588IHSSF1066

DocumentID	NONCD0001814
Site Name	HAMILTON BEACH/PROCTOR SILEX
DocumentType	Progress/Monitoring Rpt (PRGMON)
RptSegment	1
DocDate	10/2/2002
DocRcvd	2/20/2007
Box	SF1066
AccessLevel	PUBLIC
Division	WASTE MANAGEMENT
Section	SUPERFUND
Program	IHS (IHS)
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Michael F. Easley
Governor

William G. Ross Jr., Secretary
Department of Environment and Natural Resources

Alan W. Klimek, P.E. Director
Division of Water Quality

DIVISION OF WATER QUALITY
GROUNDWATER SECTION
October 2, 2002

Mr. Mario Kuhar
Hamilton Beach◊Proctor-Silex, Inc.
442 Waterfront Drive
Glen Allen, Virginia 23060

RE: Quarterly Groundwater Sampling
Hamilton Beach◊Proctor-Silex, Inc.
Washington, Beaufort County, North Carolina
Groundwater Incident Number - #14338

Dear Mr. Kuhar:

The Washington Regional Office received the above report, prepared by URS Corporation, dated October 2002. We appreciate you submitting this report to our office.

Please continue to monitor groundwater quality until four consecutive quarterly monitoring events reveal contaminant levels below the groundwater standards listed in Title 15A North Carolina Administrative Code, Subchapter 2L (15A NCAC 2L).

We appreciate your cooperation along with your effort to protect the state's groundwater resources. Should you have any questions regarding this matter, please don't hesitate to call me at 252-946-6481, extension 354.

Sincerely,

Michelle Volosin
Groundwater Section

cc: URS Corporation- 1600 Perimeter Park Drive, Morrisville, North Carolina 27709
WaRO

URS

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OCT 2 - 2002

269

October 1, 2002

Ms. Michele Volosin
North Carolina Department of Environment
and Natural Resources
934 Washington Square Mall
Washington, North Carolina 27889

RE: Groundwater Monitoring Report for August 2002
Groundwater Incident No. 14338
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Dear Ms. Volosin:

On behalf of Hamilton Beach◊Proctor-Silex, Inc., URS is submitting one copy of the referenced report.

If you have any questions, please contact Mario Kuhar at (804) 527-7222.

Sincerely,

URS CORPORATION

James Narkunas
Sr. Staff Scientist

Enclosure

cc: Mario Kuhar, Hamilton Beach◊Proctor-Silex
Project File

URS Corporation
1600 Perimeter Park Drive, Suite 100
Morrisville, NC 27560
Tel: 919.461.1100
Fax: 919.461.1415

RECEIVED
OCT 2 - 2002

URS

Prepared for:

Hamilton Beach◊Proctor-Silex, Inc.
4421 Waterfront Drive
Glen Allen, Virginia 23060

GROUNDWATER MONITORING REPORT FOR AUGUST 2002

October 2002

Prepared by:
URS Corporation
1600 Perimeter Park Drive, Suite 100
Morrisville, North Carolina 27560

GROUNDWATER MONITORING REPORT
FOR AUGUST 2002
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Groundwater Incident No. 14338
Site Priority Ranking B

Prepared for:
Hamilton Beach◊Proctor-Silex, Inc.
4421 Waterfront Drove
Glen Allen, Virginia 23060

Prepared by:
URS Corporation
1600 Perimeter Park Drive, Suite 100
Morrisville, North Carolina 27560

October 2002

CERTIFICATION PAGE

GROUNDWATER MONITORING REPORT FOR AUGUST 2002
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Groundwater Incident No. 14338
Site Priority Ranking B

I, James Narkunas, a Licensed Geologist in the State of North Carolina, certify that this report and its contents have been prepared under my direct control and personal supervision.

James Narkunas 8/30/02

James Narkunas
NC 399

Date

NORTH CAROLINA LICENSED SEAL 399 GEOLOGIST JAMES NARKUNAS

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1.0 INTRODUCTION

The Hamilton Beach◊Proctor-Silex (HB◊PS) facility is located at 234 Springs Road, north of the City of Washington, in Beaufort County, North Carolina (Figure 1-1). The facility and surrounding land parcel are owned by the City of Washington and have been leased by HB◊PS since 1990 and previously leased by predecessor companies. The facility was formerly involved in the final assembly, packaging, and warehousing of small electrical household appliances.

