/l		VM2374

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
MW-105 1058H 04/28/99 G

ULI I.D.: 11899143 Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field Dissolved Oxygen	3.67mg/l		FIELD
	Field Eh	126.6mV		FIELD
	Field pH	6.69SU		FIELD
	Field Specific Conductivity	882.0umhos/cm		FIELD
	Field TRC	0.03mg/lCl2		FIELD
	Static Water Level	6.85'		FIELD
	Temperature	11.94degC		FIELD
	BOD5	<4mg/l		WC5760
	Nitrite-Nitrogen	<0.05mg/l		WC5740
	Nitrate-Nitrogen	<0.2mg/l		WC5740
	Total Alkalinity	560mg/lCaCO3		WC5856
	Chloride	34mg/l		WC5798
	COD	<20mg/l		WC5864
	Ammonia-Nitrogen	3.5mg/l		WC5764
	Sulfide	<0.1mg/l		WC5793
	Sulfate	67mg/l		WC5753
	Total Dissolved Solids	750mg/l		WC5751
Total	Sodium	99mg/l		MB0991
Dissolved	Iron	0.06mg/l		MB0987

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD -F-
Lab I.D.: 10170
HB FULLER GENEVA
MW-106 1401H 04/28/99 G

ULI I.D.: 11899144 Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field TRC	0.02mg/lCl2		FIELD
	Static Water Level	3.46'		FIELD
	BOD5	<4mg/l		WC5760
	Nitrite-Nitrogen	<0.05mg/l		WC5740
	Nitrate-Nitrogen	<0.2mg/l		WC5740
	Total Alkalinity	460mg/lCaCO3		WC5781
	Chloride	3mg/l		WC5798
	COD	<20mg/l		WC5748
	Ammonia-Nitrogen	2.2mg/l		WC5764
	Sulfide	<0.1mg/l		WC5793
	Sulfate	24mg/l		WC5753
	Total Dissolved Solids	420mg/l		WC5751
Total	Sodium	31mg/l		MB0991
Dissolved	Iron	0.09mg/l		MB0987

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PDI -J-
Lab I.D.: 10170
HB FULLER GENEVA
MW-108 1310H 04/28/99 G

ULI I.D.: 11899145 Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field Dissolved Oxygen	2.17mg/l		FIELD
	Field Eh	159.1mV		FIELD
	Field pH	6.83SU		FIELD
	Field Specific Conductivity	614.0umhos/cm		FIELD
	Field TRC	0.04mg/lCl2		FIELD
	Static Water Level	5.01'		FIELD
	Temperature	8.78degC		FIELD
	BOD5	<4mg/l		WC5760
	MBAS	<0.65mg/lLAS		WC5766
	Nitrite-Nitrogen	<0.05mg/l		WC5740
	Nitrate-Nitrogen	<0.2mg/l		WC5740
	Total Alkalinity	490mg/lCaCO3		WC5781
	Chloride	10mg/l		WC5798
	COD	<20mg/l		WC5786
	Ammonia-Nitrogen	0.6mg/l		WC5764
	Sulfide	<0.1mg/l		WC5793
	Sulfate	41mg/l		WC5753
	Total Dissolved Solids	510mg/l		WC5751
Total	Sodium	32mg/l		MB0991
Dissolved	Iron	0.11mg/l		MB0987
	TCL Volatiles by EPA Method 8260			
	Chloromethane	<3ug/l		VM2374
	Bromomethane	<3ug/l		VM2374
	Vinyl Chloride	<2ug/l		VM2374
	Chloroethane	<3ug/l		VM2374
	Methylene Chloride	<3ug/l		VM2374
	Acetone	13ug/l		VM2374
	Carbon Disulfide	<3ug/l		VM2374
	1,1-Dichloroethene	<3ug/l		VM2374
	1,1-Dichloroethane	<3ug/l		VM2374
	trans-1,2-Dichloroethene	<3ug/l		VM2374
	cis-1,2-Dichloroethene	<3ug/l		VM2374
	Chloroform	<3ug/l		VM2374
	1,2-Dichloroethane	<3ug/l		VM2374
	2-Butanone	<10ug/l		VM2374
	1,1,1-Trichloroethane	<3ug/l		VM2374
	Carbon Tetrachloride	<3ug/l		VM2374
	Bromodichloromethane	<3ug/l		VM2374
	1,2-Dichloropropane	<3ug/l		VM2374

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD _J_
Lab I.D.: 10170
HB FULLER GENEVA
MW-108 1310H 04/28/99 G

ULI I.D.: 11899145 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
cis-1,3-Dichloropropene	<3ug/l		VM2374
Trichloroethene	<3ug/l		VM2374
Dibromochloromethane	<3ug/l		VM2374
1,1,2-Trichloroethane	<3ug/l		VM2374
Benzene	<3ug/l		VM2374
trans-1,3-Dichloropropene	<3ug/l		VM2374
Bromoform	<3ug/l		VM2374
4-Methyl-2-pentanone	<10ug/l		VM2374
2-Hexanone	<10ug/l		VM2374
Tetrachloroethene	4ug/l	44	VM2374
1,1,2,2-Tetrachloroethane	<3ug/l		VM2374
Toluene	<3ug/l		VM2374
Chlorobenzene	<3ug/l		VM2374
Ethylbenzene	<3ug/l		VM2374
Styrene	<3ug/l		VM2374
m-Xylene and p-Xylene	<3ug/l		VM2374
o-Xylene	<3ug/l		VM2374

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
MW-111 1006H 04/28/99 G

ULI I.D.: 11899146
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2374
Bromomethane	<3ug/l		VM2374
Vinyl Chloride	<2ug/l		VM2374
Chloroethane	<3ug/l		VM2374
Methylene Chloride	<3ug/l		VM2374
Acetone	<10ug/l		VM2374
Carbon Disulfide	<3ug/l		VM2374
1,1-Dichloroethene	9ug/l		VM2374
1,1-Dichloroethane	18ug/l		VM2374
trans-1,2-Dichloroethene	<3ug/l		VM2374
cis-1,2-Dichloroethene	<3ug/l		VM2374
Chloroform	<3ug/l		VM2374
1,2-Dichloroethane	<3ug/l		VM2374
2-Butanone	<10ug/l		VM2374
1,1,1-Trichloroethane	<3ug/l		VM2374
Carbon Tetrachloride	<3ug/l		VM2374
Bromodichloromethane	<3ug/l		VM2374
1,2-Dichloropropane	<3ug/l		VM2374
cis-1,3-Dichloropropene	<3ug/l		VM2374
Trichloroethene	<3ug/l		VM2374
Dibromochloromethane	<3ug/l		VM2374
1,1,2-Trichloroethane	<3ug/l		VM2374
Benzene	<3ug/l		VM2374
trans-1,3-Dichloropropene	<3ug/l		VM2374
Bromoform	<3ug/l		VM2374
4-Methyl-2-pentanone	<10ug/l		VM2374
2-Hexanone	<10ug/l		VM2374
Tetrachloroethene	<3ug/l		VM2374
1,1,2,2-Tetrachloroethane	<3ug/l		VM2374
Toluene	<3ug/l		VM2374
Chlorobenzene	<3ug/l		VM2374
Ethylbenzene	<3ug/l		VM2374
Styrene	<3ug/l		VM2374
m-Xylene and p-Xylene	<3ug/l		VM2374
o-Xylene	<3ug/l		VM2374

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS

APPROVAL: GJS
QC: PD
Lab I.D.: 10170
Sampled by: ULI

ID:11899147 Mat:Water HB FULLER GENEVA MW-112 1440H 04/28/99 G

	PARAMETERS	RESULTS	KEY	FILE#
	Field Dissolved Oxygen	1.80mg/l		FIELD
	Field Eh	-2.70mV		FIELD
	Field pH	7.24SU		FELD
	Field Specific Conductivity	1249.0umhos/cm		FIELD
	Field TRC	0.04mg/lCl2		FIELD
	Static Water Level	11.98'		FIELD
	Temperature	10.75degC		FIELD
	BOD5	<4mg/l		WC5760
	MBAS	0.11mg/lLAS		WC5766
	Nitrite-Nitrogen	<0.05mg/l		WC5740
	Nitrate-Nitrogen	<0.2mg/l		WC5740
	Total Alkalinity	600mg/lCaCO3		WC5856
	Chloride	98mg/l		WC5868
	COD	40mg/l		WC5786
	Ammonia-Nitrogen	2.2mg/l		WC5764
	Sulfide	<0.1mg/l		WC5793
	Sulfate	130mg/l		WC5794
	Total Dissolved Solids	880mg/l		WC5751
Total	Sodium	170mg/l		MB0991
Dissolved	Iron	0.21mg/l		MB0987
	TCL Volatiles by EPA Method 8260			
	Chloromethane	<3ug/l		VM2374
	Bromomethane	<3ug/l		VM2374
	Vinyl Chloride	110ug/l		VM2374
	Chloroethane	<3ug/l		VM2374
	Methylene Chloride	6ug/l	44	VM2374
	Acetone	<10ug/l		VM2374
	Carbon Disulfide	<3ug/l		VM2374
	1,1-Dichloroethene	15ug/l		VM2374
	1,1-Dichloroethane	120ug/l		VM2374
	trans-1,2-Dichloroethene	<3ug/l		VM2374
	cis-1,2-Dichloroethene	190ug/l		VM2374
	Chloroform	<3ug/l		VM2374
	1,2-Dichloroethane	<3ug/l		VM2374
	2-Butanone	<10ug/l		VM2374
	1,1,1-Trichloroethane	75ug/l		VM2374
	Carbon Tetrachloride	<3ug/l		VM2374
	Bromodichloromethane	<3ug/l		VM2374
	1,2-Dichloropropane	<3ug/l		VM2374
	cis-1,3-Dichloropropene	<3ug/l		VM2374
	Trichloroethene	96ug/l		VM2374
	Dibromochloromethane	<3ug/l		VM2374
	1,1,2-Trichloroethane	<3ug/l		VM2374

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS

APPROVAL: GJS
QC: PD
Lab I.D.: 10170
Sampled by: ULI

ID:11899147 Mat:Water HB FULLER GENEVA MW-112 1440H 04/28/99 G

PARAMETERS	RESULTS	KEY	FILE#
Benzene	<3ug/l		VM2374
trans-1,3-Dichloropropene	<3ug/l		VM2374
Bromoform	<3ug/l		VM2374
4-Methyl-2-pentanone	<10ug/l		VM2374
2-Hexanone	<10ug/l		VM2374
Tetrachloroethene	29ug/l		VM2374
1,1,2,2-Tetrachloroethane	<3ug/l		VM2374
Toluene	<3ug/l		VM2374
Chlorobenzene	<3ug/l		VM2374
Ethylbenzene	<3ug/l		VM2374
Styrene	<3ug/l		VM2374
m-Xylene and p-Xylene	<3ug/l		VM2374
o-Xylene	<3ug/l		VM2374

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS

APPROVAL: GJS
QC: PD
Lab I.D.: 10170
Sampled by: ULI

ID:11899148 Mat:Water HB FULLER GENEVA MW-113 1153H 04/28/99 G

	PARAMETERS	RESULTS	KEY	FILE#
	Field Dissolved Oxygen	1.55mg/l		FIELD
	Field Eh	-142.7mV		FIELD
	Field pH	7.77SU		FIELD
	Field Specific Conductivity	584.0umhos/cm		FIELD
	Field TRC	0.04mg/lCl2		FIELD
	Static Water Level	11.51'		FIELD
	Temperature	10.58degC		FIELD
	BOD5	<4mg/l		WC5760
	MBAS	<0.05mg/lLAS		WC5760
	Nitrite-Nitrogen	<0.05mg/l		WC5740
	Nitrate-Nitrogen	<0.2mg/l		WC5740
	Total Alkalinity	390mg/lCaCO3		WC5781
	Chloride	74mg/l		WC5798
	COD	120mg/l		WC5786
	Ammonia-Nitrogen	<0.5mg/l		WC5764
	Sulfide	<0.1mg/l		WC5793
	Sulfate	130mg/l		WC5794
	Total Dissolved Solids	700mg/l		WC5751
Total	Sodium	50mg/l		MB0991
Dissolved	Iron	1.2mg/l		MB0987
	TCL Volatiles by EPA Method 8260			
	Chloromethane	<3ug/l		VM2376
	Bromomethane	<3ug/l		VM2376
	Vinyl Chloride	<2ug/l		VM2376
	Chloroethane	<3ug/l		VM2376
	Methylene Chloride	10ug/l	44	VM2376
	Acetone	<10ug/l		VM2376
	Carbon Disulfide	<3ug/l		VM2376
	1,1-Dichloroethene	<3ug/l		VM2376
	1,1-Dichloroethane	96ug/l		VM2376
	trans-1,2-Dichloroethene	<3ug/l		VM2376
	cis-1,2-Dichloroethene	4ug/l		VM2376
	Chloroform	<3ug/l		VM2376
	1,2-Dichloroethane	<3ug/l		VM2376
	2-Butanone	<10ug/l		VM2376
	1,1,1-Trichloroethane	<3ug/l		VM2376
	Carbon Tetrachloride	<3ug/l		VM2376
	Bromodichloromethane	<3ug/l		VM2376
	1,2-Dichloropropane	<3ug/l		VM2376
	cis-1,3-Dichloropropene	<3ug/l		VM2376
	Trichloroethene	<3ug/l		VM2376
	Dibromochloromethane	<3ug/l		VM2376
	1,1,2-Trichloroethane	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS

APPROVAL: GJS
QC: PD
Lab I.D.: 10170
Sampled by: ULI

ID:11899148 Mat:Water HB FULLER GENEVA MW-113 1153H 04/28/99 G

PARAMETERS	RESULTS	KEY	FILE#
Benzene	<3ug/l		VM2376
trans-1,3-Dichloropropene	<3ug/l		VM2376
Bromoform	<3ug/l		VM2376
4-Methyl-2-pentanone	<10ug/l		VM2376
2-Hexanone	<10ug/l		VM2376
Tetrachloroethene	<3ug/l		VM2376
1,1,2,2-Tetrachloroethane	<3ug/l		VM2376
Toluene	<3ug/l		VM2376
Chlorobenzene	<3ug/l		VM2376
Ethylbenzene	<3ug/l		VM2376
Styrene	<3ug/l		VM2376
m-Xylene and p-Xylene	<3ug/l		VM2376
o-Xylene	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: GJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
MW-201 1030H 04/28/99 G

ULI I.D.: 11899149 Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field Dissolved Oxygen	3.81mg/l		FIELD
	Field Eh	21.3mV		FIELD
	Field pH	7.81SU		FIELD
	Field Specific Conductivity	601umhos/cm		FIELD
	Field TRC	0.06mg/lCl2		FIELD
	Static Water Level	14.53'		FIELD
	Temperature	12.40degC		FIELD
	BOD5	<4mg/l		WC5760
	MBAS	<0.05mg/lLAS		WC5766
	Nitrite-Nitrogen	<0.05mg/l		WC5740
	Nitrate-Nitrogen	<0.2mg/l		WC5740
	Total Alkalinity	340mg/lCaCO3		WC5781
	Chloride	23mg/l		WC5798
	COD	<20mg/l		WC5786
	Ammonia-Nitrogen	0.6mg/l		WC5764
	Sulfide	<0.1mg/l		WC5793
	Sulfate	100mg/l		WC5794
	Total Dissolved Solids	510mg/l		WC5751
Total	Sodium	49mg/l		MB0991
Dissolved	Iron	0.08mg/l		MB0987

TCL Volatiles by EPA Method 8260

	Chloromethane	<3ug/l	VM2376
	Bromomethane	<3ug/l	VM2376
	Vinyl Chloride	<2ug/l	VM2376
	Chloroethane	<3ug/l	VM2376
	Methylene Chloride	9ug/l	VM2376
	Acetone	<10ug/l	VM2376
	Carbon Disulfide	<3ug/l	VM2376
	1,1-Dichloroethene	<3ug/l	VM2376
	1,1-Dichloroethane	<3ug/l	VM2376
	trans-1,2-Dichloroethene	<3ug/l	VM2376
	cis-1,2-Dichloroethene	<3ug/l	VM2376
	Chloroform	<3ug/l	VM2376
	1,2-Dichloroethane	<3ug/l	VM2376
	2-Butanone	<10ug/l	VM2376
	1,1,1-Trichloroethane	<3ug/l	VM2376
	Carbon Tetrachloride	<3ug/l	VM2376
	Bromodichloromethane	<3ug/l	VM2376
	1,2-Dichloropropane	<3ug/l	VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD JT
Lab I.D.: 10170
HB FULLER GENEVA
MW-201 1030H 04/28/99 G

ULI I.D.: 11899149
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
cis-1,3-Dichloropropene	<3ug/l		VM2376
Trichloroethene	<3ug/l		VM2376
Dibromochloromethane	<3ug/l		VM2376
1,1,2-Trichloroethane	<3ug/l		VM2376
Benzene	<3ug/l		VM2376
trans-1,3-Dichloropropene	<3ug/l		VM2376
Bromoform	<3ug/l		VM2376
4-Methyl-2-pentanone	<10ug/l		VM2376
2-Hexanone	<10ug/l		VM2376
Tetrachloroethene	<3ug/l		VM2376
1,1,2,2-Tetrachloroethane	<3ug/l		VM2376
Toluene	<3ug/l		VM2376
Chlorobenzene	<3ug/l		VM2376
Ethylbenzene	<3ug/l		VM2376
Styrene	<3ug/l		VM2376
m-Xylene and p-Xylene	<3ug/l		VM2376
o-Xylene	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
MW-202 1015H 04/28/99 G

ULI I.D.: 11899150 Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field Dissolved Oxygen	3.87mg/l		FIELD
	Field Eh	140.0mV		FIELD
	Field pH	11.97SU		FIELD
	Field Specific Conductivity	1121umhos/cm		FIELD
	Field TRC	0.06mg/lCl2		FIELD
	Static Water Level	12.66'		FIELD
	Temperature	11.80degC		FIELD
	BOD5	4mg/l		WC5760
	MBAS	<0.05mg/lLAS		WC5766
	Nitrite-Nitrogen	0.15mg/l		WC5740
	Nitrate-Nitrogen	0.4mg/l		WC5740
	Total Alkalinity	220mg/lCaCO3		WC5781
	Chloride	27mg/l		WC5798
	COD	30mg/l		WC5786
	Ammonia-Nitrogen	<0.5mg/l		WC5764
	Sulfide	<0.1mg/l		WC5793
	Sulfate	79mg/l		WC5794
	Total Dissolved Solids	440mg/l		WC5751
Total	Sodium	74mg/l		MB1005
Dissolved	Iron	0.04mg/l		MB1004
	TCL Volatiles by EPA Method 8260			
	Chloromethane	<3ug/l		VM2376
	Bromomethane	<3ug/l		VM2376
	Vinyl Chloride	<2ug/l		VM2376
	Chloroethane	<3ug/l		VM2376
	Methylene Chloride	18ug/l	44	VM2376
	Acetone	<10ug/l		VM2376
	Carbon Disulfide	<3ug/l		VM2376
	1,1-Dichloroethene	<3ug/l		VM2376
	1,1-Dichloroethane	<3ug/l		VM2376
	trans-1,2-Dichloroethene	<3ug/l		VM2376
	cis-1,2-Dichloroethene	<3ug/l		VM2376
	Chloroform	<3ug/l		VM2376
	1,2-Dichloroethane	<3ug/l		VM2376
	2-Butanone	<10ug/l		VM2376
	1,1,1-Trichloroethane	<3ug/l		VM2376
	Carbon Tetrachloride	<3ug/l		VM2376
	Bromodichloromethane	<3ug/l		VM2376
	1,2-Dichloropropane	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: GS
QC: PD JF
Lab I.D.: 10170
HB FULLER GENEVA
MW-202 1015H 04/28/99 G

ULI I.D.: 11899150
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
cis-1,3-Dichloropropene	<3ug/l		VM2376
Trichloroethene	<3ug/l		VM2376
Dibromochloromethane	<3ug/l		VM2376
1,1,2-Trichloroethane	<3ug/l		VM2376
Benzene	<3ug/l		VM2376
trans-1,3-Dichloropropene	<3ug/l		VM2376
Bromoform	<3ug/l		VM2376
4-Methyl-2-pentanone	<10ug/l		VM2376
2-Hexanone	<10ug/l		VM2376
Tetrachloroethene	<3ug/l		VM2376
1,1,2,2-Tetrachloroethane	<3ug/l		VM2376
Toluene	<3ug/l		VM2376
Chlorobenzene	<3ug/l		VM2376
Ethylbenzene	<3ug/l		VM2376
Styrene	<3ug/l		VM2376
m-Xylene and p-Xylene	<3ug/l		VM2376
o-Xylene	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD JF
Lab I.D.: 10170
HB FULLER GENEVA
MW-203 1350H 04/28/99 G