Since 1992, when organic compounds were initially detected in groundwater at the site, several phases of investigation have been performed, including a comprehensive site assessment (CSA). The results of the CSA indicated that a plume of organic compounds is present in groundwater underlying the site. The specific nature, volume, and time period of any releases contributing to the plume are unknown. However, the principal constituents of the plume are no longer used at the facility.

A plan for corrective action at the site has been proposed. Until corrective action is implemented, groundwater will be sampled and analyzed on a quarterly schedule according to a monitoring program requested and approved by the North Carolina Department of Environment and Natural Resources, Groundwater Section. Quarterly groundwater monitoring is to be conducted in February, May, August, and November at seven wells: MW-220, -222, -224, -225, -226, -230, and -234. These wells are located outside of the contaminant plume. In February and August, the following six additional wells will be sampled: MW-213, -214, -215, -216, -227, and -228. These wells are located within the contaminant plume. The purpose of the monitoring program is to detect potential migration of the plume.

URS Corporation (URS) conducted groundwater sampling at the facility in August 2002. The sampling event included the measurement of water levels, temperature, pH, and specific conductance; and the collection and analysis of samples from thirteen monitoring wells. This report describes the sampling methods and presents the results for the quarterly sampling event.

2.0 FIELD METHODS

Groundwater was sampled on August 20 and 21, 2002 in general accordance with the methods outlined in the *Field Sampling and Analysis Plan* prepared in April 1997 for this site.

Twelve monitoring wells were sampled. They included MW-213 through MW-216, MW-220, MW-222, MW-224 through MW-228, and MW-234. A sample was not collected from MW-230 due to insufficient water volume and no water-level recovery in the well after purging. The locations of the monitoring wells are shown in Figure 2-1. Details of well construction are provided in Table 2-1.

Prior to sampling, the water level in each well was measured using an electric water-level indicator. The wells were then purged using inertial foot-valve pumps, with the exception of wells MW-213, MW-215, and MW-228, which were purged with disposable bailers. Temperature, pH, and specific conductance were measured and the data were recorded in a field notebook. Purging continued until temperature, pH, and specific conductance stabilized; a minimum of three well volumes was extracted; or the well was pumped dry. Each of the wells was then sampled immediately following well purging using the inertial foot-valve pump or bailer. For QA/QC purposes, duplicate samples were collected at wells MW-214 and -226; and, a trip blank accompanied each sample shipment.

The groundwater samples were sent by overnight courier to STL in Austin, Texas, for analysis of volatile organic compounds by EPA Method 8260B.

3.0 RESULTS

3.1 Water Level Measurements

Table 3-1 presents the depth to groundwater and static water-level elevations measured in the thirteen wells sampled and seven additional wells. Maps showing the generalized direction of groundwater flow in hydrogeologic units A and B are included as Figures 3-1 and 3-2, respectively. Historical water-level elevations in sampled wells are included in Tables 3-2 to 3-14.

3.2 Analytical Results

Field measurements of water temperature, pH, and specific conductance are summarized in Table 3-15. Qualified analytical results are summarized in Table 3-16. The approximate extent of selected compounds that have been detected at concentrations exceeding groundwater standards are illustrated in Figures 3-3 through 3-17. Both current and historical data were used to approximate the extent of contaminants. Qualified data sheets and laboratory reports are included in Appendix A.

No analytes were detected above the groundwater standards in samples from wells located near the perimeter of the site (MW-220, MW-222, MW-224, MW-225, MW-230, and MW-234), nor were any analytes detected above the groundwater standards in the sample from well MW-226, which is completed in the confined Limestone Aquifer. Also, no analytes were detected above groundwater standards in samples collected from wells MW-215 and MW-216 which are located 120 feet and 350 feet from the source area, respectively. Concentrations of chemicals exceeding the standards were detected in samples from wells MW-213, MW-214, MW-227, and MW-228. These four wells are located at, or within 150 feet of, the source area.

Historical analytical results for the sampled wells are presented in Tables 3-17 to 3-29, and in graphs included as Appendix B. A comparison of the analytical record for wells

located near the perimeter of the site suggests that the plume remains on-site, at least 200 feet from potential receptors located north of Spring Road (Figure 3-18). Concentrations measured over the past 12 to 18 months at wells MW-227 and MW-228, located in the source area, suggest an upward trend for several analytes. However, the latest results for wells MW-13 and MW-214, located in other interior portions of the site, are consistent with earlier results and indicate that no atypical changes in chemical concentration and distribution have occurred.