ULI I.D.: 11899151 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Field Dissolved Oxygen	1.91mg/l		FIELD
Field Eh	190.1mV		FIELD
Field pH	7.62SU		FIELD
Field Specific Conductivity	529.0umhos/cm		FIELD
Static Water Level	6.64'		FIELD
Temperature	11.83degC		FIELD
MBAS	<0.05mg/lLAS		WC5766
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2377
Bromomethane	<3ug/l		VM2377
Vinyl Chloride	<2ug/l		VM2377
Chloroethane	<3ug/l		VM2377
Methylene Chloride	13ug/l	44	VM2377
Acetone	<10ug/l		VM2377
Carbon Disulfide	<3ug/l		VM2377
1,1-Dichloroethene	<3ug/l		VM2377
1,1-Dichloroethane	<3ug/l		VM2377
trans-1,2-Dichloroethene	<3ug/l		VM2377
cis-1,2-Dichloroethene	<3ug/l		VM2377
Chloroform	<3ug/l		VM2377
1,2-Dichloroethane	<3ug/l		VM2377
2-Butanone	<10ug/l		VM2377
1,1,1-Trichloroethane	<3ug/l		VM2377
Carbon Tetrachloride	<3ug/l		VM2377
Bromodichloromethane	<3ug/l		VM2377
1,2-Dichloropropane	<3ug/l		VM2377
cis-1,3-Dichloropropene	<3ug/l		VM2377
Trichloroethene	<3ug/l		VM2377
Dibromochloromethane	<3ug/l		VM2377
1,1,2-Trichloroethane	<3ug/l		VM2377
Benzene	<3ug/l		VM2377
trans-1,3-Dichloropropene	<3ug/l		VM2377
Bromoform	<3ug/l		VM2377
4-Methyl-2-pentanone	<10ug/l		VM2377
2-Hexanone	<10ug/l		VM2377
Tetrachloroethene	<3ug/l		VM2377
1,1,2,2-Tetrachloroethane	<3ug/l		VM2377
Toluene	<3ug/l		VM2377
Chlorobenzene	<3ug/l		VM2377

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PO
Lab I.D.: 10170
HB FULLER GENEVA
MW-203 1350H 04/28/99 G

ULI I.D.: 11899151
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Ethylbenzene	<3ug/l		VM2377
Styrene	<3ug/l		VM2377
m-Xylene and p-Xylene	3ug/l		VM2377
o-Xylene	<3ug/l		VM2377

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: GJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
STREAM A 1520H 04/28/99 G

ULI I.D.: 11899152 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Static Water Level	1.82'		FIELD
MBAS	<0.05mg/lLAS		WC5766
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2376
Bromomethane	<3ug/l		VM2376
Vinyl Chloride	<2ug/l		VM2376
Chloroethane	<3ug/l		VM2376
Methylene Chloride	14ug/l	44	VM2376
Acetone	<10ug/l		VM2376
Carbon Disulfide	<3ug/l		VM2376
1,1-Dichloroethene	<3ug/l		VM2376
1,1-Dichloroethane	<3ug/l		VM2376
trans-1,2-Dichloroethene	<3ug/l		VM2376
cis-1,2-Dichloroethene	<3ug/l		VM2376
Chloroform	<3ug/l		VM2376
1,2-Dichloroethane	<3ug/l		VM2376
2-Butanone	<10ug/l		VM2376
1,1,1-Trichloroethane	<3ug/l		VM2376
Carbon Tetrachloride	<3ug/l		VM2376
Bromodichloromethane	<3ug/l		VM2376
1,2-Dichloropropane	<3ug/l		VM2376
cis-1,3-Dichloropropene	<3ug/l		VM2376
Trichloroethene	<3ug/l		VM2376
Dibromochloromethane	<3ug/l		VM2376
1,1,2-Trichloroethane	<3ug/l		VM2376
Benzene	<3ug/l		VM2376
trans-1,3-Dichloropropene	<3ug/l		VM2376
Bromoform	<3ug/l		VM2376
4-Methyl-2-pentanone	<10ug/l		VM2376
2-Hexanone	<10ug/l		VM2376
Tetrachloroethene	<3ug/l		VM2376
1,1,2,2-Tetrachloroethane	<3ug/l		VM2376
Toluene	<3ug/l		VM2376
Chlorobenzene	<3ug/l		VM2376
Ethylbenzene	<3ug/l		VM2376
Styrene	<3ug/l		VM2376
m-Xylene and p-Xylene	<3ug/l		VM2376
o-Xylene	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: _____
QC: PD _____
Lab I.D.: 10170
HB FULLER GENEVA
MW-112 1200H 04/28/99 G

ULI I.D.: 11899140 Matrix: Soil

PARAMETERS	RESULTS	KEY	FILE#
TOC	5434mg/kg		SC0001

dw = Dry weight

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
STREAM B 1525H 04/28/99 G

ULI I.D.: 11899153 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Static Water Level	2.10'		FIELD
MBAS	<0.05mg/lLAS		WC5766
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2376
Bromomethane	<3ug/l		VM2376
Vinyl Chloride	<2ug/l		VM2376
Chloroethane	<3ug/l		VM2376
Methylene Chloride	10ug/l	44	VM2376
Acetone	<10ug/l		VM2376
Carbon Disulfide	<3ug/l		VM2376
1,1-Dichloroethene	<3ug/l		VM2376
1,1-Dichloroethane	<3ug/l		VM2376
trans-1,2-Dichloroethene	<3ug/l		VM2376
cis-1,2-Dichloroethene	<3ug/l		VM2376
Chloroform	<3ug/l		VM2376
1,2-Dichloroethane	<3ug/l		VM2376
2-Butanone	<10ug/l		VM2376
1,1,1-Trichloroethane	<3ug/l		VM2376
Carbon Tetrachloride	<3ug/l		VM2376
Bromodichloromethane	<3ug/l		VM2376
1,2-Dichloropropane	<3ug/l		VM2376
cis-1,3-Dichloropropene	<3ug/l		VM2376
Trichloroethene	<3ug/l		VM2376
Dibromochloromethane	<3ug/l		VM2376
1,1,2-Trichloroethane	<3ug/l		VM2376
Benzene	<3ug/l		VM2376
trans-1,3-Dichloropropene	<3ug/l		VM2376
Bromoform	<3ug/l		VM2376
4-Methyl-2-pentanone	<10ug/l		VM2376
2-Hexanone	<10ug/l		VM2376
Tetrachloroethene	<3ug/l		VM2376
1,1,2,2-Tetrachloroethane	<3ug/l		VM2376
Toluene	<3ug/l		VM2376
Chlorobenzene	<3ug/l		VM2376
Ethylbenzene	<3ug/l		VM2376
Styrene	<3ug/l		VM2376
m-Xylene and p-Xylene	<3ug/l		VM2376
o-Xylene	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
STREAM C 1532H 04/28/99 G

ULI I.D.: 11899154 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Static Water Level	1.32'		FIELD
MBAS	0.07mg/lLAS		WC5766
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2376
Bromomethane	<3ug/l		VM2376
Vinyl Chloride	<2ug/l		VM2376
Chloroethane	<3ug/l		VM2376
Methylene Chloride	10ug/l	44	VM2376
Acetone	<10ug/l		VM2376
Carbon Disulfide	<3ug/l		VM2376
1,1-Dichloroethene	<3ug/l		VM2376
1,1-Dichloroethane	<3ug/l		VM2376
trans-1,2-Dichloroethene	<3ug/l		VM2376
cis-1,2-Dichloroethene	<3ug/l		VM2376
Chloroform	<3ug/l		VM2376
1,2-Dichloroethane	<3ug/l		VM2376
2-Butanone	<10ug/l		VM2376
1,1,1-Trichloroethane	<3ug/l		VM2376
Carbon Tetrachloride	<3ug/l		VM2376
Bromodichloromethane	<3ug/l		VM2376
1,2-Dichloropropane	<3ug/l		VM2376
cis-1,3-Dichloropropene	<3ug/l		VM2376
Trichloroethene	<3ug/l		VM2376
Dibromochloromethane	<3ug/l		VM2376
1,1,2-Trichloroethane	<3ug/l		VM2376
Benzene	<3ug/l		VM2376
trans-1,3-Dichloropropene	<3ug/l		VM2376
Bromoform	<3ug/l		VM2376
4-Methyl-2-pentanone	<10ug/l		VM2376
2-Hexanone	<10ug/l		VM2376
Tetrachloroethene	<3ug/l		VM2376
1,1,2,2-Tetrachloroethane	<3ug/l		VM2376
Toluene	<3ug/l		VM2376
Chlorobenzene	<3ug/l		VM2376
Ethylbenzene	<3ug/l		VM2376
Styrene	<3ug/l		VM2376
m-Xylene and p-Xylene	<3ug/l		VM2376
o-Xylene	<3ug/l		VM2376

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: GJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
ULI TRIP BLANK 04/28/99

ULI I.D.: 11899155 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2377
Bromomethane	<3ug/l		VM2377
Vinyl Chloride	<2ug/l		VM2377
Chloroethane	<3ug/l		VM2377
Methylene Chloride	13ug/l	44	VM2377
Acetone	12ug/l	44	VM2377
Carbon Disulfide	<3ug/l		VM2377
1,1-Dichloroethene	<3ug/l		VM2377
1,1-Dichloroethane	<3ug/l		VM2377
trans-1,2-Dichloroethene	<3ug/l		VM2377
cis-1,2-Dichloroethene	<3ug/l		VM2377
Chloroform	<3ug/l		VM2377
1,2-Dichloroethane	<3ug/l		VM2377
2-Butanone	<10ug/l		VM2377
1,1,1-Trichloroethane	<3ug/l		VM2377
Carbon Tetrachloride	<3ug/l		VM2377
Bromodichloromethane	<3ug/l		VM2377
1,2-Dichloropropane	<3ug/l		VM2377
cis-1,3-Dichloropropene	<3ug/l		VM2377
Trichloroethene	<3ug/l		VM2377
Dibromochloromethane	<3ug/l		VM2377
1,1,2-Trichloroethane	<3ug/l		VM2377
Benzene	<3ug/l		VM2377
trans-1,3-Dichloropropene	<3ug/l		VM2377
Bromoform	<3ug/l		VM2377
4-Methyl-2-pentanone	<10ug/l		VM2377
2-Hexanone	<10ug/l		VM2377
Tetrachloroethene	<3ug/l		VM2377
1,1,2,2-Tetrachloroethane	<3ug/l		VM2377
Toluene	<3ug/l		VM2377
Chlorobenzene	<3ug/l		VM2377
Ethylbenzene	<3ug/l		VM2377
Styrene	<3ug/l		VM2377
m-Xylene and p-Xylene	<3ug/l		VM2377
o-Xylene	<3ug/l		VM2377

DATE: 05/13/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 11899140
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: CJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
EQUIPMENT BLANK 1530H 04/28/99 G

ULI I.D.: 11899156
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2377
Bromomethane	<3ug/l		VM2377
Vinyl Chloride	<2ug/l		VM2377
Chloroethane	<3ug/l		VM2377
Methylene Chloride	14ug/l	44	VM2377
Acetone	<10ug/l		VM2377
Carbon Disulfide	<3ug/l		VM2377
1,1-Dichloroethene	<3ug/l		VM2377
1,1-Dichloroethane	<3ug/l		VM2377
trans-1,2-Dichloroethene	<3ug/l		VM2377
cis-1,2-Dichloroethene	<3ug/l		VM2377
Chloroform	<3ug/l		VM2377
1,2-Dichloroethane	<3ug/l		VM2377
2-Butanone	<10ug/l		VM2377
1,1,1-Trichloroethane	<3ug/l		VM2377
Carbon Tetrachloride	<3ug/l		VM2377
Bromodichloromethane	<3ug/l		VM2377
1,2-Dichloropropane	<3ug/l		VM2377
cis-1,3-Dichloropropene	<3ug/l		VM2377
Trichloroethene	<3ug/l		VM2377
Dibromochloromethane	<3ug/l		VM2377
1,1,2-Trichloroethane	<3ug/l		VM2377
Benzene	<3ug/l		VM2377
trans-1,3-Dichloropropene	<3ug/l		VM2377
Bromoform	<3ug/l		VM2377
4-Methyl-2-pentanone	<10ug/l		VM2377
2-Hexanone	<10ug/l		VM2377
Tetrachloroethene	<3ug/l		VM2377
1,1,2,2-Tetrachloroethane	<3ug/l		VM2377
Toluene	<3ug/l		VM2377
Chlorobenzene	<3ug/l		VM2377
Ethylbenzene	<3ug/l		VM2377
Styrene	<3ug/l		VM2377
m-Xylene and p-Xylene	<3ug/l		VM2377
o-Xylene	<3ug/l		VM2377

Upstate Laboratories, Inc.

6034 Corporate Drive E. Syracuse New York 13057
(315) 437 0255 Fax 437 1209

Chain of Custody Record

5112

Client	Client Contact	Phone #	Project #/ Project Name	Address
Delta Environmental	Steve Zbur	412-487-7700	HB Fuller Geneva	Geneva, NY

Sample ID	Date	Time	Matrix	GRAB or COMP	ULI Internal Use Only	No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	11)	12)	Remarks
MW-101	4/27/99	1550	Water	Grab	11899082	(9)	X	X	X	X	X	X	X	X	X	X	X		TRC = .04 mg/L
MW-102	4/27/99	1455	"	"	83	(8)	X	X	X	X	X	X	X	X	X	X	X		TRC = .08 mg/L
~~MW-103~~			"	"		~~8~~	X	X	X	X	X	X	X	X	X	X	X		TRC =
~~MW-104~~			"	"		~~3~~	X		X		X						X		
~~MW-105~~			"	"		~~6~~	X	X	X	X		X	X	X	X	X			TRC =
~~MW-106~~			"	"		~~6~~	X	X		X		X	X	X	X	X			TRC =
MW-107	4/27/99	510	"	"	84	(6)	X	X		X		X	X	X	X	X			TRC = .02 mg/L
~~MW-108~~			"	"		~~8~~	X	X	X	X	X	X	X	X	X	X	X		TRC =
MW-109	4/27/99	1319	"	"	85	(3)	X		X		X						X		
~~MW-110~~			"	"		~~3~~	X		X		X						X		
~~MW-111~~			"	"		~~8~~	X	X	X	X	X	X	X	X	X	X	X		TRC =
~~MW-112~~			"	"		~~8~~	X	X	X	X	X	X	X	X	X	X	X		TRC =
~~MW-113~~			"	"		~~8~~	X	X	X	X	X	X	X	X	X	X	X		TRC =
~~MW-201~~			"	"		~~8~~	X	X	X	X	X	X	X	X	X	X	X		TRC =
~~MW-202~~			"	"		~~8~~	X	X	X	X	X	X	X	X	X	X	X		TRC =
~~MW-203~~			"	"		~~3~~	X		X		X						X		
~~Stream A~~			"	"		~~3~~	X				X						X		
~~Stream B~~			"	"		~~3~~	X				X						X		
~~Stream C~~ MW-113	(4-27-99)	(1115)	Soil	"	86	(1) ~~3~~	~~X~~ PR				~~X~~ PR						~~X~~	X	ULI PO 5131 (TOC only)
~~ULI Trip Blank~~			"	"		~~1~~											X		
~~Equipment Blank~~			"	"		~~2~~											X		

Parameter and Method	Sample bottle: Type	Size	Preservative
1) SWL (field)	*****	*****	*****
2) TRC ↓	*****	*****	*****
3) pH,DO,Specific Conductance,Temp.,ORP (field)	*****	*****	*****
4) NO_2,NO_3,SO_4,Cl^-,TDS,BOD_5	Plastic	1/2 gallon	None
5) MBAS	Same	Same	Same
6) Sulfide	Plastic	120 ml.	ZnAce./NaOH
7) T-Alkalinity	Glass	8 oz.	None
8) NH_3,COD	Plastic	500 ml.	H_2SO_4
9) T-Na	Plastic	500 ml.	HNO_3
10) D-Fe	Plastic	500 ml.	HNO_3
11) EPA 8260	Glass	(2) 40 ml	1:1 HCl
12) TOC			

Sampled by (Print): Pete Rundkn

Company: UCI

Relinquished by:(sign)	Date	Time	Received by: (sign)
[signature]	4-27-99	6:00	Rec'd for Lab by: H Dowe

ULI Internal Use Only

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (N.J)

12/02/98 SMB

Upstate Laboratories, Inc.
6034 Corporate Drive E. Syracuse New York 13057
(315) 437 0255 Fax 437 1209

Chain of Custody Record

5/12

Client: Delta Environmental
Client Contact: Steve Zbur
Phone #: 412-487-7700
Project #/ Project Name: HB Fuller Geneva
Address: Geneva, NY

Sample ID	Date	Time	Matrix	GRAB or COMP	ULI Internal Use Only	No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	11)	12)	Remarks
MW-101	—	—	Water	Grab		~~9~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~TRC =~~
MW-102	—	—	"	"		8	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~TRC = .04~~
MW-103	4/28/99	1008	"	"	11899141	(8)	X	X	X	X	X	X	X	X	X	X	X		TRC = .04
MW-104	4/28/99	1102	"	"	142	(3)	X		X		X						X		
MW-105	4/28/99	1058	"	"	143	(6)	X	X	X	X		X	X	X	X	X			TRC = .03
MW-106	4/28/99	2:01	"	"	144	(6)	X	X		X		X	X	X	X	X			TRC = .02
MW-107	—	—	"	"		~~6~~	~~X~~	~~X~~		~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~TRC = .0~~
MW-108	4/28/99	1:10	"	"	145	(8)	X	X	X	X	X	X	X	X	X	X	X		TRC = .04
MW-109	—		"	"		~~3~~	~~X~~		~~X~~		~~X~~						~~X~~		
MW-110	—	NO SAMPLE	"	"	DRY WELL	~~3~~	~~X~~		~~X~~		~~X~~						~~X~~		
MW-111	4/28/99	1006	"	"	146	(2) ~~8~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	X		TRC = .04
MW-112	4/28/99	240	"	"	147	(8)	X	X	X	X	X	X	X	X	X	X	X		TRC = .04
MW-113	4/28/99	1153	"	"	148	(8)	X	X	X	X	X	X	X	X	X	X	X		TRC = .04
MW-201	4/28/99	1030	"	"	149	(8)	X	X	X	X	X	X	X	X	X	X	X		TRC = .06
MW-202	4/28/99	1015	"	"	150	(8)	X	X	X	X	X	X	X	X	X	X	X		TRC = .06
MW-203	4/28/99	150	"	"	151	(3)	X		X		X						X		
Stream A	4/28/99	320	"	"	152	(3)	X				X						X		
Stream B	4/28/99	325	"	"	153	(3)	X				X						X		
Stream C	4/28/99	332	"	"	154	(3)	X				X						X		
ULI Trip Blank	4/26/99	N/A	"	"	155	(1)											X		
Equipment Blank	4/28/99	330	"	"	156	(2)											X		

Parameter and Method	Sample bottle: Type	Size	Preservative
1) SWL (FIELD)	*****	*****	*****
2) TRC ↓	*****	*****	*****
3) pH,DO,Specific Conductance,Temp.,ORP (FIELD)	*****	*****	*****
4) NO_2,NO_3,SO_4,Cl^-,TDS,BOD_5	Plastic	1/2 gallon	None
5) MBAS	Same	Same	Same
6) Sulfide	Plastic	120 ml.	ZnAce./NaOH
7) T-Alkalinity	Glass	8 oz.	None
8) NH_3,COD	Plastic	500 ml.	H_2SO_4
9) T-Na	Plastic	500 ml.	HNO_3
10) D-Fe	Plastic	500 ml.	HNO_3
11) EPA 8260	Glass	(2) 40 ml	1:1 HCl
12)			

Sampled by (Print): PETE Rundell
Company: ULI

ULI Internal Use Only

Relinquished by: (sign)	Date	Time	Received by: (sign)
[signature]	4/29/99	340	Rec'd for Lab by: HDm

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

5/12

Upstate Laboratories, Inc.
6034 Corporate Drive E. Syracuse New York 13057
(315) 437 0255 Fax 437 1209

Chain of Custody Record

Client: Delta Environmental
Project #/ Project Name: HB Fuller Geneva
Client Contact: Steve Zbur
Phone #: 412-487-7700
Address: Geneva, NY

Location	Date	Time	Matrix	GRAB or COMP	ULI Internal Use Only	No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	11)	12)	Remarks
MW-112	4/28/94	12:00	Soil	Grab	11899140	(1)	X												ULI PO S132
~~MW-113~~	~~"~~	~~"~~	~~"~~	~~"~~		~~1~~	~~X~~												

Parameter and Method	Sample bottle: Type	Size	Preservative
1) TOC	Glass	4 oz.	None
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			
11)			
12)			

Sampled by (Print): Pete Rundell
Company: UCE

ULI Internal Use Only

Relinquished by:(sign)	Date	Time	Received by: (sign)
Relinquished by:(sign)	Date	Time	Received by: (sign)
Relinquished by:(sign)	Date	Time	Rec'd for Lab by:
[signature]	4/29/94	3 40	HOm

Syracuse Rochester Buffalo Albany **Binghamton** Fair Lawn (NJ)

KEY PAGE

1 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS
2 MATRIX INTERFERENCE
3 PRESENT IN BLANK
4 ANALYSIS NOT PERFORMED BECAUSE OF INSUFFICIENT SAMPLE
5 THE PRESENCE OF OTHER TARGET ANALYTE(S) PRECLUDES LOWER DETECTION LIMITS
6 BLANK CORRECTED
7 HEAD SPACE PRESENT IN SAMPLE
8 QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.
9 THE OIL WAS TREATED AS A SOLID AND LEACHED WITH EXTRACTION FLUID
10 ADL(AVERAGE DETECTION LIMITS)
11 PQL(PRACTICAL QUANTITATION LIMITS)
12 SAMPLE ANALYZED OVER HOLDING TIME
13 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL DUE TO CONTAMINATION FROM THE FILTERING PROCEDURE
14 SAMPLED BY ULI
15 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL; HOWEVER, THE VALUES ARE WITHIN EXPERIMENTAL ERROR
16 AN INHIBITORY FACTOR WAS OBSERVED IN THIS ANALYSIS
17 PARAMETER NOT ANALYZED WITHIN 15 MINUTES OF SAMPLING
18 THE SERIAL DILUTION OF THIS SAMPLE SUGGESTS A POSSIBLE PHYSICAL AND/OR CHEMICAL INTERFERENT IN THIS DETERMINATION. THE DATA MAY BE BIASED EITHER HIGH OR LOW.
19 CALCULATION BASED ON DRY WEIGHT
20 INDICATES AN ESTIMATED VALUE, DETECTED BUT BELOW THE PRACTICAL QUANTITATION LIMITS
21 UG/KG AS REC.D / UG/KG DRY WT
22 MG/KG AS REC.D / MG/KG DRY WT
23 INSUFFICIENT SAMPLE PRECLUDES LOWER DETECTION LIMITS
24 SAMPLE DILUTED/BLANK CORRECTED
25 ND(NON-DETECTED)
26 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS/BLANK CORRECTED
27 SPIKE RECOVERY ABNORMALLY HIGH/LOW DUE TO MATRIX INTERFERENCE
28 POST-DIGESTION SPIKE FOR FURNACE AA ANALYSIS IS OUTSIDE OF THE CONTROL LIMITS (85-115%); HOWEVER, THE SAMPLE CONCENTRATION IS BELOW THE PQL
29 ANALYZED BY METHOD OF STANDARD ADDITIONS
30 METHOD PERFORMANCE STUDY HAS NOT BEEN COMPLETED/ND(NON-DETECTED)
31 FIELD MEASURED PARAMETER TAKEN BY CLIENT
32 TARGET ANALYTE IS BIODEGRADED AND/OR ENVIRONMENTALLY WEATHERED
33 NON-POTABLE WATER SOURCE
34 VOLATILE ASP CODES

(B)POSSIBLE/PROBABLE BLANK CONTAMINATION (D)ALL COMPOUNDS IDENTIFIED AT A SECONDARY DILUTION FACTOR (J)ESTIMATED VALUE
35 THE HYDROCARBONS DETECTED IN THE SAMPLE DID NOT CROSS-MATCH WITH COMMON PETROLEUM DISTILLATES
36 MATRIX INTERFERENCE CAUSING SPIKES TO RESULT IN LESS THAN 50.0% RECOVERY
37 MILLIGRAMS PER LITER (MG/L) / POUNDS (LBS) PER DAY
38 MILLIGRAMS PER LITER (MG/L) OF RESIDUAL CHLORINE (CL2) / POUNDS (LBS) PER DAY OF CL2
39 MICROGRAMS PER LITER (UG/L) / POUNDS (LBS) PER DAY
40 MILLIGRAMS PER LITER (MG/L) LINEAR ALKYL SULFONATE (LAS) / POUNDS (LBS) PER DAY LAS
41 RESULTS ARE REPORTED ON AN AS REC.D BASIS
42 THE SAMPLE WAS ANALYZED ON A TOTAL BASIS; THE TEST RESULT CAN BE COMPARED TO THE TCLP REGULATORY CRITERIA BY DIVIDING THE TEST RESULT BY 20, CREATING A THEORETICAL TCLP VALUE
43 METAL BY CONCENTRATION PROCEDURE
44 POSSIBLE CONTAMINATION FROM FIELD/LABORATORY

KEY PAGE

1 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS
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29 ANALYZED BY METHOD OF STANDARD ADDITIONS
30 METHOD PERFORMANCE STUDY HAS NOT BEEN COMPLETED/ND(NON-DETECTED)
31 FIELD MEASURED PARAMETER TAKEN BY CLIENT
32 TARGET ANALYTE IS BIODEGRADED AND/OR ENVIRONMENTALLY WEATHERED
33 NON-POTABLE WATER SOURCE
34 VOLATILE ASP CODES

(B)POSSIBLE/PROBABLE BLANK CONTAMINATION (D)ALL COMPOUNDS IDENTIFIED AT A SECONDARY DILUTION FACTOR (J)ESTIMATED VALUE
35 THE HYDROCARBONS DETECTED IN THE SAMPLE DID NOT CROSS-MATCH WITH COMMON PETROLEUM DISTILLATES
36 MATRIX INTERFERENCE CAUSING SPIKES TO RESULT IN LESS THAN 50.0% RECOVERY
37 MILLIGRAMS PER LITER (MG/L) / POUNDS (LBS) PER DAY
38 MILLIGRAMS PER LITER (MG/L) OF RESIDUAL CHLORINE (CL2) / POUNDS (LBS) PER DAY OF CL2
39 MICROGRAMS PER LITER (UG/L) / POUNDS (LBS) PER DAY
40 MILLIGRAMS PER LITER (MG/L) LINEAR ALKYL SULFONATE (LAS) / POUNDS (LBS) PER DAY LAS
41 RESULTS ARE REPORTED ON AN AS REC.D BASIS
42 THE SAMPLE WAS ANALYZED ON A TOTAL BASIS; THE TEST RESULT CAN BE COMPARED TO THE TCLP REGULATORY CRITERIA BY DIVIDING THE TEST RESULT BY 20, CREATING A THEORETICAL TCLP VALUE
43 METAL BY CONCENTRATION PROCEDURE
44 POSSIBLE CONTAMINATION FROM FIELD/LABORATORY

Upstate Laboratories, Inc.

Groundwater Field Log

Client: Delta Environmental

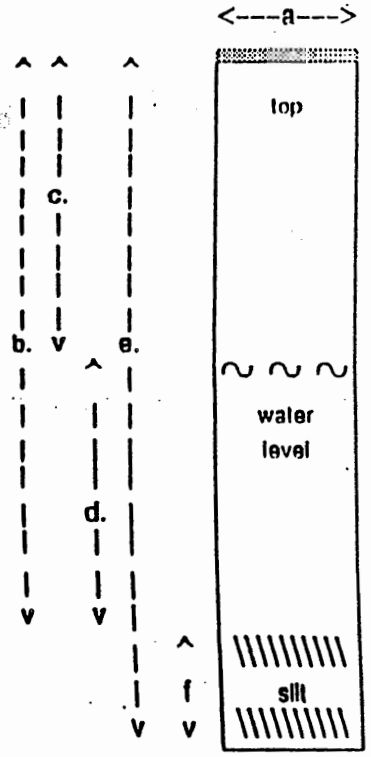
Project: HB Fuller Geneva

Well ID: Mw - 101 ULI ID No. (entered by lab)

Condition of Well: Good **Locked:** yes no

Method of Evacuation: Peristalic Pump **Lock ID:**

Method of Sampling: Peristaltic Pump



a.	Diameter	2"	inches
b.	Well Depth Measured	17.40	feet
c.	Depth to Water	7.99	feet
d.	Length of Water Column (calculated)	9.41	feet
	Conversion Factor	.16	-
	Well Volume (calculated)	1.50	gallons
	No. of Volumes to be Evacuated	3	-
	Total Volume to be Evacuated	4.51	gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

				Units
			Final	
date	4/27/99	4/27/99	4/27/99	-
time	328	339	350	-
EH	-16.2	-59.3	-42.4	mV
temperature	9.43	8.68	8.97	deline
pH	7.87	7.39	7.15	std. units
specific conductivity	460.0	469.0	519	umhos/cm
~~turbidity~~ DO	1.83	2.20	2.31	NTU
appearance	ORANGE	Cloudy	Cloudy	-

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Weather: 70° Sunny

Observations:

Sampler: Pete Rundell

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: DELTA ENVIRONMENTAL

Project: MB Fuller Geneva

Well ID: MW-102

ULI ID No. (entered by ULI):

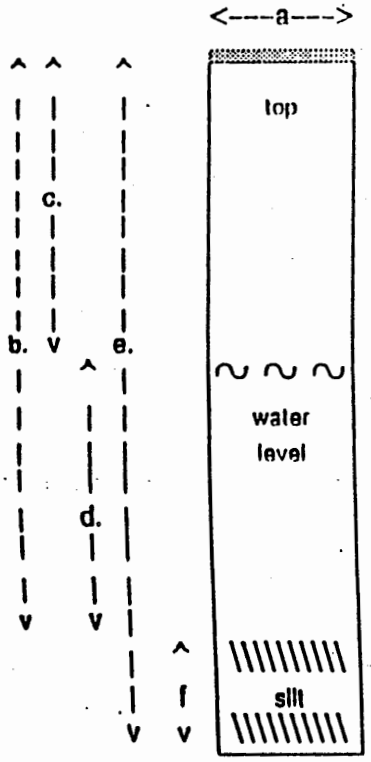
Condition of Well: GOOD

Method of Evacuation: PERISTALIC PUMP

Method of Sampling: PERISTALIC PUMP

Locked: yes no

Lock ID:



a.	Diameter	2	inches
b.	Well Depth Measured	14.89	feet
c.	Depth to Water	5.63	feet
d.	Length of Water Column (calculated)	9.26	feet
	Conversion Factor	.16	-
	Well Volume (calculated)	1.48	gallons
	No. of Volumes to be Evacuated	3	-
	Total Volume to be Evacuated	4.45	gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

	1st	2nd	Final	Final	Units
date	4/27/99	4/27/99	4/27/99		-
time	232	243	255		-
EH	-9.2	-74.4	-82.4		mV
temperature	9.70	8.51	9.51		deline
pH	7.76	7.62	7.62		std. units
specific conductivity	3120	3139.0	3072		umhos/cm
turbidity DO	6.7 ~~6.23~~	7.95	7.61		NTU
appearance	Brown/Cloudy	cloudy	cloudy		-

% Recharge:

Initial Depth to Water _____ fe

Recharge Depth to Water _____ fe

2nd water column height / 1st water column height _____ %

Weather:

Observations: WATER CONTAINED SOAP/Surfactants

Sampler: Dave Rundell

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: DECTA Environmental

Project: MB Fuller Geneva

Well ID: MW-107

ULI ID No. (entered by ULI)

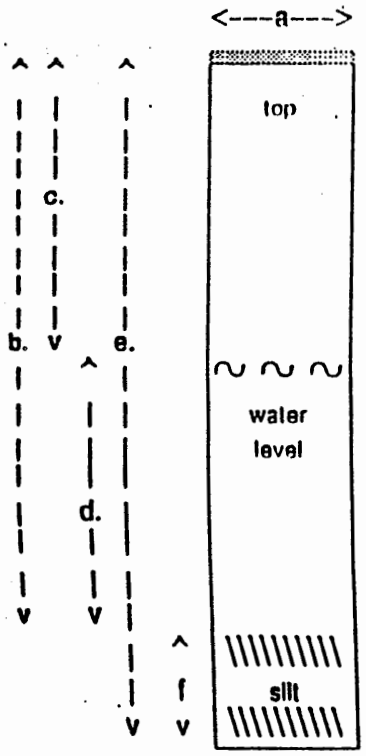
Condition of Well: Good

Method of Evacuation: Peristaltic Pump

Method of Sampling: Peristaltic Pump

Locked: yes no

Lock ID:



a.	Diameter	2"	inches
b.	Well Depth Measured	19.42	feet
c.	Depth to Water	10.44	feet
d.	Length of Water Column (calculated)	8.98	feet
	Conversion Factor	0.16	-
	Well Volume (calculated)	1.44	gallons
	No. of Volumes to be Evacuated	3	-
	Total Volume to be Evacuated	4.32	gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

					Units
				Final	
date	4/27/99	4/27/99		4/27/99	-
time	423	9:35		510	-
EH	42.9 ~~9.90~~	83.7		102.8	mV
temperature	9.90	9.23		9.51	deline
pH	7.62	7.18		7.11	std. units
specific conductivity	360	363		356	umhos/cm
turbidity DO	1.42	1.47		1.55	NTU
appearance	Cloudy	clear		Clear	-

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Weather: Sunny 65-70°F

Observations:

Sampler: Pete Rundell

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: DECA Environmental

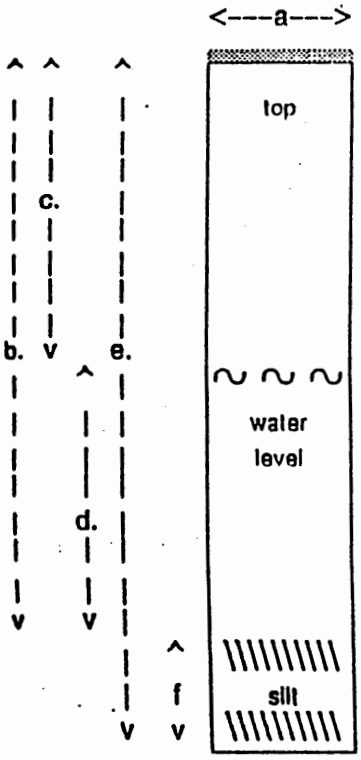
Project: HB Fuller Groups

Well ID: MW-109 | ULI ID No. (entered by lab)

Condition of Well: Good | **Locked:** yes no

Method of Evacuation: Peristaltic Pump | **Lock ID:**

Method of Sampling: Peristaltic Pump



a.	Diameter	1"	inches
b.	Well Depth Measured	13.02	feet
c.	Depth to Water	7.34	feet
d.	Length of Water Column (calculated)	5.68	feet
	Conversion Factor	.08	-
	Well Volume (calculated)	.45	gallons
	No. of Volumes to be Evacuated	3	-
	Total Volume to be Evacuated	1.36	gallons
	Actual Volume Evacuated	1.4	gallons
e.	Installed Well Depth (if known)	-	feet
f.	Depth of Silt (calculated)	-	feet

Field Measurements:

				Units
			Final	
date	4/27/94	4/27/94	4/27/94	-
time	1259	1308	1319	-
EH	156.6 ~~6.88~~	152.6	194.5	mV
temperature	10.90	10.70	10.97	deline
pH	6.89	6.90	7.01	std. units
specific conductivity	1847	1546	1623	umhos/cm
~~turbidity~~ DO	7.3	5.4	6.3	NTU
appearance	Cloudy	Cloudy	Brown	-

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Weather: Sunny 50°F

Observations:

Sampler: Peter Rudall

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: Delta Environmental

Project: HB Fuller General

Well ID: MW-103

ULI ID No. (entered by ULI)

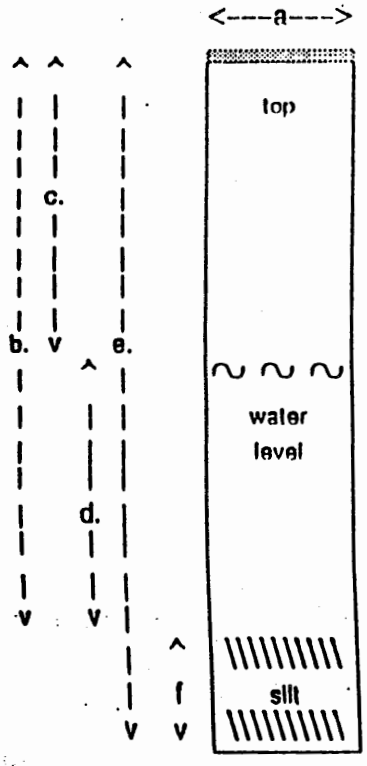
Condition of Well: Good

Method of Evacuation: Peristaltic Pump

Method of Sampling: Peristaltic Pump

Locked: yes no

Lock ID:



a.	Diameter	2"	inches
b.	Well Depth Measured	14.35	feet
c.	Depth to Water	5.56	feet
d.	Length of Water Column (calculated)	8.79	feet
	Conversion Factor	x.16	-
	Well Volume (calculated)	1.40	gallons
	No. of Volumes to be Evacuated	x3	-
	Total Volume to be Evacuated	4.21	gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

				Final	Units
date	4/28/94	4/28/94	4/28/94	4/28/94	-
time	9:50 AM	9:59	10:08	10:08	-
EH	166.0	113.6	102.5		mV
temperature	12.85	11.89	12.29		deline
pH	7.46	7.14	7.91		std. units
specific conductivity	749.0	614.0	963.0		umhos/cm
~~turbidity~~ D.O.	2.68	1.61	3.21		NTU
appearance	cloudy	clear	clear		-

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Weather: Sunny 65-70

Sampler: Pete Rintell

Observations:

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: Delta Environmental

Project: HB Fuller Geneva

Well ID: MW-104

ULI ID No. (entered by ULI):

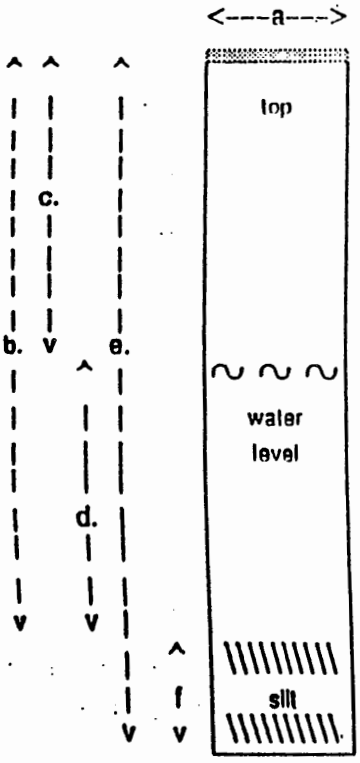
Condition of Well: Good

Method of Evacuation: Peristaltic Pump

Method of Sampling: Peristaltic Pump

Locked: yes no

Lock ID:



a.	Diameter	2	inches
b.	Well Depth Measured	11.90	feet
c.	Depth to Water	4.17	feet
d.	Length of Water Column (calculated)	7.73	feet
	Conversion Factor	x.16	-
	Well Volume (calculated)	1.23	gallons
	No. of Volumes to be Evacuated	x3	-
	Total Volume to be Evacuated	3.71	gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

	4-28-99		4/28/99		Units
date					-
time	10:24AM	10:55AM	11:02AM		-
EH	7.40	8.70	12.50		mV
temperature	11.20	10.98	10.89		deline
pH	7.90	7.81	7.69		std. units
specific conductivity	387.0	384.0	365.0		umhos/cm
~~turbidity~~ DO	1.20	.93	.95		NTU
appearance	Cloudy	cloudy	cloudy		-

% Recharge:

Initial Depth to Water _____ ft

Recharge Depth to Water _____ ft

2nd water column height _____ %

1st water column height

Weather: 65-70 Sunny

Observations:

Sampler: Pete Rundell

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: Delta Environmental

Project: HB Fuller Geneva

Well ID: Mw-105

ULI ID No. (entered by lab)