FIGURES

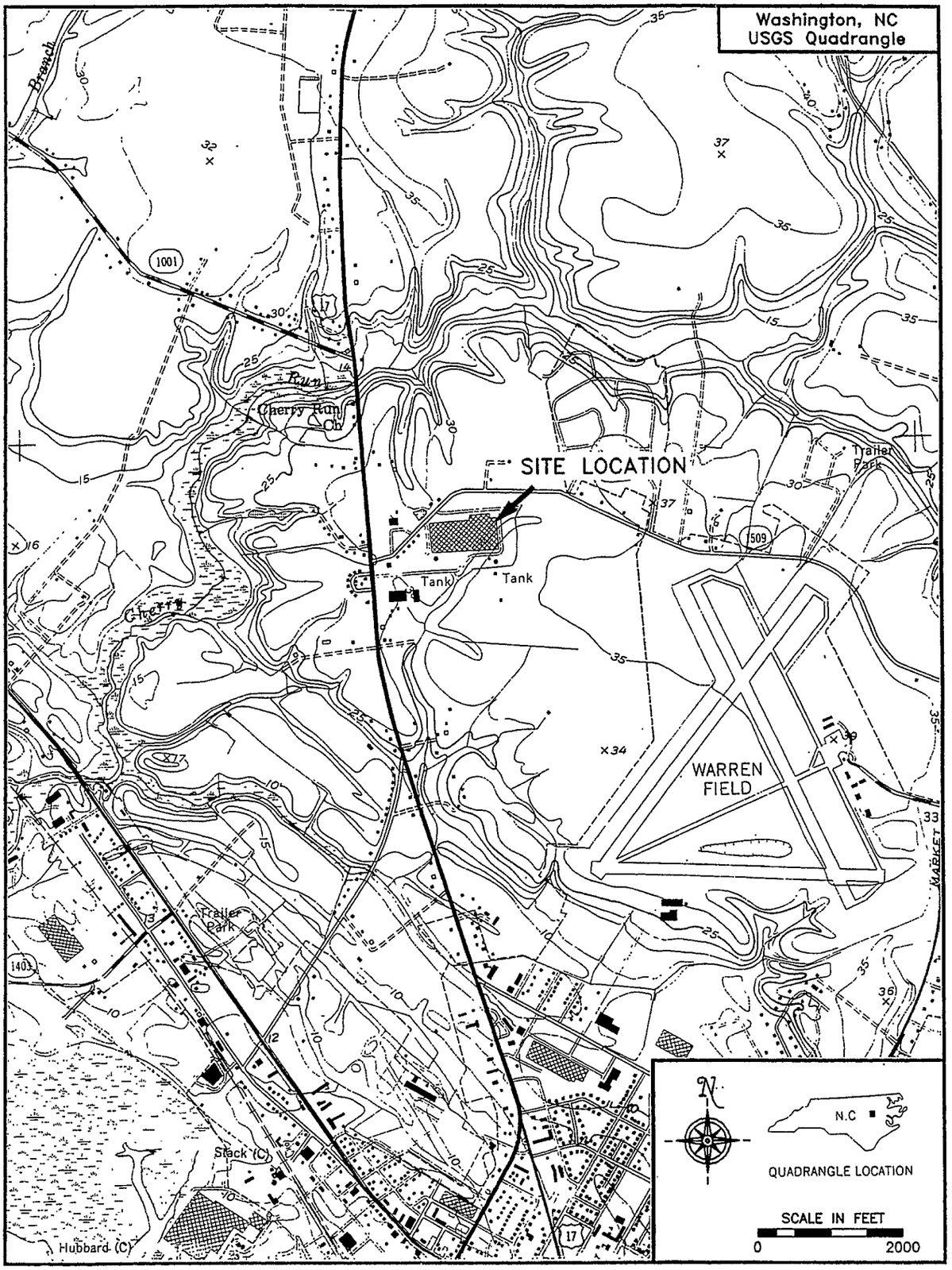