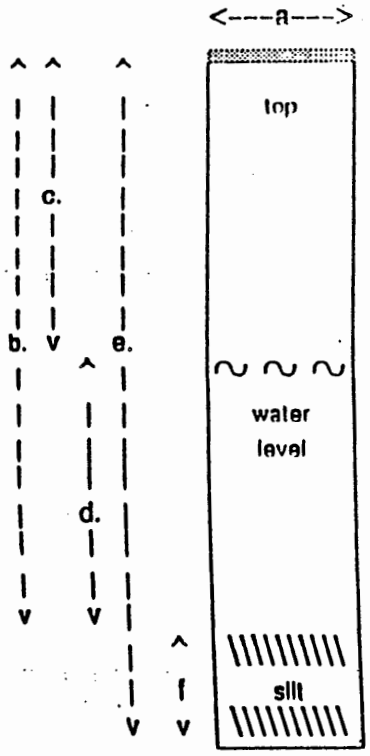
Condition of Well: Good

Method of Evacuation: Peristaltic Pump

Method of Sampling: Peristalic Pump

Locked: yes no

Lock ID:



a.	Diameter	2	inches
b.	Well Depth Measured	14.50	feet
c.	Depth to Water	6.85	feet
d.	Length of Water Column (calculated)	7.65	feet
	Conversion Factor	x.16	-
	Well Volume (calculated)	1.22	gallons
	No. of Volumes to be Evacuated	x3	-
	Total Volume to be Evacuated	3.67	gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

	4-28-99			Final	Units
date	10:46AM	10:51AM		10:58AM	-
time					-
EH	846.0	100.9	126.16		mV
temperature	13.05	11.68	11.94		deline
pH	7.04	6.79	6.69		std. units
specific conductivity	845.0	838.0	882.0		umhos/cm
turbidity DO	3.24	3.52	3.67		NTU
appearance	Brown	clear	clear		-

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Weather:

Observations:

Sampler:

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: DELTA Environmental

Project: HB Fuller Geneva

Well ID: MW-106

ULI ID No. (entered by lab):

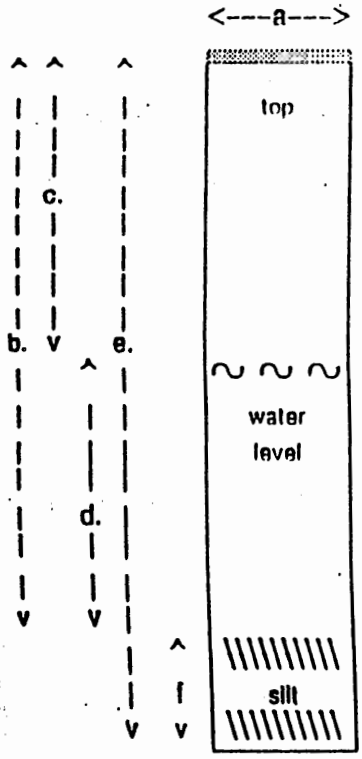
Condition of Well: GOOD

Method of Evacuation: PERISTAC PUMP

Method of Sampling: PERISTACIC PUMP

Locked: yes no

Lock ID:



a.	Diameter	2"	inches
b.	Well Depth Measured	15.60	feet
c.	Depth to Water	3,46	feet
d.	Length of Water Column (calculated)	12,14	feet
	Conversion Factor	x.16	-
	Well Volume (calculated)	1,94	gallons
	No. of Volumes to be Evacuated	x3	-
	Total Volume to be Evacuated	5,82	gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

	4/6/99			Final	Units
date					-
time	1:38	1:52	2:01		-
EH	201,5	215,5	218,3		mV
temperature	11,11	9,80	9,36		deline
pH	7,39	6,77	6,82		std. units
specific conductivity	589,0	568,0	548,0		umhos/cm
~~turbidity~~ D.O.	2,40	2,31	1,97		NTU
appearance	clear	clear	clear		-

% Recharge:

Initial Depth to Water _____ fe

Recharge Depth to Water _____ fe

2nd water column height _____ %

1st water column height

Weather: Sunny 65-70

Observations:

Sampler: Pete Rundell

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: DECTA ENVIROUMENTAL

Project: HB Fuller Geneva

Well ID: MW-108

ULI ID No. (entered by ULI)

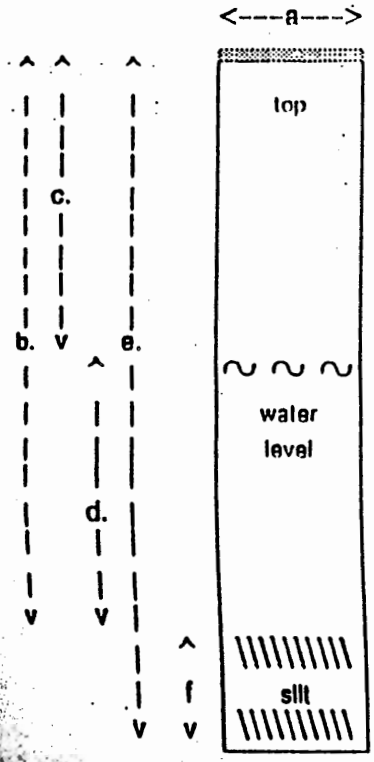
Condition of Well: GOOD

Method of Evacuation: PERISTACIC Pump

Method of Sampling: Peristalic Pump

Locked: yes no

Lock ID:



a.	Diameter	8"	inches
b.	Well Depth Measured	16.45	feet
c.	Depth to Water	5.01	feet
d.	Length of Water Column (calculated)	11,44	feet
	Conversion Factor	x.16	-
	Well Volume (calculated)	1,83	gallons
	No. of Volumes to be Evacuated	x3	-
	Total Volume to be Evacuated	5,49	gallons
	Actual Volume Evacuated	-	gallons
e.	Installed Well Depth (if known)	-	feet
f.	Depth of Silt (calculated)	-	feet

Field Measurements:

				Final	Units
date	4/28/99	4/28/99		4/28/99	-
time	12:40h	12:55h		110	-
EH	123,5	153,3		159.1	mV
temperature	9.99	8,82		8.78	deline
pH	7,32	6,87		6.83	std. units
specific conductivity	627.0	612.0		614.0	umhos/cm
~~turbidity~~ D.O	2,58	2,19		2,17	NTU
appearance	cloudy	clear		Clear	-

% Recharge:

Initial Depth to Water ____ ft

Recharge Depth to Water ____ ft

2nd water column height ____ %

1st water column height

Weather: 70° SUNNY

Observations:

Sampler: Pete Rudell

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: DELTA Environmental

Project: MB Fuller Geneva

Well ID: MW-110

ULI ID No. (entered by lab):

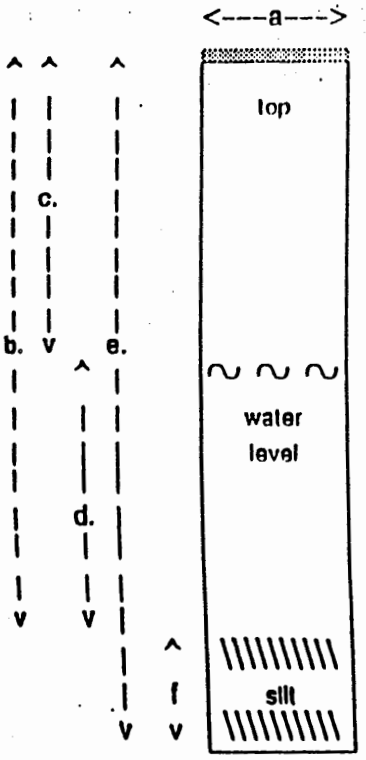
Condition of Well: GOOD

Locked: yes no

Method of Evacuation:

Lock ID:

Method of Sampling: NO SAMPLE TAKEN DUE TO only 1 inch of water in well



a. Diameter	1"	inches
b. Well Depth Measured		feet
c. Depth to Water	9.67	feet
d. Length of Water Column (calculated)		feet
Conversion Factor		–
Well Volume (calculated)		gallons
No. of Volumes to be Evacuated		–
Total Volume to be Evacuated		gallons
Actual Volume Evacuated		gallons
e. Installed Well Depth (if known)		feet
f. Depth of Silt (calculated)		feet

Field Measurements:

	Final	Units
date		–
time		–
EH		mV
temperature		deline
pH		std. units
specific conductivity		umhos/cm
turbidity		NTU
appearance		–

% Recharge:

Initial Depth to Water ft

Recharge Depth to Water ft

2nd water column height

1st water column height

Weather:

Observations: DRY (NO SAMPLE TAKEN)

Sampler: Peter Rudell

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: DELTA Environmental

Project: MB Fuller Geneva

Well ID: MW-111

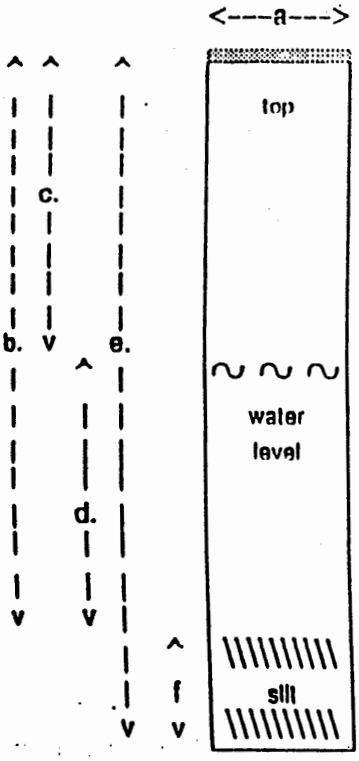
ULI ID No. (entered by lab):

Condition of Well: GOOD / HEAVY SILT - BOTTOM **Locked:** yes no

Method of Evacuation: —

Lock ID:

Method of Sampling: HAND BAIL



a.	Diameter	1"	inches
b.	Well Depth Measured		feet
c.	Depth to Water	5.75	feet
d.	Length of Water Column (calculated)		feet
	Conversion Factor		-
	Well Volume (calculated)		gallons
	No. of Volumes to be Evacuated		-
	Total Volume to be Evacuated		gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

	Units	Final
date	-	4/28/94
time	-	1006
EH	mV	
temperature	deline	
pH	std. units	
specific conductivity	umhos/cm	
turbidity	NTU	
appearance	-	

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

* NOT ENOUGH WATER TO OBTAIN READINGS

Weather:

Observations: * ONLY ENOUGH WATER FOR 8260

Sampler: PETE

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: Delta Environmental

Project: HB Fuller Geneva

Well ID: MW-112

ULI ID No. (entered by ULI):

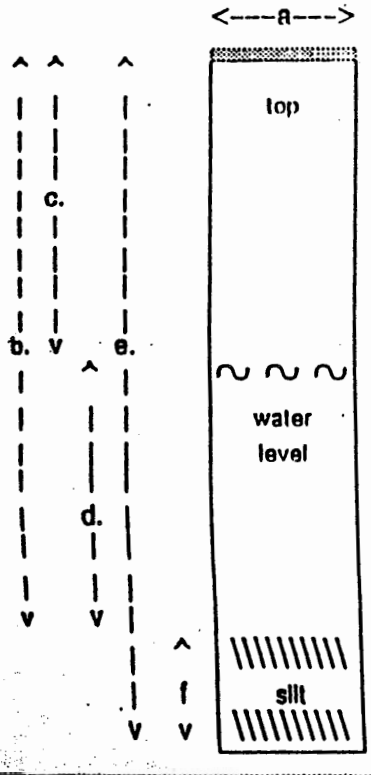
Condition of Well: Good

Method of Evacuation: Peristalic Pump

Method of Sampling: Peristalic Pump

Locked: yes no

Lock ID:



a.	Diameter	2	inches
b.	Well Depth Measured	21.35	feet
c.	Depth to Water	11.98	feet
d.	Length of Water Column (calculated)	9.37	feet
	Conversion Factor	x.16	-
	Well Volume (calculated)	1.49	gallons
	No. of Volumes to be Evacuated	x3	-
	Total Volume to be Evacuated	4.49	gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

				Units
date	~~4/28/99~~	4/28/99	4/28/99	-
time	2:10p	2:18	2:40	-
EH	180.9	22.7	-2.70	mV
temperature	11.22°	10.67°	10.75°	deline
pH	7.20	7.21	7.24	std. units
specific conductivity	1120.0	1241.0	1249.0	umhos/cm
~~turbidity~~ D.O.	4.79	1.91	1.80	NTU
appearance	Brown	cloudy	cloudy	-

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Weather: Sunny 70°F

Observations:

Sampler: Pete Rundell

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: DELTA Environmental

Project: HB Fuller Geneva

Well ID: MW 113

ULI ID No. (entered by ULI)

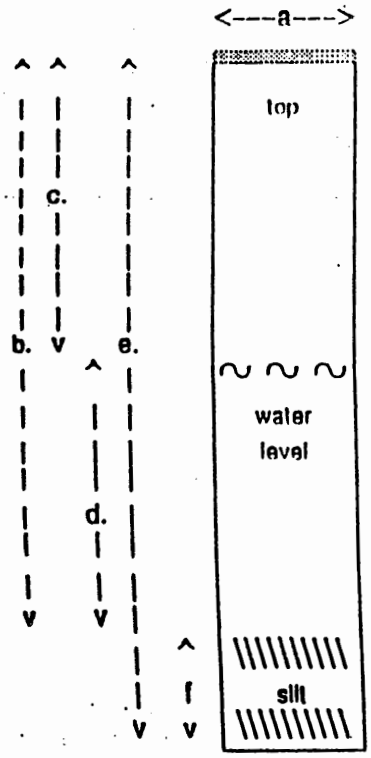
Condition of Well: Good

Method of Evacuation: PERISTALTIC Pump

Method of Sampling: Peristaltic Pump

Locked: yes no

Lock ID:



a.	Diameter	2	inches
b.	Well Depth Measured	19,0	feet
c.	Depth to Water	11,51	feet
d.	Length of Water Column (calculated)	7,49	feet
	Conversion Factor	K.16 ~~K.49~~	-
	Well Volume (calculated)	~~2~~ 1,19	gallons
	No. of Volumes to be Evacuated	x3	-
	Total Volume to be Evacuated	3,59	gallons
	Actual Volume Evacuated	4.0	gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

	4/28/99	4/28/99		FINAL	Units
date					-
time	11:32 AM	11:41 AM		11:53 AM	-
EH	361,6	-116,6		-142,7	mV
temperature	9,85	10,0		10,58	deline
pH	7,24	7,165		7,77	std. units
specific conductivity	776,0	731,0		584,6	umhos/cm
~~turbidity~~ D.O	2,84	1,91		1,55	NTU
appearance	Brown	Brown		Brown	-

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Weather: Sunny ~70°F

Observations:

Sampler: PETE Rundell

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: Delta Environmental

Project: HB Fuller Geneva

Well ID: MW-201

ULI ID No. (entered by ULI):

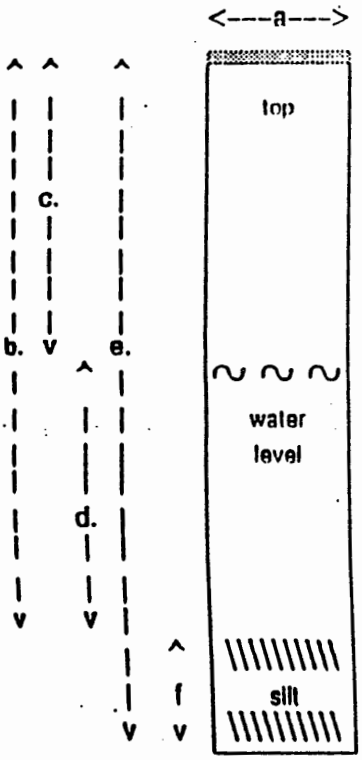
Condition of Well: Good

Method of Evacuation: Peristaltic Pump

Method of Sampling: Peristaltic Pump

Locked: yes no

Lock ID:



a.	Diameter	2"	inches
b.	Well Depth Measured	25.80	feet
c.	Depth to Water	14.53	feet
d.	Length of Water Column (calculated)	11.27	feet
	Conversion Factor	.16	-
	Well Volume (calculated)	1.80	gallons
	No. of Volumes to be Evacuated	3	-
	Total Volume to be Evacuated	5.4	gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

				Units
			Final	
date	4/27/99	4/27/99	4/28/99	-
time	411	420	1030	-
EH	-40.3	18.89	21.3	mV
temperature	11.88	12.65	12.40	deline
pH	7.53	7.86	7.81	std. units
specific conductivity	522	589	601	umhos/cm
~~turbidity~~ DO	2.76	4.03	3.81	NTU
appearance	Cloudy	Cloudy	Cloudy	-

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Weather: Sunny 65-70 F

Observations:

Sampler: Pete Rundell

Signature:

UPSTATE LABORATORIES INC.

Delta Environmental Consultants, Inc.
5/3/99

Contact: Steve Zbur Fax: 412-487-9785
Phone: 412-487-7700
Project: HB Fuller (Geneva)
Date: Wednesday, 4/28/99

****

Field Report

Static Water Levels

MW-101	7.99 Feet
MW-201	14.53 Feet
MW-102	5.63 Feet
MW-202	12.66 Feet
MW-109	7.34 Feet
P-01	11.65 Feet
MW-107	10.44 Feet
MW-103	5.56 Feet
MW-104	4.17 Feet
MW-105	6.85 Feet
MW-110	9.67 Feet
MW-111	5.75 Feet
MW-108	5.01 Feet
MW-203	6.64 Feet
MW-106	3.46 Feet
MW-112	11.98 Feet
MW-113	11.51 Feet

Stream A	1.82 Feet (Measured from top of stick to water level)
Stream B	2.10 Feet (Measured from top of stick to water level)
Stream C	1.32 Feet (Measured from top of stick to water level)

Notes: All wells sampled were purged using a low flow pourging technique. The water was withdrawn from the well with a 1/4 inch poly tubing and variable speed peristalic pump. The pump was set on the lowest setting. Each well had 3 sets of field data taken during purging using a Well Wizard flow through cell meter system. Field data included pH, Spec. Conductivity, EH, Temp, and Dissolved Oxygen. TRC (total residual chlorine) was taken at specific wells with a colormetric meter.

Approved by: _____ Date: 5/3/99
Pete Rundell
Regional Manager

file: del%gn99

Upstate Laboratories, Inc.

Groundwater Field Log

Client: DELTA Environmental

Project: H.B. Fuller Geneva

Well ID: MW-202

ULI ID No. (entered by lab)

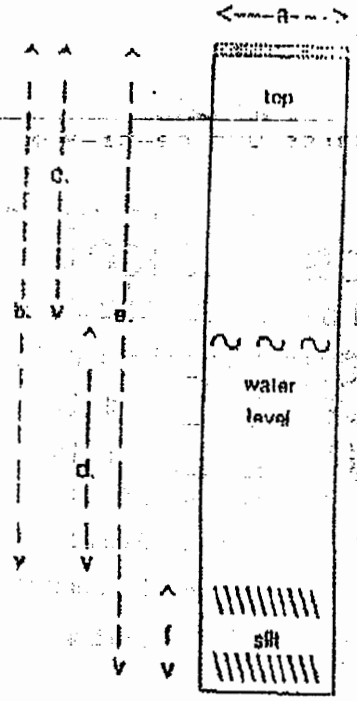
Condition of Well: Good

Method of Evacuation: Peristaltic Pump

Method of Sampling: Peristaltic Pump

Locked: yes no

Lock ID:



a.	Diameter	2"	inches
	Well Depth Measured	28.40	feet
c.	Depth to Water	12.66	feet
d.	Length of Water Column (calculated)	10.74	feet
	Conversion Factor	.16	-
	Well Volume (calculated)	1.71	gallons
	No. of Volumes to be Evacuated	3	
	Total Volume to be Evacuated	5.95	gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

					Units
date	4/27/99	4/27/99		Final 4/27/99	-
time	12:42	12:54		1015	-
EH	142.6	142.9		140.0	mV
temperature	11.43°	11.73		11.80	deline
pH	11.92	11.96		11.97	std. units
specific conductivity	1155.0	1113		1121	umhos/cm
turbidity D.O	4.03 10.35	3.23	3.23	3.87	NTU
appearance	cloudy	Cloudy		Cloudy	-

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Weather: Sunny 70°F

Observations:

Sampler:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: Delta Environmental

Project: HB Fuller Geneva

Well ID: MW-203

ULI ID No. (entered by lab):

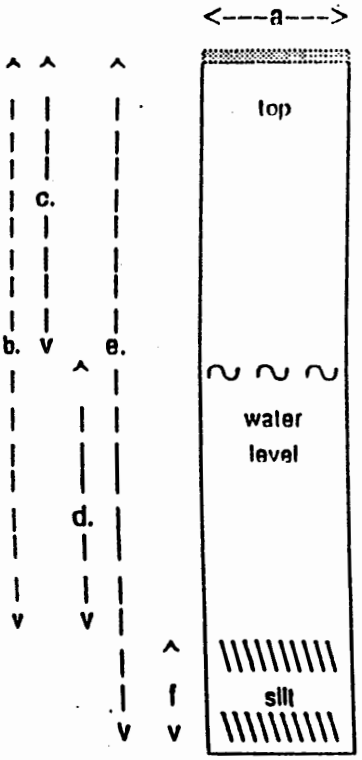
Condition of Well: Good

Method of Evacuation: ~~Pump~~ Peristalic Pump

Method of Sampling: Peristalic Pump

Locked: yes no

Lock ID:



a.	Diameter	2	inches
b.	Well Depth Measured	24.00	feet
c.	Depth to Water	6.64	feet
d.	Length of Water Column (calculated)	17.36	feet
	Conversion Factor	x.16	-
	Well Volume (calculated)	2.77	gallons
	No. of Volumes to be Evacuated	x3	-
	Total Volume to be Evacuated	8.33	gallons
	Actual Volume Evacuated		gallons
e.	Installed Well Depth (if known)		feet
f.	Depth of Silt (calculated)		feet

Field Measurements:

	4/28/99	4/28/99		Final	Units
date	11 AM	1:00 PM		1:50 PM	-
time					-
EH	186.0	190.7		190.1	mV
temperature	10.77°	11.89		11.83	deline
pH	7.28	7.87		7.62	std. units
specific conductivity	512.0	526.0		529.0	umhos/cm
~~turbidity~~ D.O	1.99	1.89		1.91	NTU
appearance	clear	clear		clear	-

% Recharge:

Initial Depth to Water ____ ft

Recharge Depth to Water ____ ft

2nd water column height ____ ft

1st water column height

Weather: 70° Sunny

Observations:

Sampler: Pete Rundell

Signature:

Upstate Laboratories, Inc.