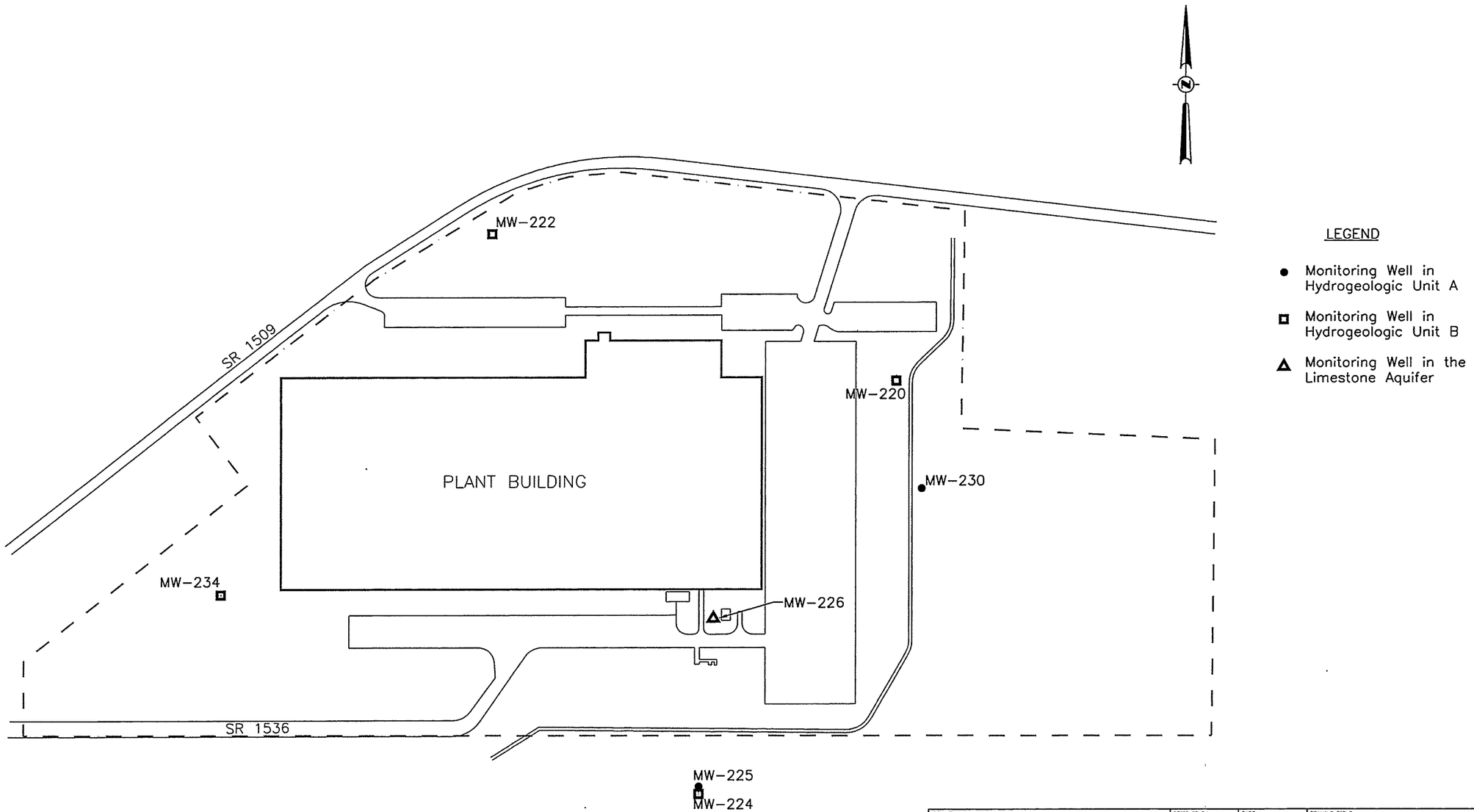


Figure 1-1. Topographic Map
Hamilton Beach◊Proctor-Silex, Inc.



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	CHECKED BY: JN	DATE: 20FEB02	CONTRACT NO.: 80396913.01 / DRAWING NO.: MW-SITE1 / REV.: 0
	APPROVED BY: CLK	DATE: 20FEB02	

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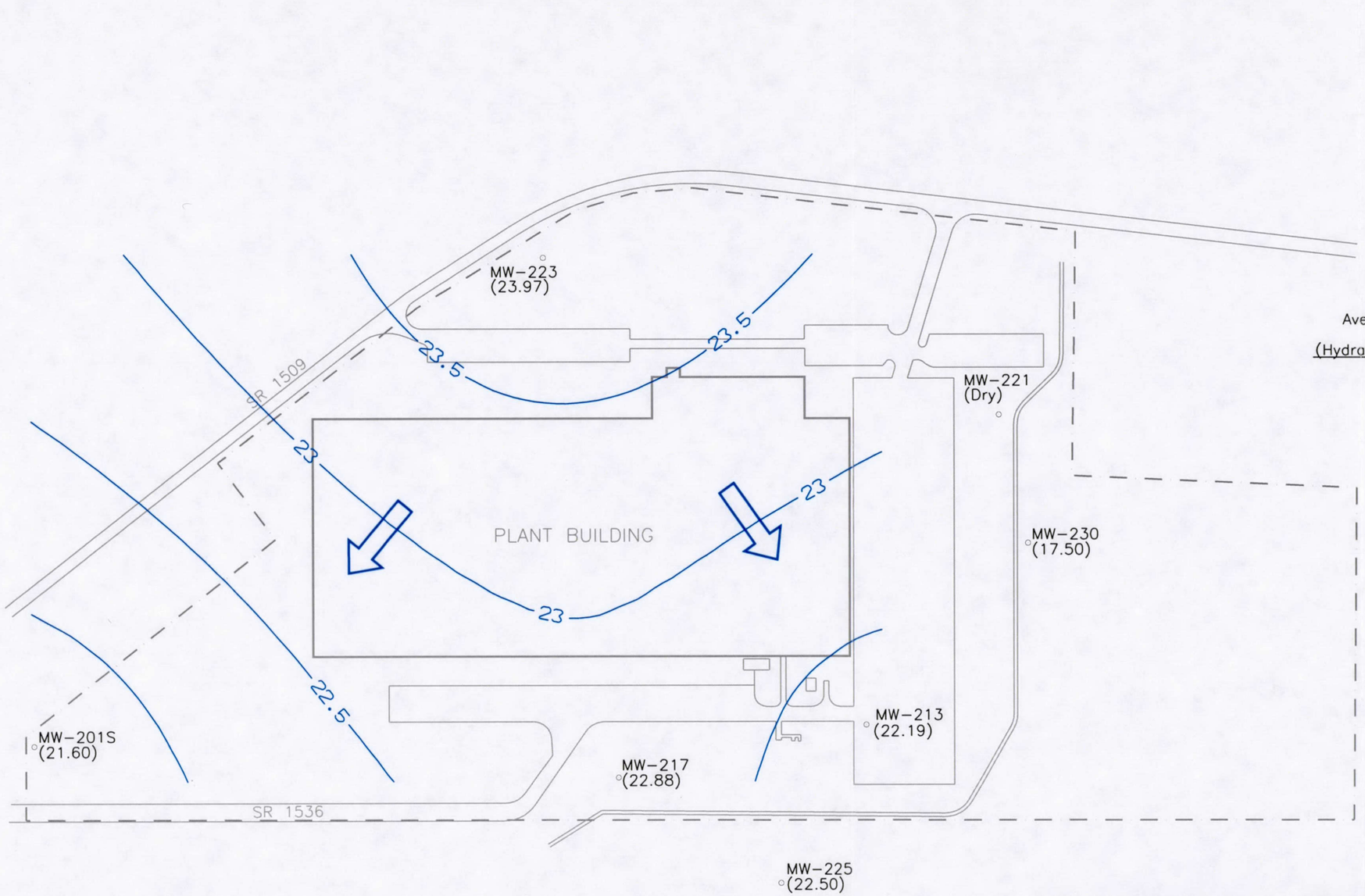

Average Groundwater Flow Velocity =

$$\frac{(\text{Hydraulic Conductivity})(\text{Hydraulic Gradient})}{\text{Effective Porosity}} = \frac{(0.07\ \text{ft/day})(0.002)}{0.12} = 0.001\ \text{ft/day}$$

LEGEND

- Monitoring Well
- Generalized Flow Direction
- Groundwater Elevation Contour

Water level elevations measured on 8/22/02 shown in parentheses.