Groundwater Field Log

Client: DECTA Environmental

Project: HB Fuller Geneva

Well ID: PZ-1

ULI ID No. (entered by ULI):

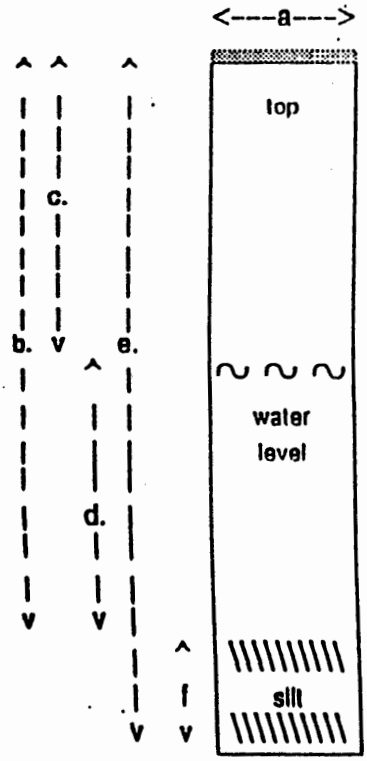
Condition of Well: Good

Method of Evacuation:

Method of Sampling: NO SAMPLE TAKE

Locked: yes no

Lock ID:



a. Diameter	1"	inches
b. Well Depth Measured	21.60	feet
c. Depth to Water	11.65	feet
d. Length of Water Column (calculated)		feet
Conversion Factor		-
Well Volume (calculated)		gallons
No. of Volumes to be Evacuated		-
Total Volume to be Evacuated		gallons
Actual Volume Evacuated		gallons
e. Installed Well Depth (if known)		feet
f. Depth of Silt (calculated)		feet

Field Measurements:

				Final	Units
date					-
time					-
EH					mV
temperature					deline
pH					std. units
specific conductivity					umhos/cm
turbidity					NTU
appearance					-

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Weather:

Observations:

Sampler: Pete Rudell

Signature:

Upstate Laboratories inc.

Shipping: 6034 Corporate Dr. • E. Syracuse, NY 13057-1017 • (315) 437-0255 • Fax (315) 437-1209
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Buffalo (716) 649-2533
Rochester (716) 436-9070
New Jersey (201) 703-1324

SEP - 7 1999

September 3, 1999

Mr. Ron Jenkins
Unit Manager
Delta Environmental Consultants
4068 Mt. Royal Blvd.
Suite 225 - Gamma
Allison Park, PA 15101

Re: Analysis Report #22399080 - HB Fuller Geneva

Dear Mr. Jenkins:

Please find enclosed the results for your samples which were collected by ULI personnel on August 10 and 11, 1999.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your sample. Samples will be disposed of approximately one month from final report date.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala
Director

AJS/jd

Enclosures: report, field data, invoice

cc/encs: N. Scala, ULI
file

Note: Faxed results were given to your office on 9/3/99. AJS

Disclaimer: The test results and procedures utilized, and laboratory interpretations of data obtained by ULI as contained in this report are believed by ULI to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of ULI for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
MW-101 1400H 08/10/99 G

ULI I.D.: 22399080
Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field Eh	-147.9mV		FIELD
	Field pH	6.82SU		FIELD
	Field Specific Conductivity	911umhos/cm		FIELD
	Field TRC	0.00mg/lCl2		FIELD
	Static Water Level	12.75'		FIELD
	Temperature	57.11degF		FIELD
	BOD5	<24mg/l		WC6966
	BOD5 (Reanalysis)	11mg/l		WC7047
	Total Alkalinity	620mg/lCaCO3		WC7112
	Chloride	15mg/l		WC7038
	COD	130mg/l		WC7026
	Ammonia-Nitrogen	2.2mg/l		WC7071
	Sulfate	140mg/l		WC7054
	Total Dissolved Solids	860mg/l		WC6991
Total	Sodium	50mg/l		MB1381
Dissolved	Iron	30mg/l		MB1374

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
MW-102 1125H 08/10/99 G

ULI I.D.: 22399081
Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field Eh	-157.1mV		FIELD
	Field pH	7.23SU		FIELD
	Field Specific Conductivity	2589umhos/cm		FIELD
	Field TRC	0.10mg/lCl2		FIELD
	Static Water Level	9.37'		FIELD
	Temperature	58.51degF		FIELD
	BOD5	26mg/l		WC6966
	MBAS	0.82mg/lLAS		WC6999
	Total Alkalinity	1700mg/lCaCO3		WC7112
	Chloride	240mg/l		WC7038
	COD	180mg/l		WC7091
	Ammonia-Nitrogen	2.2mg/l		WC7071
	Sulfate	240mg/l		WC7054
	Total Dissolved Solids	2400mg/l		WC6991
Total	Sodium	480mg/l		MB1381
Dissolved	Iron	2.2mg/l		MB1374
	TCL Volatiles by EPA Method 8260			
	Chloromethane	<3ug/l		VM2534
	Bromomethane	<3ug/l		VM2534
	Vinyl Chloride	43ug/l		VM2534
	Chloroethane	<3ug/l		VM2534
	Methylene Chloride	14ug/l	44	VM2534
	Acetone	31ug/l		VM2534
	Carbon Disulfide	<3ug/l		VM2534
	1,1-Dichloroethene	<3ug/l		VM2534
	1,1-Dichloroethane	110ug/l		VM2534
	trans-1,2-Dichloroethene	3ug/l		VM2534
	cis-1,2-Dichloroethene	31ug/l		VM2534
	Chloroform	<3ug/l		VM2534
	1,2-Dichloroethane	<3ug/l		VM2534
	2-Butanone	<10ug/l		VM2534
	1,1,1-Trichloroethane	11ug/l		VM2534
	Carbon Tetrachloride	<3ug/l		VM2534
	Bromodichloromethane	<3ug/l		VM2534
	1,2-Dichloropropane	<3ug/l		VM2534
	cis-1,3-Dichloropropene	<3ug/l		VM2534
	Trichloroethene	63ug/l		VM2534
	Dibromochloromethane	<3ug/l		VM2534
	1,1,2-Trichloroethane	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QJS
QC: PO
Lab I.D.: 10170

HB FULLER GENEVA
MW-102 1125H 08/10/99 G

ULI I.D.: 22399081 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Benzene	7ug/l		VM2534
trans-1,3-Dichloropropene	<3ug/l		VM2534
Bromoform	<3ug/l		VM2534
4-Methyl-2-pentanone	<10ug/l		VM2534
2-Hexanone	<10ug/l		VM2534
Tetrachloroethene	<3ug/l		VM2534
1,1,2,2-Tetrachloroethane	<3ug/l		VM2534
Toluene	5ug/l		VM2534
Chlorobenzene	<3ug/l		VM2534
Ethylbenzene	<3ug/l		VM2534
Styrene	<3ug/l		VM2534
m-Xylene and p-Xylene	<3ug/l		VM2534
o-Xylene	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QJS
QC: PO
Lab I.D.: 10170
HB FULLER GENEVA
MW-201 1500H 08/10/99 G

ULI I.D.: 22399082 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Field Eh	-132mV		FIELD
Field pH	7.27SU		FIELD
Field Specific Conductivity	704umhos/cm		FIELD
Field TRC	0.05mg/lCl2		FIELD
Static Water Level	16.35'		FIELD
Temperature	55.23degF		FIELD
MBAS	<0.05mg/lLAS		WC6999
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2534
Bromomethane	<3ug/l		VM2534
Vinyl Chloride	<2ug/l		VM2534
Chloroethane	<3ug/l		VM2534
Methylene Chloride	13ug/l	44	VM2534
Acetone	<10ug/l		VM2534
Carbon Disulfide	<3ug/l		VM2534
1,1-Dichloroethene	<3ug/l		VM2534
1,1-Dichloroethane	<3ug/l		VM2534
trans-1,2-Dichloroethene	<3ug/l		VM2534
cis-1,2-Dichloroethene	<3ug/l		VM2534
Chloroform	<3ug/l		VM2534
1,2-Dichloroethane	<3ug/l		VM2534
2-Butanone	<10ug/l		VM2534
1,1,1-Trichloroethane	<3ug/l		VM2534
Carbon Tetrachloride	<3ug/l		VM2534
Bromodichloromethane	<3ug/l		VM2534
1,2-Dichloropropane	<3ug/l		VM2534
cis-1,3-Dichloropropene	<3ug/l		VM2534
Trichloroethene	<3ug/l		VM2534
Dibromochloromethane	<3ug/l		VM2534
1,1,2-Trichloroethane	<3ug/l		VM2534
Benzene	<3ug/l		VM2534
trans-1,3-Dichloropropene	<3ug/l		VM2534
Bromoform	<3ug/l		VM2534
4-Methyl-2-pentanone	<10ug/l		VM2534
2-Hexanone	<10ug/l		VM2534
Tetrachloroethene	<3ug/l		VM2534
1,1,2,2-Tetrachloroethane	<3ug/l		VM2534
Toluene	<3ug/l		VM2534
Chlorobenzene	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QJD
QC: EQ
Lab I.D.: 10170
HB FULLER GENEVA
MW-201 1500H 08/10/99 G

ULI I.D.: 22399082
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Ethylbenzene	<3ug/l		VM2534
Styrene	<3ug/l		VM2534
m-Xylene and p-Xylene	<3ug/l		VM2534
o-Xylene	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QJS
QC: PO
Lab I.D.: 10170
HB FULLER GENEVA
MW-202 1215H 08/10/99 G

ULI I.D.: 22399083 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Field Eh	6.8mV		FIELD
Field pH	10.12SU		FIELD
Field Specific Conductivity	597umhos/cm		FIELD
Field TRC	0.16mg/lCl2		FIELD
Static Water Level	14.64'		FIELD
Temperature	56.89degF		FIELD
MBAS	<0.05mg/lLAS		WC6999
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2534
Bromomethane	<3ug/l		VM2534
Vinyl Chloride	<2ug/l		VM2534
Chloroethane	<3ug/l		VM2534
Methylene Chloride	13ug/l	44	VM2534
Acetone	<10ug/l		VM2534
Carbon Disulfide	<3ug/l		VM2534
1,1-Dichloroethene	<3ug/l		VM2534
1,1-Dichloroethane	<3ug/l		VM2534
trans-1,2-Dichloroethene	<3ug/l		VM2534
cis-1,2-Dichloroethene	<3ug/l		VM2534
Chloroform	<3ug/l		VM2534
1,2-Dichloroethane	<3ug/l		VM2534
2-Butanone	<10ug/l		VM2534
1,1,1-Trichloroethane	<3ug/l		VM2534
Carbon Tetrachloride	<3ug/l		VM2534
Bromodichloromethane	<3ug/l		VM2534
1,2-Dichloropropane	<3ug/l		VM2534
cis-1,3-Dichloropropene	<3ug/l		VM2534
Trichloroethene	<3ug/l		VM2534
Dibromochloromethane	<3ug/l		VM2534
1,1,2-Trichloroethane	<3ug/l		VM2534
Benzene	<3ug/l		VM2534
trans-1,3-Dichloropropene	<3ug/l		VM2534
Bromoform	<3ug/l		VM2534
4-Methyl-2-pentanone	<10ug/l		VM2534
2-Hexanone	<10ug/l		VM2534
Tetrachloroethene	<3ug/l		VM2534
1,1,2,2-Tetrachloroethane	<3ug/l		VM2534
Toluene	<3ug/l		VM2534
Chlorobenzene	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc. APPROVAL: QLS
Analysis Results QC: PO
Report Number: 22399080 Lab I.D.: 10170
Client I.D.: DELTA ENV. CONSULTANTS HB FULLER GENEVA
Sampled by: ULI MW-202 1215H 08/10/99 G

ULI I.D.: 22399083 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Ethylbenzene	<3ug/l		VM2534
Styrene	<3ug/l		VM2534
m-Xylene and p-Xylene	<3ug/l		VM2534
o-Xylene	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: AJS
QC: PO
Lab I.D.: 10170
HB FULLER GENEVA
MW-109 1420H 08/11/99 G

ULI I.D.: 22499012
Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field Eh	152mV		FIELD
	Field pH	6.63SU		FIELD
	Field pH	6.6SU		FIELD
	Field Specific Conductivity	2210umhos/cm		FIELD
	Field TRC	0.10mg/lCl2		FIELD
	Static Water Level	10.45'		FIELD
	Temperature	58.76degF		FIELD
	BOD5	<4mg/l		WC7007
	MBAS	0.53mg/lLAS		WC6999
	COD	60mg/l		WC7091
	Ammonia-Nitrogen	<0.5mg/l		WC7097
Total	Sodium	240mg/l		MB1367
	TCL Volatiles by EPA Method 8260			
	Chloromethane	<3ug/l		VM2534
	Bromomethane	<3ug/l		VM2534
	Vinyl Chloride	24ug/l		VM2534
	Chloroethane	<3ug/l		VM2534
	Methylene Chloride	15ug/l	44	VM2534
	Acetone	<10ug/l		VM2534
	Carbon Disulfide	<3ug/l		VM2534
	1,1-Dichloroethene	20ug/l		VM2534
	1,1-Dichloroethane	35ug/l		VM2534
	trans-1,2-Dichloroethene	<3ug/l		VM2534
	cis-1,2-Dichloroethene	120ug/l		VM2534
	Chloroform	6ug/l		VM2534
	1,2-Dichloroethane	<3ug/l		VM2534
	2-Butanone	<10ug/l		VM2534
	1,1,1-Trichloroethane	110ug/l		VM2534
	Carbon Tetrachloride	<3ug/l		VM2534
	Bromodichloromethane	<3ug/l		VM2534
	1,2-Dichloropropane	<3ug/l		VM2534
	cis-1,3-Dichloropropene	<3ug/l		VM2534
	Trichloroethene	140ug/l		VM2534
	Dibromochloromethane	<3ug/l		VM2534
	1,1,2-Trichloroethane	<3ug/l		VM2534
	Benzene	<3ug/l		VM2534
	trans-1,3-Dichloropropene	<3ug/l		VM2534
	Bromoform	<3ug/l		VM2534
	4-Methyl-2-pentanone	<10ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: GJS
QC: PD
Lab I.D.: 10170

HB FULLER GENEVA
MW-109 1420H 08/11/99 G

ULI I.D.: 22499012
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
2-Hexanone	<10ug/l		VM2534
Tetrachloroethene	220ug/l		VM2534
1,1,2,2-Tetrachloroethane	<3ug/l		VM2534
Toluene	<3ug/l		VM2534
Chlorobenzene	<3ug/l		VM2534
Ethylbenzene	<3ug/l		VM2534
Styrene	<3ug/l		VM2534
m-Xylene and p-Xylene	<3ug/l		VM2534
o-Xylene	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QJS
QC: PO
Lab I.D.: 10170
HB FULLER GENEVA
MW-102A 1345H 08/11/99 G

ULI I.D.: 22499013
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
MBAS	0.16mg/lLAS		WC6999
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2534
Bromomethane	<3ug/l		VM2534
Vinyl Chloride	75ug/l		VM2534
Chloroethane	<3ug/l		VM2534
Methylene Chloride	13ug/l	44	VM2534
Acetone	20ug/l		VM2534
Carbon Disulfide	<3ug/l		VM2534
1,1-Dichloroethene	7ug/l		VM2534
1,1-Dichloroethane	120ug/l		VM2534
trans-1,2-Dichloroethene	<3ug/l		VM2534
cis-1,2-Dichloroethene	200ug/l		VM2534
Chloroform	3ug/l		VM2534
1,2-Dichloroethane	<3ug/l		VM2534
2-Butanone	<10ug/l		VM2534
1,1,1-Trichloroethane	23ug/l		VM2534
Carbon Tetrachloride	<3ug/l		VM2534
Bromodichloromethane	<3ug/l		VM2534
1,2-Dichloropropane	<3ug/l		VM2534
cis-1,3-Dichloropropene	<3ug/l		VM2534
Trichloroethene	170ug/l		VM2534
Dibromochloromethane	<3ug/l		VM2534
1,1,2-Trichloroethane	<3ug/l		VM2534
Benzene	<3ug/l		VM2534
trans-1,3-Dichloropropene	<3ug/l		VM2534
Bromoform	<3ug/l		VM2534
4-Methyl-2-pentanone	<10ug/l		VM2534
2-Hexanone	<10ug/l		VM2534
Tetrachloroethene	40ug/l		VM2534
1,1,2,2-Tetrachloroethane	<3ug/l		VM2534
Toluene	<3ug/l		VM2534
Chlorobenzene	<3ug/l		VM2534
Ethylbenzene	<3ug/l		VM2534
Styrene	<3ug/l		VM2534
m-Xylene and p-Xylene	<3ug/l		VM2534
o-Xylene	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QJS
QC: QS
Lab I.D.: 10170
HB FULLER GENEVA
MW-106 08/11/99 G

ULI I.D.: 22499014
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Static Water Level	5.51'		FIELD

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QS
QC: PO
Lab I.D.: 10170
HB FULLER GENEVA
MW-111 1030H 08/11/99 G

ULI I.D.: 22499015
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2534
Bromomethane	<3ug/l		VM2534
Vinyl Chloride	<2ug/l		VM2534
Chloroethane	<3ug/l		VM2534
Methylene Chloride	13ug/l	44	VM2534
Acetone	<10ug/l		VM2534
Carbon Disulfide	<3ug/l		VM2534
1,1-Dichloroethene	37ug/l		VM2534
1,1-Dichloroethane	53ug/l		VM2534
trans-1,2-Dichloroethene	<3ug/l		VM2534
cis-1,2-Dichloroethene	7ug/l		VM2534
Chloroform	<3ug/l		VM2534
1,2-Dichloroethane	<3ug/l		VM2534
2-Butanone	<10ug/l		VM2534
1,1,1-Trichloroethane	<3ug/l		VM2534
Carbon Tetrachloride	<3ug/l		VM2534
Bromodichloromethane	<3ug/l		VM2534
1,2-Dichloropropane	<3ug/l		VM2534
cis-1,3-Dichloropropene	<3ug/l		VM2534
Trichloroethene	5ug/l		VM2534
Dibromochloromethane	<3ug/l		VM2534
1,1,2-Trichloroethane	<3ug/l		VM2534
Benzene	<3ug/l		VM2534
trans-1,3-Dichloropropene	<3ug/l		VM2534
Bromoform	<3ug/l		VM2534
4-Methyl-2-pentanone	<10ug/l		VM2534
2-Hexanone	<10ug/l		VM2534
Tetrachloroethene	<3ug/l		VM2534
1,1,2,2-Tetrachloroethane	<3ug/l		VM2534
Toluene	<3ug/l		VM2534
Chlorobenzene	<3ug/l		VM2534
Ethylbenzene	<3ug/l		VM2534
Styrene	<3ug/l		VM2534
m-Xylene and p-Xylene	<3ug/l		VM2534
o-Xylene	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QJS
QC: QQ
Lab I.D.: 10170
HB FULLER GENEVA
MW-112 1015H 08/11/99 G

ULI I.D.: 22499016 Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field Eh	41.7mV		FIELD
	Field pH	7.20SU		FIELD
	Field Specific Conductivity	1041umhos/cm		FIELD
	Field TRC	0.7mg/l		FIELD
	Static Water Level	13.30'		FIELD
	Temperature	54.31degF		FIELD
	BOD5	12mg/l		WC7007
	MBAS	<0.05mg/lLAS		WC6999
	Total Alkalinity	480mg/lCaCO3		WC7036
	Chloride	76mg/l		WC7038
	COD	<20mg/l		WC7021
	Ammonia-Nitrogen	<0.5mg/l		WC7097
	Sulfate	140mg/l		WC7074
	Total Dissolved Solids	650mg/l		WC7028
Total	Sodium	49mg/l		MB1381
Dissolved	Iron	0.06mg/l		MB1374

TCL Volatiles by EPA Method 8260

Chloromethane	<300ug/l	05	VM2542
Bromomethane	<300ug/l	05	VM2542
Vinyl Chloride	<200ug/l	05	VM2542
Chloroethane	<300ug/l	05	VM2542
Methylene Chloride	490ug/l	44	VM2542
Acetone	<1000ug/l	05	VM2542
Carbon Disulfide	<300ug/l	05	VM2542
1,1-Dichloroethene	<300ug/l	05	VM2542
1,1-Dichloroethane	4700ug/l		VM2542
trans-1,2-Dichloroethene	<300ug/l	05	VM2542
cis-1,2-Dichloroethene	500ug/l		VM2542
Chloroform	<300ug/l	05	VM2542
1,2-Dichloroethane	<300ug/l	05	VM2542
2-Butanone	<1000ug/l	05	VM2542
1,1,1-Trichloroethane	800ug/l		VM2542
Carbon Tetrachloride	<300ug/l	05	VM2542
Bromodichloromethane	<300ug/l	05	VM2542
1,2-Dichloropropane	<300ug/l	05	VM2542
cis-1,3-Dichloropropene	<300ug/l	05	VM2542
Trichloroethene	590ug/l		VM2542
Dibromochloromethane	<300ug/l	05	VM2542
1,1,2-Trichloroethane	<300ug/l	05	VM2542

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QLS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
MW-112 1015H 08/11/99 G

ULI I.D.: 22499016
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Benzene	<300ug/l	05	VM2542
trans-1,3-Dichloropropene	<300ug/l	05	VM2542
Bromoform	<300ug/l	05	VM2542
4-Methyl-2-pentanone	<1000ug/l	05	VM2542
2-Hexanone	<1000ug/l	05	VM2542
Tetrachloroethene	5300ug/l		VM2542
1,1,2,2-Tetrachloroethane	<300ug/l	05	VM2542
Toluene	<300ug/l	05	VM2542
Chlorobenzene	<300ug/l	05	VM2542
Ethylbenzene	<300ug/l	05	VM2542
Styrene	<300ug/l	05	VM2542
m-Xylene and p-Xylene	<300ug/l	05	VM2542
o-Xylene	<300ug/l	05	VM2542

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QS
QC: RD
Lab I.D.: 10170
HB FULLER GENEVA
MW-113 1051H 08/11/99 G

ULI I.D.: 22499017
Matrix: Water

	PARAMETERS	RESULTS	KEY	FILE#
	Field Eh	-1.0mV		FIELD
	Field pH	7.16SU		FIELD
	Field Specific Conductivity	1892umhos/cm		FIELD
	Field TRC	1.0mg/lCl2		FIELD
	Static Water Level	13.85'		FIELD
	Temperature	54.27degF		FIELD
	BOD5	<4mg/l		WC7007
	MBAS	0.52mg/lLAS		WC6999
	Total Alkalinity	410mg/lCaCO3		WC7036
	Chloride	97mg/l		WC7038
	COD	63mg/l		WC7091
	Ammonia-Nitrogen	<0.5mg/l		WC7097
	Sulfate	150mg/l		WC7074
	Total Dissolved Solids	1000mg/l		WC7028
Total	Sodium	230mg/l		MB1381
Dissolved	Iron	2.3mg/l		MB1374
	TCL Volatiles by EPA Method 8260			
	Chloromethane	<3ug/l		VM2534
	Bromomethane	<3ug/l		VM2534
	Vinyl Chloride	110ug/l		VM2534
	Chloroethane	<3ug/l		VM2534
	Methylene Chloride	13ug/l	44	VM2534
	Acetone	<10ug/l		VM2534
	Carbon Disulfide	<3ug/l		VM2534
	1,1-Dichloroethene	21ug/l		VM2534
	1,1-Dichloroethane	160ug/l		VM2534
	trans-1,2-Dichloroethene	<3ug/l		VM2534
	cis-1,2-Dichloroethene	150ug/l		VM2534
	Chloroform	<3ug/l		VM2534
	1,2-Dichloroethane	<3ug/l		VM2534
	2-Butanone	<10ug/l		VM2534
	1,1,1-Trichloroethane	28ug/l		VM2534
	Carbon Tetrachloride	<3ug/l		VM2534
	Bromodichloromethane	<3ug/l		VM2534
	1,2-Dichloropropane	<3ug/l		VM2534
	cis-1,3-Dichloropropene	<3ug/l		VM2534
	Trichloroethene	120ug/l		VM2534
	Dibromochloromethane	<3ug/l		VM2534
	1,1,2-Trichloroethane	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QS
QC: PO
Lab I.D.: 10170
HB FULLER GENEVA
MW-113 1051H 08/11/99 G

ULI I.D.: 22499017
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Benzene	<3ug/l		VM2534
trans-1,3-Dichloropropene	<3ug/l		VM2534
Bromoform	<3ug/l		VM2534
4-Methyl-2-pentanone	<10ug/l		VM2534
2-Hexanone	<10ug/l		VM2534
Tetrachloroethene	20ug/l		VM2534
1,1,2,2-Tetrachloroethane	<3ug/l		VM2534
Toluene	<3ug/l		VM2534
Chlorobenzene	<3ug/l		VM2534
Ethylbenzene	<3ug/l		VM2534
Styrene	<3ug/l		VM2534
m-Xylene and p-Xylene	<3ug/l		VM2534
o-Xylene	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
MW-203 1215H 08/11/99 G

ULI I.D.: 22499018
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Field Eh	51.4mV		FIELD
Field pH	8.09SU		FIELD
Field Specific Conductivity	708umhos/cm		FIELD
Field TRC	0.01mg/lCl2		FIELD
Static Water Level	12.00'		FIELD
Temperature	58.03degF		FIELD
MBAS	<0.05mg/lLAS		WC6999
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2534
Bromomethane	<3ug/l		VM2534
Vinyl Chloride	<2ug/l		VM2534
Chloroethane	<3ug/l		VM2534
Methylene Chloride	15ug/l	44	VM2534
Acetone	<10ug/l		VM2534
Carbon Disulfide	<3ug/l		VM2534
1,1-Dichloroethene	<3ug/l		VM2534
1,1-Dichloroethane	<3ug/l		VM2534
trans-1,2-Dichloroethene	<3ug/l		VM2534
cis-1,2-Dichloroethene	<3ug/l		VM2534
Chloroform	<3ug/l		VM2534
1,2-Dichloroethane	<3ug/l		VM2534
2-Butanone	<10ug/l		VM2534
1,1,1-Trichloroethane	<3ug/l		VM2534
Carbon Tetrachloride	<3ug/l		VM2534
Bromodichloromethane	<3ug/l		VM2534
1,2-Dichloropropane	<3ug/l		VM2534
cis-1,3-Dichloropropene	<3ug/l		VM2534
Trichloroethene	<3ug/l		VM2534
Dibromochloromethane	<3ug/l		VM2534
1,1,2-Trichloroethane	<3ug/l		VM2534
Benzene	<3ug/l		VM2534
trans-1,3-Dichloropropene	<3ug/l		VM2534
Bromoform	<3ug/l		VM2534
4-Methyl-2-pentanone	<10ug/l		VM2534
2-Hexanone	<10ug/l		VM2534
Tetrachloroethene	<3ug/l		VM2534
1,1,2,2-Tetrachloroethane	<3ug/l		VM2534
Toluene	<3ug/l		VM2534
Chlorobenzene	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QS
QC: RD
Lab I.D.: 10170

HB FULLER GENEVA
MW-203 1215H 08/11/99 G

ULI I.D.: 22499018

Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Ethylbenzene	<3ug/l		VM2534
Styrene	<3ug/l		VM2534
m-Xylene and p-Xylene	<3ug/l		VM2534
o-Xylene	<3ug/l		VM2534

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QS
QC: PO
Lab I.D.: 10170
HB FULLER GENEVA
STREAM A 1120H 08/11/99 G

ULI I.D.: 22499019 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
MBAS	0.14mg/lLAS		WC6999
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2535
Bromomethane	<3ug/l		VM2535
Vinyl Chloride	<2ug/l		VM2535
Chloroethane	<3ug/l		VM2535
Methylene Chloride	6ug/l	44	VM2535
Acetone	<10ug/l		VM2535
Carbon Disulfide	<3ug/l		VM2535
1,1-Dichloroethene	<3ug/l		VM2535
1,1-Dichloroethane	<3ug/l		VM2535
trans-1,2-Dichloroethene	<3ug/l		VM2535
cis-1,2-Dichloroethene	<3ug/l		VM2535
Chloroform	<3ug/l		VM2535
1,2-Dichloroethane	<3ug/l		VM2535
2-Butanone	<10ug/l		VM2535
1,1,1-Trichloroethane	<3ug/l		VM2535
Carbon Tetrachloride	<3ug/l		VM2535
Bromodichloromethane	<3ug/l		VM2535
1,2-Dichloropropane	<3ug/l		VM2535
cis-1,3-Dichloropropene	<3ug/l		VM2535
Trichloroethene	<3ug/l		VM2535
Dibromochloromethane	<3ug/l		VM2535
1,1,2-Trichloroethane	<3ug/l		VM2535
Benzene	<3ug/l		VM2535
trans-1,3-Dichloropropene	<3ug/l		VM2535
Bromoform	<3ug/l		VM2535
4-Methyl-2-pentanone	<10ug/l		VM2535
2-Hexanone	<10ug/l		VM2535
Tetrachloroethene	<3ug/l		VM2535
1,1,2,2-Tetrachloroethane	<3ug/l		VM2535
Toluene	<3ug/l		VM2535
Chlorobenzene	<3ug/l		VM2535
Ethylbenzene	<3ug/l		VM2535
Styrene	<3ug/l		VM2535
m-Xylene and p-Xylene	<3ug/l		VM2535
o-Xylene	<3ug/l		VM2535

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QJS
QC: PD
Lab I.D.: 10170
HB FULLER GENEVA
STREAM B 1220H 08/11/99 G

ULI I.D.: 22499020 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
MBAS	0.12mg/lLAS		WC6999
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2535
Bromomethane	<3ug/l		VM2535
Vinyl Chloride	<2ug/l		VM2535
Chloroethane	<3ug/l		VM2535
Methylene Chloride	7ug/l	44	VM2535
Acetone	<10ug/l		VM2535
Carbon Disulfide	<3ug/l		VM2535
1,1-Dichloroethene	<3ug/l		VM2535
1,1-Dichloroethane	7ug/l		VM2535
trans-1,2-Dichloroethene	<3ug/l		VM2535
cis-1,2-Dichloroethene	4ug/l		VM2535
Chloroform	<3ug/l		VM2535
1,2-Dichloroethane	<3ug/l		VM2535
2-Butanone	<10ug/l		VM2535
1,1,1-Trichloroethane	<3ug/l		VM2535
Carbon Tetrachloride	<3ug/l		VM2535
Bromodichloromethane	<3ug/l		VM2535
1,2-Dichloropropane	<3ug/l		VM2535
cis-1,3-Dichloropropene	<3ug/l		VM2535
Trichloroethene	<3ug/l		VM2535
Dibromochloromethane	<3ug/l		VM2535
1,1,2-Trichloroethane	<3ug/l		VM2535
Benzene	<3ug/l		VM2535
trans-1,3-Dichloropropene	<3ug/l		VM2535
Bromoform	<3ug/l		VM2535
4-Methyl-2-pentanone	<10ug/l		VM2535
2-Hexanone	<10ug/l		VM2535
Tetrachloroethene	<3ug/l		VM2535
1,1,2,2-Tetrachloroethane	<3ug/l		VM2535
Toluene	<3ug/l		VM2535
Chlorobenzene	<3ug/l		VM2535
Ethylbenzene	<3ug/l		VM2535
Styrene	<3ug/l		VM2535
m-Xylene and p-Xylene	<3ug/l		VM2535
o-Xylene	<3ug/l		VM2535

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QS
QC: PO
Lab I.D.: 10170

HB FULLER GENEVA
STREAM C 1358H 08/11/99 G

ULI I.D.: 22499021 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
MBAS	0.18mg/lLAS		WC6999
TCL Volatiles by EPA Method 8260			
Chloromethane	<3ug/l		VM2535
Bromomethane	<3ug/l		VM2535
Vinyl Chloride	<2ug/l		VM2535
Chloroethane	<3ug/l		VM2535
Methylene Chloride	8ug/l	44	VM2535
Acetone	<10ug/l		VM2535
Carbon Disulfide	<3ug/l		VM2535
1,1-Dichloroethene	<3ug/l		VM2535
1,1-Dichloroethane	<3ug/l		VM2535
trans-1,2-Dichloroethene	<3ug/l		VM2535
cis-1,2-Dichloroethene	<3ug/l		VM2535
Chloroform	<3ug/l		VM2535
1,2-Dichloroethane	<3ug/l		VM2535
2-Butanone	<10ug/l		VM2535
1,1,1-Trichloroethane	<3ug/l		VM2535
Carbon Tetrachloride	<3ug/l		VM2535
Bromodichloromethane	<3ug/l		VM2535
1,2-Dichloropropane	<3ug/l		VM2535
cis-1,3-Dichloropropene	<3ug/l		VM2535
Trichloroethene	<3ug/l		VM2535
Dibromochloromethane	<3ug/l		VM2535
1,1,2-Trichloroethane	<3ug/l		VM2535
Benzene	<3ug/l		VM2535
trans-1,3-Dichloropropene	<3ug/l		VM2535
Bromoform	<3ug/l		VM2535
4-Methyl-2-pentanone	<10ug/l		VM2535
2-Hexanone	<10ug/l		VM2535
Tetrachloroethene	<3ug/l		VM2535
1,1,2,2-Tetrachloroethane	<3ug/l		VM2535
Toluene	<3ug/l		VM2535
Chlorobenzene	<3ug/l		VM2535
Ethylbenzene	<3ug/l		VM2535
Styrene	<3ug/l		VM2535
m-Xylene and p-Xylene	<3ug/l		VM2535
o-Xylene	<3ug/l		VM2535

DATE: 09/03/99

Upstate Laboratories, Inc.
Analysis Results
Report Number: 22399080
Client I.D.: DELTA ENV. CONSULTANTS
Sampled by: ULI

APPROVAL: QS
QC: PD
Lab I.D.: 10170

HB FULLER GENEVA
MW-108 08/11/99

ULI I.D.: 22499022 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
Static Water Level	11.5'		FIELD

KEY PAGE

1 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS
2 MATRIX INTERFERENCE
3 PRESENT IN BLANK
4 ANALYSIS NOT PERFORMED BECAUSE OF INSUFFICIENT SAMPLE
5 THE PRESENCE OF OTHER TARGET ANALYTE(S) PRECLUDES LOWER DETECTION LIMITS
6 BLANK CORRECTED
7 HEAD SPACE PRESENT IN SAMPLE
8 QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.
9 THE OIL WAS TREATED AS A SOLID AND LEACHED WITH EXTRACTION FLUID
10 ADL(AVERAGE DETECTION LIMITS)
11 PQL(PRACTICAL QUANTITATION LIMITS)
12 SAMPLE ANALYZED OVER HOLDING TIME
13 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL DUE TO CONTAMINATION FROM THE FILTERING PROCEDURE
14 SAMPLED BY ULI
15 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL; HOWEVER, THE VALUES ARE WITHIN EXPERIMENTAL ERROR
16 AN INHIBITORY FACTOR WAS OBSERVED IN THIS ANALYSIS
17 PARAMETER NOT ANALYZED WITHIN 15 MINUTES OF SAMPLING
18 THE SERIAL DILUTION OF THIS SAMPLE SUGGESTS A POSSIBLE PHYSICAL AND/OR CHEMICAL INTERFERENT IN THIS DETERMINATION. THE DATA MAY BE BIASED EITHER HIGH OR LOW.
19 CALCULATION BASED ON DRY WEIGHT
20 INDICATES AN ESTIMATED VALUE, DETECTED BUT BELOW THE PRACTICAL QUANTITATION LIMITS
21 UG/KG AS REC.D / UG/KG DRY WT
22 MG/KG AS REC.D / MG/KG DRY WT
23 INSUFFICIENT SAMPLE PRECLUDES LOWER DETECTION LIMITS
24 SAMPLE DILUTED/BLANK CORRECTED
25 ND(NON-DETECTED)
26 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS/BLANK CORRECTED
27 SPIKE RECOVERY ABNORMALLY HIGH/LOW DUE TO MATRIX INTERFERENCE
28 POST-DIGESTION SPIKE FOR FURNACE AA ANALYSIS IS OUTSIDE OF THE CONTROL LIMITS (85-115%); HOWEVER, THE SAMPLE CONCENTRATION IS BELOW THE PQL
29 ANALYZED BY METHOD OF STANDARD ADDITIONS
30 METHOD PERFORMANCE STUDY HAS NOT BEEN COMPLETED/ND(NON-DETECTED)
31 FIELD MEASURED PARAMETER TAKEN BY CLIENT
32 TARGET ANALYTE IS BIODEGRADED AND/OR ENVIRONMENTALLY WEATHERED
33 NON-POTABLE WATER SOURCE
34 VOLATILE ASP CODES

(B)POSSIBLE/PROBABLE BLANK CONTAMINATION (D)ALL COMPOUNDS IDENTIFIED AT A SECONDARY DILUTION FACTOR (J)ESTIMATED VALUE
35 THE HYDROCARBONS DETECTED IN THE SAMPLE DID NOT CROSS-MATCH WITH COMMON PETROLEUM DISTILLATES
36 MATRIX INTERFERENCE CAUSING SPIKES TO RESULT IN LESS THAN 50.0% RECOVERY
37 MILLIGRAMS PER LITER (MG/L) / POUNDS (LBS) PER DAY
38 MILLIGRAMS PER LITER (MG/L) OF RESIDUAL CHLORINE (CL2) / POUNDS (LBS) PER DAY OF CL2
39 MICROGRAMS PER LITER (UG/L) / POUNDS (LBS) PER DAY
40 MILLIGRAMS PER LITER (MG/L) LINEAR ALKYL SULFONATE (LAS) / POUNDS (LBS) PER DAY LAS
41 RESULTS ARE REPORTED ON AN AS REC.D BASIS
42 THE SAMPLE WAS ANALYZED ON A TOTAL BASIS; THE TEST RESULT CAN BE COMPARED TO THE TCLP REGULATORY CRITERIA BY DIVIDING THE TEST RESULT BY 20, CREATING A THEORETICAL TCLP VALUE
43 METAL BY CONCENTRATION PROCEDURE
44 POSSIBLE CONTAMINATION FROM FIELD/LABORATORY

APPENDIX C

HISTORICAL DATA TABLES

APPENDIX C
TABLE 1
HISTORICAL GROUND WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Acetone (mg/l)	Chloroform (mg/l)	Benzene (mg/l)	1,1,1-trichloro ethane (mg/l)	Chloromethane (mg/l)	Vinyl chloride (mg/l)	Methylene chloride (mg/l)
WQS		0.05	0.007	0.001	0.005		0.002	0.005
MW-101	05/29/1996	---	<0.00094	<0.0004	0.00074	<0.001	<0.0016	<0.00064
MW-101	10/22/1996	<0.005	<0.003	<0.003	<0.003	<0.005	<0.003	<0.003
MW-101	07/18/1997	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-101	02/18/1998	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-101	05/28/1998	<0.01	<0.003	<0.003	<0.003	0.007	<0.002	0.003
MW-101	07/16/1998	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-101	04/27/1999	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	[0.01]
MW-102	05/29/1996	---	[0.0167]	[0.0027]	[0.0063]	<0.001	[0.162]	[0.0062]
MW-102	10/22/1996	[0.31]	[0.012]	<0.01	<0.01	<0.01	[0.13]	<0.01
MW-102	07/21/1997	<0.01	<0.003	<0.003	<0.003	<0.003	[0.011]	<0.003
MW-102	02/18/1998	[0.05]	<0.0060	<0.0060	[0.006]	<0.0060	[0.25]	<0.0060
MW-102	05/28/1998	[0.05]	<0.015	<0.015	[0.023]	<0.015	[0.24]	<0.015
MW-102	07/16/1998	[0.076]	[0.008]	<0.003	[0.016]	<0.003	[0.26]	0.003
MW-102	04/27/1999	0.024	0.004	<0.003	<0.003	<0.003	[0.13]	[0.005]
MW-102	08/10/1999	0.031	<0.003	[0.007]	[0.011]	<0.003	[0.043]	[0.014]
MW-102A	08/11/1999	0.02	0.003	<0.003	[0.023]	<0.003	[0.075]	[0.013]
MW-103	05/29/1996	---	[0.0187]	<0.0004	[0.0074]	<0.001	[0.0058]	[0.0113]
MW-103	10/22/1996	[0.86]	[0.011]	<0.01	<0.01	<0.01	<0.01	[0.011]
MW-103	02/18/1998	[0.11]	0.005	<0.003	<0.003	<0.003	[0.005]	[0.006]

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GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Acetone (mg/l)	Chloroform (mg/l)	Benzene (mg/l)	1,1,1-trichloro ethane (mg/l)	Chloromethane (mg/l)	Vinyl chloride (mg/l)	Methylene chloride (mg/l)
WQS		0.05	0.007	0.001	0.005		0.002	0.005
MW-103	05/28/1998	[0.18]	<0.015	<0.015	<0.015	<0.015	<0.01	<0.015
MW-103	07/16/1998	[0.3]	<0.003	<0.003	<0.003	<0.003	[0.004]	[0.006]
MW-103	04/27/1999	0.014	<0.003	<0.003	<0.003	<0.003	<0.002	[0.01]
MW-104	05/29/1996	---	[0.0231]	<0.0004	0.0012	<0.001	<0.0016	0.0027
MW-104	10/22/1996	[0.05]	0.004	<0.003	<0.003	<0.005	<0.003	<0.003
MW-104	02/18/1998	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-104	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	0.003
MW-105	05/29/1996	---	<0.00094	<0.0004	0.0034	<0.001	<0.0016	<0.00064
MW-105	10/22/1996	<0.005	<0.003	<0.003	[0.006]	<0.005	<0.003	<0.003
MW-105	02/18/1998	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-106	07/18/1997	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-106	02/18/1998	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-107	07/18/1997	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-107	02/18/1998	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-108	07/21/1997	<0.01	<0.003	<0.003	<0.003	0.004	<0.002	<0.003
MW-108	02/18/1998	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-108	04/28/1999	0.013	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-109	02/18/1998	<0.1	<0.03	<0.03	[0.4]	<0.03	[0.05]	<0.03
MW-109	05/28/1998	[0.056]	<0.015	<0.015	[0.23]	<0.015	[0.025]	<0.015

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VOLATILE ORGANIC COMPOUNDS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Acetone (mg/l)	Chloroform (mg/l)	Benzene (mg/l)	1,1,1-trichloro ethane (mg/l)	Chloromethane (mg/l)	Vinyl chloride (mg/l)	Methylene chloride (mg/l)
WQS		0.05	0.007	0.001	0.005		0.002	0.005
MW-109	07/16/1998	<0.01	[0.009]	<0.003	[0.22]	<0.003	[0.038]	<0.003
MW-109	04/27/1999	<0.01	0.004	<0.003	[0.087]	<0.003	[0.01]	0.004
MW-109	08/11/1999	<0.01	0.006	<0.003	[0.11]	<0.003	[0.024]	[0.015]
MW-110	02/18/1998	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-111	02/18/1998	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-111	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-111	08/11/1999	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	[0.013]
MW-112	04/28/1999	<0.01	<0.003	<0.003	[0.075]	<0.003	[0.11]	[0.006]
MW-112	08/11/1999	<1	<0.3	<0.3	[0.8]	<0.3	<0.2	[0.49]
MW-113	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	[0.01]
MW-113	08/11/1999	<0.01	<0.003	<0.003	[0.028]	<0.003	[0.11]	[0.013]
MW-201	07/18/1997	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-201	02/18/1998	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-201	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	[0.009]
MW-201	08/10/1999	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	[0.013]
MW-202	07/21/1997	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-202	02/18/1998	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-202	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-202	08/10/1999	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	[0.013]

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VOLATILE ORGANIC COMPOUNDS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Acetone (mg/l)	Chloroform (mg/l)	Benzene (mg/l)	1,1,1-trichloro ethane (mg/l)	Chloromethane (mg/l)	Vinyl chloride (mg/l)	Methylene chloride (mg/l)
WQS		0.05	0.007	0.001	0.005		0.002	0.005
MW-203	07/21/1997	0.011	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-203	02/18/1998	0.012	<0.003	<0.003	<0.003	<0.003	<0.002	<0.003
MW-203	04/28/1999	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	[0.013]
MW-203	08/11/1999	<0.01	<0.003	<0.003	<0.003	<0.003	<0.002	[0.015]

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Acetone and methylene chloride were laboratory introduced.

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GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	1,1-Dichloro ethane (mg/l)	Methyl ethyl ketone (mg/l)	1,1-Dichloro ethene (mg/l)	1,1,2-Trichloro ethane (mg/l)	Trichloroethene (mg/l)	Ethylbenzene (mg/l)	Methyl isobutyl ketone (MIBK) (mg/l)
WQS		0.005	0.05	0.005	0.005	0.005	0.005	0.05
MW-101	05/29/1996	<0.00089	---	<0.00097	<0.00059	<0.00054	[0.0115]	---
MW-101	10/22/1996	<0.003	<0.005	<0.003	<0.003	<0.003	[0.006]	<0.005
MW-101	07/18/1997	<0.003	<0.01	<0.003	<0.003	<0.003	[0.042]	<0.01
MW-101	02/18/1998	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-101	05/28/1998	<0.003	<0.01	<0.003	<0.003	0.004	<0.003	<0.01
MW-101	07/16/1998	<0.003	<0.01	<0.003	<0.003	[0.009]	<0.003	<0.01
MW-101	04/27/1999	<0.003	<0.01	<0.003	<0.003	[0.006]	<0.003	<0.01
MW-102	05/29/1996	[0.0661]	---	[0.00911	0.0023	[0.242]	<0.00076	---
MW-102	10/22/1996	[0.056]	0.031	<0.01	<0.01	[0.069]	<0.01	[0.057]
MW-102	07/21/1997	[0.008]	<0.01	<0.003	<0.003	[0.016]	<0.003	<0.01
MW-102	02/18/1998	[0.14]	<0.0200	<0.0060	<0.0060	[0.24]	<0.0060	<0.02
MW-102	05/28/1998	[0.13]	<0.05	<0.015	<0.015	[0.28]	<0.015	<0.05
MW-102	07/16/1998	[0.13]	<0.01	[0.009]	0.003	[0.46]	<0.003	<0.01
MW-102	04/27/1999	[0.1]	<0.01	<0.003	<0.003	[0.13]	<0.003	<0.01
MW-102	08/10/1999	[0.11]	<0.01	<0.003	<0.003	[0.063]	<0.003	<0.01
MW-102A	08/11/1999	[0.12]	<0.01	[0.007]	<0.003	[0.17]	<0.003	<0.01
MW-103	05/29/1996	[0.0141]	---	<0.00097	<0.00059	[0.0327]	<0.00076	---
MW-103	10/22/1996	[0.011]	0.049	<0.01	<0.01	<0.01	<0.01	0.033
MW-103	02/18/1998	[0.01]	<0.01	<0.003	<0.003	[0.014]	<0.003	<0.01

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PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	1,1-Dichloro ethane (mg/l)	Methyl ethyl ketone (mg/l)	1,1-Dichloro ethene (mg/l)	1,1,2-Trichloro ethane (mg/l)	Trichloroethene (mg/l)	Ethylbenzene (mg/l)	Methyl isobutyl ketone (MIBK) (mg/l)
WQS		0.005	0.05	0.005	0.005	0.005	0.005	0.05
MW-103	05/28/1998	<0.015	<0.05	<0.015	<0.015	<0.015	<0.015	<0.05
MW-103	07/16/1998	[0.011]	0.01	<0.003	<0.003	[0.015]	<0.003	<0.01
MW-103	04/27/1999	<0.003	<0.01	<0.003	<0.003	[0.005]	<0.003	<0.01
MW-104	05/29/1996	<0.00089	---	<0.00097	<0.00059	<0.00054	<0.00076	---
MW-104	10/22/1996	<0.003	0.011	<0.003	<0.003	<0.003	<0.003	[0.057]
MW-104	02/18/1998	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-104	04/28/1999	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-105	05/29/1996	0.0018	---	<0.00097	<0.00059	<0.00054	<0.00076	---
MW-105	10/22/1996	<0.003	<0.005	<0.003	<0.003	<0.003	<0.003	0.013
MW-105	02/18/1998	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-106	07/18/1997	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-106	02/18/1998	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-107	07/18/1997	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-107	02/18/1998	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-108	07/21/1997	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-108	02/18/1998	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-108	04/28/1999	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-109	02/18/1998	[0.081]	<0.1	[0.064]	<0.03	[0.28]	<0.03	<0.1
MW-109	05/28/1998	[0.056]	[0.074]	[0.047]	<0.015	[0.21]	<0.015	<0.05

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GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	1,1-Dichloro ethane (mg/l)	Methyl ethyl ketone (mg/l)	1,1-Dichloro ethene (mg/l)	1,1,2-Trichloro ethane (mg/l)	Trichloroethene (mg/l)	Ethylbenzene (mg/l)	Methyl isobutyl ketone (MIBK) (mg/l)
WQS		0.005	0.05	0.005	0.005	0.005	0.005	0.05
MW-109	07/16/1998	[0.061]	<0.01	[0.039]	<0.003	[0.23]	<0.003	<0.01
MW-109	04/27/1999	[0.031]	<0.01	[0.015]	<0.003	[0.097]	<0.003	<0.01
MW-109	08/11/1999	[0.035]	<0.01	[0.02]	<0.003	[0.14]	<0.003	<0.01
MW-110	02/18/1998	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-111	02/18/1998	[0.033]	<0.01	[0.016]	<0.003	0.004	<0.003	<0.01
MW-111	04/28/1999	[0.018]	<0.01	[0.009]	<0.003	<0.003	<0.003	<0.01
MW-111	08/11/1999	[0.053]	<0.01	[0.037]	<0.003	[0.005]	<0.003	<0.01
MW-112	04/28/1999	[0.12]	<0.01	[0.015]	<0.003	[0.096]	<0.003	<0.01
MW-112	08/11/1999	[4.7]	<1	<0.3	<0.3	[0.59]	<0.3	<1
MW-113	04/28/1999	[0.096]	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-113	08/11/1999	[0.16]	<0.01	[0.021]	<0.003	[0.12]	<0.003	<0.01
MW-201	07/18/1997	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-201	02/18/1998	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-201	04/28/1999	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-201	08/10/1999	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-202	07/21/1997	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-202	02/18/1998	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-202	04/28/1999	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-202	08/10/1999	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01

WQS= DEC Class GA Standard
[]=Greater than Action Level ---=Not analyzed
Acetone and methylene chloride were laboratory introduced.

APPENDIX C
TABLE 1
HISTORICAL GROUND WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	1,1-Dichloro ethane (mg/l)	Methyl ethyl ketone (mg/l)	1,1-Dichloro ethene (mg/l)	1,1,2-Trichloro ethane (mg/l)	Trichloroethene (mg/l)	Ethylbenzene (mg/l)	Methyl isobutyl ketone (MIBK) (mg/l)
WQS		0.005	0.05	0.005	0.005	0.005	0.005	0.05
MW-203	07/21/1997	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-203	02/18/1998	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-203	04/28/1999	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01
MW-203	08/11/1999	<0.003	<0.01	<0.003	<0.003	<0.003	<0.003	<0.01

WQS= DEC Class GA Standard
---=Not analyzed
Acetone and methylene chloride were laboratory introduced.

APPENDIX C
TABLE 1
HISTORICAL GROUND WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Toluene (mg/l)	Chlorobenzene (mg/l)	Tetrachloroethene (mg/l)	cis-1,2-Dichloroethene (mg/l)	trans-1,2-Dichloroethene (mg/l)	Xylene (total) (mg/l)
WQS		0.005	0.005	0.005	0.005	0.005	0.005
MW-101	05/29/1996	<0.00038	<0.00067	[0.011]	0.002	<0.00092	0.0025
MW-101	10/22/1996	<0.003	<0.003	0.004	[0.014]	<0.003	0.004
MW-101	07/18/1997	<0.003	<0.003	0.003	[0.009]	<0.003	<0.003
MW-101	02/18/1998	<0.003	<0.003	[0.012]	<0.003	<0.003	<0.003
MW-101	05/28/1998	<0.003	<0.003	[0.011]	<0.003	<0.003	<0.003
MW-101	07/16/1998	<0.003	<0.003	[0.013]	[0.005]	<0.003	<0.003
MW-101	04/27/1999	<0.003	<0.003	[0.026]	<0.003	<0.003	<0.003
MW-102	05/29/1996	0.00084	0.0019	[0.11]	[0.283]	0.0021	<0.001
MW-102	10/22/1996	<0.01	<0.01	<0.01	[0.26]	<0.01	<0.01
MW-102	07/21/1997	<0.003	<0.003	<0.003	[0.015]	<0.003	<0.003
MW-102	02/18/1998	<0.0060	<0.0060	[0.051]	[0.21]	<0.0060	<0.0060
MW-102	05/28/1998	<0.015	<0.015	[0.053]	[0.26]	<0.015	<0.015
MW-102	07/16/1998	<0.003	<0.003	[0.033]	[0.51]	[0.006]	<0.003
MW-102	04/27/1999	<0.003	<0.003	<0.003	[0.093]	0.004	<0.003
MW-102	08/10/1999	[0.005]	<0.003	<0.003	[0.031]	0.003	<0.006
MW-102A	08/11/1999	<0.003	<0.003	[0.04]	[0.2]	<0.003	<0.006
MW-103	05/29/1996	0.0014	[0.0062]	[0.04011]	[0.0119]	<0.00092	<0.001
MW-103	10/22/1996	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW-103	02/18/1998	<0.003	<0.003	[0.015]	[0.013]	<0.003	<0.003

WQS= DEC Class GA Standard
[]=Greater than Action Level ---=Not analyzed
Acetone and methylene chloride were laboratory introduced.

APPENDIX C
TABLE 1
HISTORICAL GROUND WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Toluene (mg/l)	Chlorobenzene (mg/l)	Tetrachloro ethene (mg/l)	cis-1,2-Dichloroethene (mg/l)	trans-1,2-Dichloroethene (mg/l)	Xylene (total) (mg/l)
WQS		0.005	0.005	0.005	0.005	0.005	0.005
MW-103	05/28/1998	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
MW-103	07/16/1998	<0.003	<0.003	[0.007]	[0.009]	<0.003	<0.003
MW-103	04/27/1999	<0.003	<0.003	[0.007]	0.004	<0.003	<0.003
MW-104	05/29/1996	<0.00038	<0.00067	<0.00095	<0.00092	<0.00092	<0.001
MW-104	10/22/1996	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-104	02/18/1998	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-104	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-105	05/29/1996	<0.00038	<0.00067	0.0018	<0.00092	<0.00092	<0.001
MW-105	10/22/1996	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-105	02/18/1998	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-106	07/18/1997	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-106	02/18/1998	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-107	07/18/1997	<0.003	<0.003	[0.007]	<0.003	<0.003	<0.003
MW-107	02/18/1998	<0.003	<0.003	[0.006]	<0.003	<0.003	<0.003
MW-108	07/21/1997	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-108	02/18/1998	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-108	04/28/1999	<0.003	<0.003	0.004	<0.003	<0.003	<0.003
MW-109	02/18/1998	<0.03	<0.03	[0.52]	[0.22]	<0.03	<0.03
MW-109	05/28/1998	<0.015	<0.015	[0.31]	[0.15]	<0.015	<0.015

WQS= DEC Class GA Standard
[]=Greater than Action Level ---=Not analyzed
Acetone and methylene chloride were laboratory introduced.

APPENDIX C
TABLE 1
HISTORICAL GROUND WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Toluene (mg/l)	Chlorobenzene (mg/l)	Tetrachloro ethene (mg/l)	cis-1,2-Dichloroethene (mg/l)	trans-1,2-Dichloroethene (mg/l)	Xylene (total) (mg/l)
WQS		0.005	0.005	0.005	0.005	0.005	0.005
MW-109	07/16/1998	<0.003	<0.003	[0.35]	[0.2]	<0.003	<0.003
MW-109	04/27/1999	<0.003	<0.003	[0.11]	[0.083]	<0.003	[0.015]
MW-109	08/11/1999	<0.003	<0.003	[0.22]	[0.12]	<0.003	<0.006
MW-110	02/18/1998	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-111	02/18/1998	<0.003	<0.003	<0.003	[0.006]	<0.003	<0.003
MW-111	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-111	08/11/1999	<0.003	<0.003	<0.003	[0.007]	<0.003	<0.006
MW-112	04/28/1999	<0.003	<0.003	[0.029]	[0.19]	<0.003	<0.003
MW-112	08/11/1999	<0.3	<0.3	[5.3]	[0.5]	<0.3	<0.6
MW-113	04/28/1999	<0.003	<0.003	<0.003	0.004	<0.003	<0.003
MW-113	08/11/1999	<0.003	<0.003	[0.02]	[0.15]	<0.003	<0.006
MW-201	07/18/1997	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-201	02/18/1998	<0.003	<0.003	0.004	<0.003	<0.003	<0.003
MW-201	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-201	08/10/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.006
MW-202	07/21/1997	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-202	02/18/1998	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-202	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-202	08/10/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.006

WQS= DEC Class GA Standard
[]=Greater than Action Level ---=Not analyzed
Acetone and methylene chloride were laboratory introduced.

APPENDIX C
TABLE 1
HISTORICAL GROUND WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Toluene (mg/l)	Chlorobenzene (mg/l)	Tetrachloro ethene (mg/l)	cis-1,2-Dichloroethene (mg/l)	trans-1,2-Dichloroethene (mg/l)	Xylene (total) (mg/l)
WQS		0.005	0.005	0.005	0.005	0.005	0.005
MW-203	07/21/1997	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-203	02/18/1998	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
MW-203	04/28/1999	<0.003	<0.003	<0.003	<0.003	<0.003	0.003
MW-203	08/11/1999	<0.003	<0.003	<0.003	<0.003	<0.003	<0.006

WQS= DEC Class GA Standard
---=Not analyzed
Acetone and methylene chloride were laboratory introduced.

APPENDIX C
TABLE 2
HISTORICAL SURFACE WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Methylene chloride (mg/l)	1,1-Dichloro ethane (mg/l)	cis-1,2-Dichloroethene (mg/l)
SW-1	02/18/1998	<0.003	<0.003	<0.003
SW-1	05/28/1998	<0.003	<0.003	<0.003
SW-1	07/16/1998	<0.003	<0.003	<0.003
SW-1	04/28/1999	0.014	<0.003	<0.003
SW-1	08/11/1999	0.006	<0.003	<0.003
SW-2	02/18/1998	<0.003	<0.003	<0.003
SW-2	05/28/1998	<0.003	0.006	0.005
SW-2	07/16/1998	<0.003	0.009	0.005
SW-2	04/28/1999	0.01	<0.003	<0.003
SW-2	08/11/1999	0.007	0.007	0.004
SW-3	02/18/1998	<0.003	<0.003	<0.003
SW-3	05/28/1998	0.003	0.006	0.004
SW-3	07/16/1998	<0.003	0.008	0.005
SW-3	04/28/1999	0.01	<0.003	<0.003
SW-3	08/11/1999	0.008	<0.003	<0.003

---=Not analyzed

Methylene chloride was laboratory introduced.

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Methane (mg/l)	Ethane (mg/l)	Ethylene (mg/l)	Alkalinity (as CaCO3) (mg/l)	Ammonia (as N) (mg/l)	Lactate (mg/l)	Sulfate (mg/l)
MW-101	05/29/1996	---	---	---	---	---	---	---
MW-101	10/22/1996	0.3	<0.000005	0.000019	450	1.9	<1	95
MW-101	07/18/1997	---	---	---	384	---	---	---
MW-101	02/18/1998	---	---	---	---	---	---	---
MW-101	05/28/1998	<1	<1	<1	300	0.7	---	38
MW-101	04/27/1999	---	---	---	300	0.6	---	91
MW-101	08/10/1999	---	---	---	620	2.2	---	140
MW-102	05/29/1996	---	---	---	---	---	---	---
MW-102	10/22/1996	0.268626	0.000766	0.053322	2500	1.7	<1	280
MW-102	07/21/1997	---	---	---	1020	---	---	---
MW-102	02/18/1998	---	---	---	---	---	---	---
MW-102	05/28/1998	<1	<1	<1	2000	1.0	---	210
MW-102	04/27/1999	---	---	---	2000	1.5	---	170
MW-102	08/10/1999	---	---	---	1700	2.2	---	240
MW-102A	08/11/1999	---	---	---	---	---	---	---
MW-103	05/29/1996	---	---	---	---	---	---	---
MW-103	10/22/1996	0.134313	0.00031	0.005095	3000	8.3	11	200
MW-103	02/18/1998	---	---	---	---	---	---	---
MW-103	05/28/1998	<1	<1	<1	2400	7.8	---	200
MW-103	04/27/1999	---	---	---	350	6.0	---	97

---=Not analyzed

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Methane (mg/l)	Ethane (mg/l)	Ethylene (mg/l)	Alkalinity (as CaCO3) (mg/l)	Ammonia (as N) (mg/l)	Lactate (mg/l)	Sulfate (mg/l)
MW-104	05/29/1996	---	---	---	---	---	---	---
MW-104	10/22/1996	0.002203	0.000013	0.000055	330	0.8	<1	63
MW-104	02/18/1998	---	---	---	---	---	---	---
MW-104	04/28/1999	---	---	---	---	---	---	---
MW-105	05/29/1996	---	---	---	---	---	---	---
MW-105	10/22/1996	0.058933	0.000019	0.000018	560	<0.5	<1	150
MW-105	02/18/1998	---	---	---	---	---	---	---
MW-105	04/28/1999	---	---	---	560	3.5	---	67
MW-106	07/18/1997	---	---	---	370	---	---	---
MW-106	02/18/1998	---	---	---	---	---	---	---
MW-106	04/28/1999	---	---	---	460	2.2	---	24
MW-107	07/18/1997	---	---	---	2523	---	---	---
MW-107	02/18/1998	---	---	---	---	---	---	---
MW-107	04/27/1999	---	---	---	240	<0.5	---	30
MW-108	07/21/1997	---	---	---	160	---	---	---
MW-108	02/18/1998	---	---	---	---	---	---	---
MW-108	04/28/1999	---	---	---	490	0.6	---	41
MW-109	02/18/1998	---	---	---	---	---	---	---
MW-109	05/28/1998	<1	<1	<1	960	<0.5	---	370
MW-109	04/27/1999	---	---	---	---	---	---	---

---=Not analyzed

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Methane (mg/l)	Ethane (mg/l)	Ethylene (mg/l)	Alkalinity (as CaCO3) (mg/l)	Ammonia (as N) (mg/l)	Lactate (mg/l)	Sulfate (mg/l)
MW-109	08/11/1999	---	---	---	---	<0.5	---	---
MW-111	02/18/1998	---	---	---	---	---	---	---
MW-112	04/28/1999	---	---	---	600	2.2	---	130
MW-112	08/11/1999	---	---	---	480	<0.5	---	140
MW-113	04/28/1999	---	---	---	390	<0.5	---	130
MW-113	08/11/1999	---	---	---	410	<0.5	---	150
MW-201	07/18/1997	---	---	---	387	---	---	---
MW-201	02/18/1998	---	---	---	---	---	---	---
MW-201	04/28/1999	---	---	---	340	0.6	---	100
MW-201	08/10/1999	---	---	---	---	---	---	---
MW-202	07/21/1997	---	---	---	192	---	---	---
MW-202	02/18/1998	---	---	---	---	---	---	---
MW-202	04/28/1999	---	---	---	220	<0.5	---	79
MW-202	08/10/1999	---	---	---	---	---	---	---
MW-203	07/21/1997	---	---	---	---	---	---	---
MW-203	02/18/1998	---	---	---	---	---	---	---
MW-203	04/28/1999	---	---	---	---	---	---	---
MW-203	08/11/1999	---	---	---	---	---	---	---

---=Not analyzed

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Sulfide (mg/l)	Chloride (mg/l)	Soluble Iron (mg/l)	Oxidation Reduction Potential (mV)	BOD (mg/l)	COD (mg/l)	TOC (mg/l)
MW-101	05/29/1996	---	---	---	---	---	---	---
MW-101	10/22/1996	<0.1	10	---	---	<12	95	26
MW-101	07/18/1997	---	---	1.8	0.12	---	---	---
MW-101	02/18/1998	---	---	---	9.5	---	---	---
MW-101	05/28/1998	<0.1	2	---	---	<8	<20	7
MW-101	04/27/1999	<0.1	8	6.6	-42.4	6	47	---
MW-101	08/10/1999	---	15	30	-147.9	11	130	---
MW-102	05/29/1996	---	---	---	---	---	---	---
MW-102	10/22/1996	<0.1	430	---	---	40	410	160
MW-102	07/21/1997	---	---	3.2	230	---	---	---
MW-102	02/18/1998	---	---	---	-40.2	---	---	---
MW-102	05/28/1998	<0.1	350	---	---	<24	210	3
MW-102	04/27/1999	<0.1	410	2.7	-82.4	11	250	---
MW-102	08/10/1999	---	240	2.2	-157.1	26	180	---
MW-102A	08/11/1999	---	---	---	---	---	---	---
MW-103	05/29/1996	---	---	---	---	---	---	---
MW-103	10/22/1996	0.5	350	---	---	170	600	280
MW-103	02/18/1998	---	---	---	-118.6	---	---	---
MW-103	05/28/1998	<0.1	210	---	---	140	500	220
MW-103	04/27/1999	<0.1	37	1.9	102.5	12	110	---

---=Not analyzed

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Sulfide (mg/l)	Chloride (mg/l)	Soluble Iron (mg/l)	Oxidation Reduction Potential (mV)	BOD (mg/l)	COD (mg/l)	TOC (mg/l)
MW-104	05/29/1996	---	---	---	---	---	---	---
MW-104	10/22/1996	<0.1	10	---	---	<8	46	11
MW-104	02/18/1998	---	---	---	-83.4	---	---	---
MW-104	04/28/1999	---	---	---	12.50	---	---	---
MW-105	05/29/1996	---	---	---	---	---	---	---
MW-105	10/22/1996	<0.1	290	---	---	<4	<20	5
MW-105	02/18/1998	---	---	---	12.9	---	---	---
MW-105	04/28/1999	<0.1	34	0.06	126.6	<4	<20	---
MW-106	07/18/1997	---	---	<0.1	107.0	---	---	---
MW-106	02/18/1998	---	---	---	2.2	---	---	---
MW-106	04/28/1999	<0.1	3	0.09	---	<4	<20	---
MW-107	07/18/1997	---	---	0.2	118	---	---	---
MW-107	02/18/1998	---	---	---	2.2	---	---	---
MW-107	04/27/1999	<0.1	2	0.15	---	<4	<20	---
MW-108	07/21/1997	---	---	<0.1	410	---	---	---
MW-108	02/18/1998	---	---	---	-4.2	---	---	---
MW-108	04/28/1999	<0.1	10	0.11	159.1	<4	<20	---
MW-109	02/18/1998	---	---	---	8.2	---	---	---
MW-109	05/28/1998	<0.1	210	---	---	<8	53	20
MW-109	04/27/1999	---	---	---	194.5	---	---	---

---=Not analyzed

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Sulfide (mg/l)	Chloride (mg/l)	Soluble Iron (mg/l)	Oxidation Reduction Potential (mV)	BOD (mg/l)	COD (mg/l)	TOC (mg/l)
MW-109	08/11/1999	---	---	---	152	<4	<0.05	---
MW-111	02/18/1998	---	---	---	-17.9	---	---	---
MW-112	04/28/1999	<0.1	98	0.21	-2.70	<4	40	---
MW-112	08/11/1999	---	76	0.06	41.7	12	<20	---
MW-113	04/28/1999	<0.1	74	1.2	-142.7	<4	120	---
MW-113	08/11/1999	---	97	2.3	-1.0	<4	63	---
MW-201	07/18/1997	---	---	1.4	30	---	---	---
MW-201	02/18/1998	---	---	---	-7.2	---	---	---
MW-201	04/28/1999	<0.1	23	0.08	21.3	<4	<20	---
MW-201	08/10/1999	---	---	---	-132	---	---	---
MW-202	07/21/1997	---	---	0.3	125	---	---	---
MW-202	02/18/1998	---	---	---	-41.9	---	---	---
MW-202	04/28/1999	<0.1	27	0.04	140.0	4	30	---
MW-202	08/10/1999	---	---	---	6.8	---	---	---
MW-203	07/21/1997	---	---	---	---	---	---	---
MW-203	02/18/1998	---	---	---	-68.8	---	---	---
MW-203	04/28/1999	---	---	---	190.1	---	---	---
MW-203	08/11/1999	---	---	---	51.4	---	---	---

---=Not analyzed

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Specific Conductivity (umho)	MBAS (mg/l)	Nitrate plus Nitrite (as N) (mg/l)	Surfactants (mg/l)	Temperature (C)	Total Residual Chlorine (mg/l)	Free Residual, Chlorine (mg/l)
MW-101	05/29/1996	---	---	---	7.2	---	---	---
MW-101	10/22/1996	---	0.17	<0.2	---	---	0.04	0.05
MW-101	07/18/1997	784	<0.05	---	---	15.9	<0.1	---
MW-101	02/18/1998	620	0.09	---	---	8.0	---	---
MW-101	05/28/1998	---	---	---	---	---	---	---
MW-101	04/27/1999	519	0.11	<0.2	---	8.97	0.04	---
MW-101	08/10/1999	911	---	---	---	13.9	0.00	---
MW-102	05/29/1996	---	---	---	20.1	---	---	---
MW-102	10/22/1996	---	5.0	<0.2	---	---	0.03	0.02
MW-102	07/21/1997	480	0.62	---	---	14.0	<0.1	---
MW-102	02/18/1998	4200	0.28	---	---	9.6	---	---
MW-102	05/28/1998	---	---	---	---	---	---	---
MW-102	04/27/1999	3072	1.0	<0.2	---	9.51	0.09	---
MW-102	08/10/1999	2589	0.82	---	---	14.7	0.10	---
MW-102A	08/11/1999	---	0.16	---	---	---	---	---
MW-103	05/29/1996	---	---	---	.83	---	---	---
MW-103	10/22/1996	---	5.0	<0.2	---	---	0.02	<0.02
MW-103	02/18/1998	3000	0.60	---	---	9.7	---	---
MW-103	05/28/1998	---	---	---	---	---	---	---
MW-103	04/27/1999	963.0	1.1	<0.2	---	12.29	0.04	---

---=Not analyzed

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Specific Conductivity (umho)	MBAS (mg/l)	Nitrate plus Nitrite (as N) (mg/l)	Surfactants (mg/l)	Temperature (C)	Total Residual Chlorine (mg/l)	Free Residual, Chlorine (mg/l)
MW-104	05/29/1996	---	---	---	525	---	---	---
MW-104	10/22/1996	---	4.4	0.4	---	---	0.05	<0.02
MW-104	02/18/1998	400	<0.05	---	---	9.3	---	---
MW-104	04/28/1999	365.0	<0.05	---	---	10.89	---	---
MW-105	05/29/1996	---	---	---	5.1	---	---	---
MW-105	10/22/1996	---	<0.05	<0.2	---	---	0.03	<0.02
MW-105	02/18/1998	1200	<0.05	---	---	10.1	---	---
MW-105	04/28/1999	882.0	---	<0.2	---	11.94	0.03	---
MW-106	07/18/1997	728	<0.05	---	---	16.5	<0.1	---
MW-106	02/18/1998	860	<0.05	---	---	8.5	---	---
MW-106	04/28/1999	---	---	<0.2	---	---	0.02	---
MW-107	07/18/1997	335	<0.05	---	---	13.6	<0.1	---
MW-107	02/18/1998	440	<0.05	---	---	8.2	---	---
MW-107	04/27/1999	---	---	0.2	---	---	0.02	---
MW-108	07/21/1997	520	<0.05	---	---	13.0	<0.1	---
MW-108	02/18/1998	960	<0.05	---	---	6.2	---	---
MW-108	04/28/1999	614.0	<0.65	<0.2	---	8.78	0.04	---
MW-109	02/18/1998	2200	0.62	---	---	8.8	---	---
MW-109	05/28/1998	---	---	---	---	---	---	---
MW-109	04/27/1999	1623	0.56	---	---	10.97	---	---

---=Not analyzed

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Specific Conductivity (umho)	MBAS (mg/l)	Nitrate plus Nitrite (as N) (mg/l)	Surfactants (mg/l)	Temperature (C)	Total Residual Chlorine (mg/l)	Free Residual, Chlorine (mg/l)
MW-109	08/11/1999	2210	0.53	---	---	14.85	0.10	---
MW-111	02/18/1998	900	<0.05	---	---	7.7	---	---
MW-112	04/28/1999	1249	0.11	<0.2	---	10.75	0.04	---
MW-112	08/11/1999	1041	<0.05	---	---	12.38	0.7	---
MW-113	04/28/1999	584.0	<0.05	<0.2	---	10.58	0.04	---
MW-113	08/11/1999	1892	0.52	---	---	12.35	1.0	---
MW-201	07/18/1997	953	0.12	---	---	16.1	<0.1	---
MW-201	02/18/1998	1000	<0.05	---	---	10.7	---	---
MW-201	04/28/1999	601	<0.05	<0.2	---	12.40	0.06	---
MW-201	08/10/1999	704	<0.05	---	---	12.89	0.05	---
MW-202	07/21/1997	620	<0.05	---	---	15.0	<0.1	---
MW-202	02/18/1998	800	<0.05	---	---	11.7	---	---
MW-202	04/28/1999	1121	<0.05	0.55	---	11.80	0.06	---
MW-202	08/10/1999	597	<0.05	---	---	13.81	0.16	---
MW-203	07/21/1997	---	<0.05	---	---	---	---	---
MW-203	02/18/1998	760	<0.05	---	---	8.3	---	---
MW-203	04/28/1999	529.0	<0.05	---	---	11.83	---	---
MW-203	08/11/1999	708	<0.05	---	---	14.44	0.01	---

---=Not analyzed

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Oxygen, dissolved (mg/l)	pH	TDS (mg/l)	Sodium (mg/l)
MW-101	05/29/1996	---	---	---	---
MW-101	10/22/1996	---	---	670	29
MW-101	07/18/1997	6.26	6.96	---	---
MW-101	02/18/1998	5.6	6.74	---	---
MW-101	05/28/1998	---	---	330	17
MW-101	04/27/1999	2.31	7.15	500	20
MW-101	08/10/1999	1.71	6.82	860	50
MW-102	05/29/1996	---	---	---	---
MW-102	10/22/1996	---	---	4200	1300
MW-102	07/21/1997	3.86	8.2	---	---
MW-102	02/18/1998	5.8	7.66	---	---
MW-102	05/28/1998	---	---	3000	910
MW-102	04/27/1999	7.61	7.62	3300	510
MW-102	08/10/1999	4.7	7.23	2400	480
MW-102A	08/11/1999	---	---	---	---
MW-103	05/29/1996	---	---	---	---
MW-103	10/22/1996	---	---	4800	1400
MW-103	02/18/1998	4.0	8.85	---	---
MW-103	05/28/1998	---	---	3800	1200
MW-103	04/27/1999	3.21	7.91	870	160

---=Not analyzed

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Oxygen, dissolved (mg/l)	pH	TDS (mg/l)	Sodium (mg/l)
MW-104	05/29/1996	---	---	---	---
MW-104	10/22/1996	---	---	580	1500
MW-104	02/18/1998	5.0	8.20	---	---
MW-104	04/28/1999	0.95	7.69	---	---
MW-105	05/29/1996	---	---	---	---
MW-105	10/22/1996	---	---	1300	240
MW-105	02/18/1998	3.4	6.48	---	---
MW-105	04/28/1999	3.67	6.69	750	99
MW-106	07/18/1997	2.75	7.03	---	---
MW-106	02/18/1998	2.8	6.65	---	---
MW-106	04/28/1999	---	---	420	31
MW-107	07/18/1997	8.25	6.37	---	---
MW-107	02/18/1998	6.6	6.87	---	---
MW-107	04/27/1999	---	---	310	5.4
MW-108	07/21/1997	6.59	7.3	---	---
MW-108	02/18/1998	5.8	6.77	---	---
MW-108	04/28/1999	2.17	6.83	510	32
MW-109	02/18/1998	4.0	6.72	---	---
MW-109	05/28/1998	---	---	1700	420
MW-109	04/27/1999	6.3	7.01	---	---

---=Not analyzed

APPENDIX C
TABLE 3
HISTORICAL GROUND WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 05/29/1996 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	Oxygen, dissolved (mg/l)	pH	TDS (mg/l)	Sodium (mg/l)
MW-109	08/11/1999	6.8	6.63	---	240
MW-111	02/18/1998	2.2	7.04	---	---
MW-112	04/28/1999	1.80	7.24	880	170
MW-112	08/11/1999	0.78	7.20	650	49
MW-113	04/28/1999	1.55	7.77	700	50
MW-113	08/11/1999	6.0	7.16	1000	230
MW-201	07/18/1997	1.30	6.75	---	---
MW-201	02/18/1998	5.2	7.05	---	---
MW-201	04/28/1999	3.81	7.81	510	49
MW-201	08/10/1999	1.3	7.27	---	---
MW-202	07/21/1997	3.72	8.00	---	---
MW-202	02/18/1998	6.8	7.7	---	---
MW-202	04/28/1999	3.87	11.97	440	74
MW-202	08/10/1999	1.5	10.12	---	---
MW-203	07/21/1997	---	---	---	---
MW-203	02/18/1998	5.1	7.8	---	---
MW-203	04/28/1999	1.91	7.62	---	---
MW-203	08/11/1999	1.16	8.09	---	---

---=Not analyzed

APPENDIX C
TABLE 4
HISTORICAL SURFACE WATER ANALYTICAL RESULTS
FIELD INDICATORS/ BIO PARAMETERS
FORMER MONARCH CHEMICAL FACILITY
GENEVA, NEW YORK

PERIOD: From 02/18/1998 thru 08/11/1999 - Inclusive
SAMPLE TYPE: Water

SITE	DATE	pH	Oxidation Reduction Potential (mV)	Specific Conductivity (umho)	Temperature (C)	Oxygen, dissolved (mg/l)	MBAS (mg/l)
SW-1	02/18/1998	7.23	-27.7	300	3.4	8.8	<0.05
SW-1	04/28/1999	---	---	---	---	---	<0.05
SW-1	08/11/1999	---	---	---	---	---	0.14
SW-2	02/18/1998	7.22	-28.9	300	3.3	8.6	<0.05
SW-2	04/28/1999	---	---	---	---	---	<0.05
SW-2	08/11/1999	---	---	---	---	---	0.12
SW-3	02/18/1998	7.12	-23.1	320	3.6	9.0	<0.05
SW-3	04/28/1999	---	---	---	---	---	0.07
SW-3	08/11/1999	---	---	---	---	---	0.12

---=Not analyzed

LETTER OF TRANSMITTAL

Delta Environmental Consultants, Inc.

4068 Mt. Royal Blvd, Suite 225-Gamma
Allison Park, PA 15101
(412) 487-7700
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TO: David Crisman
Senior Environmental Engineer
Environmental, Health & Safety
H.B. Fuller Company
PO Box 64683
St. Paul, MN 55164-0683

FROM: Steve Zbur

DATE: August 21, 2000

SUBJECT: **Compilation of Site Data Report**
H.B. Fully Company
Geneva, New York

PROJECT #: S096-015-2

Enclosed are three copies of the referenced report.