200 0 200

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SCALE: AS SHOWN	DESIGNED BY: TSH	DATE: 22AUG02	DRAWING TITLE: Figure 3-1. Generalized Groundwater Flow Direction for Hydrogeologic Unit A Washington Facility	
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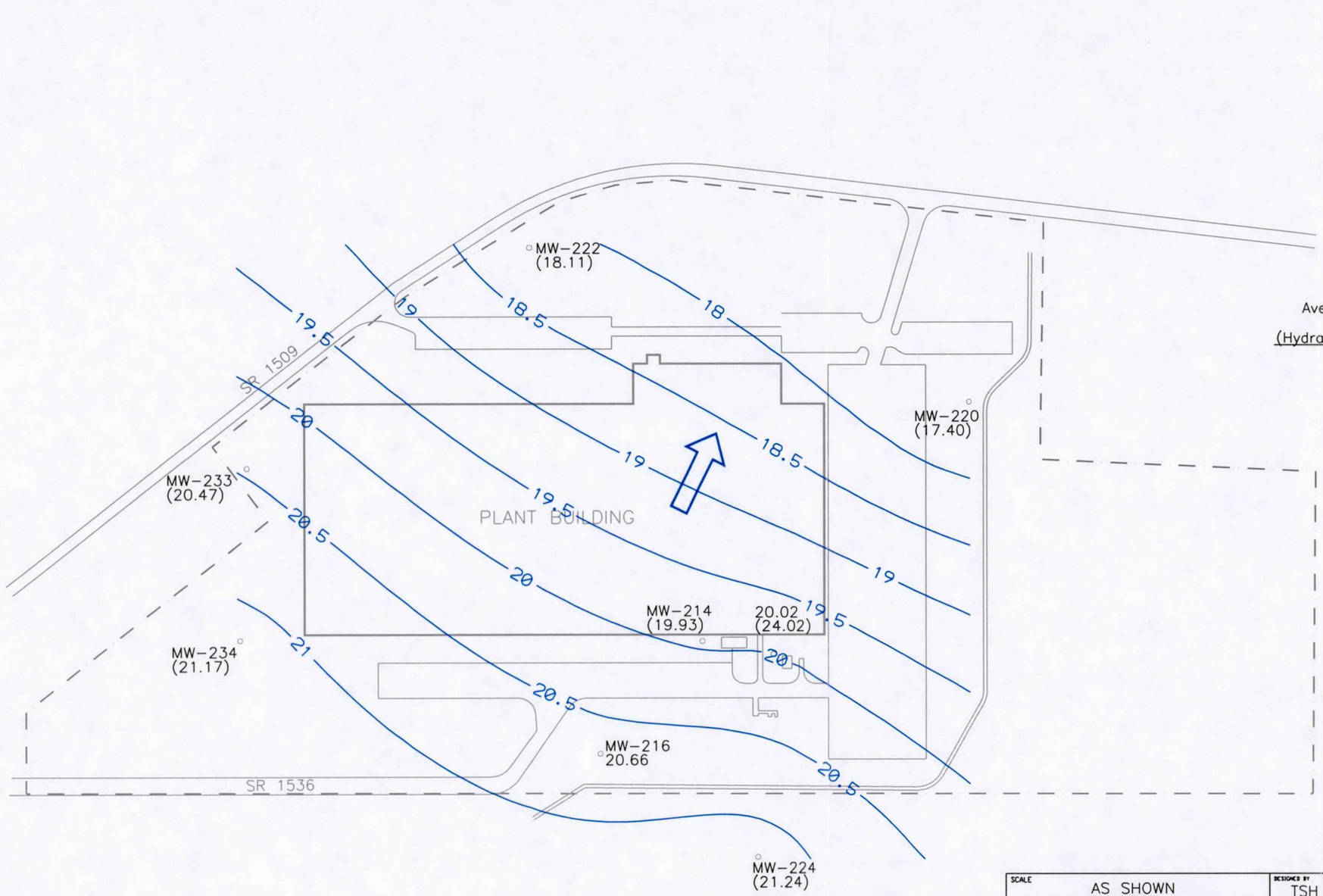
	APPROVED BY: JN	DATE: 23AUG02	CONTRACT NO.: 80396916.01	DRAWING NO.: AFLO-0802 / REV.: 0



Average Groundwater Flow Velocity =

$$\frac{\text{(Hydraulic Conductivity)(Hydraulic Gradient)}}{\text{Effective Porosity}} = \frac{(3\ \text{ft/day})(0.004)}{0.20} =$$

0.06 ft/day

LEGEND

- Monitoring Well
- Generalized Flow Direction
- Groundwater Elevation Contour

Water level elevations measured on 8/20/02 shown in parentheses.

200 0 200

SCALE IN FEET

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	APPROVED BY: JN	DATE: 23AUG02	CONTRACT NO.: 80396916.01	DRAWING NO.: BFLO-0802 / REV.: 0

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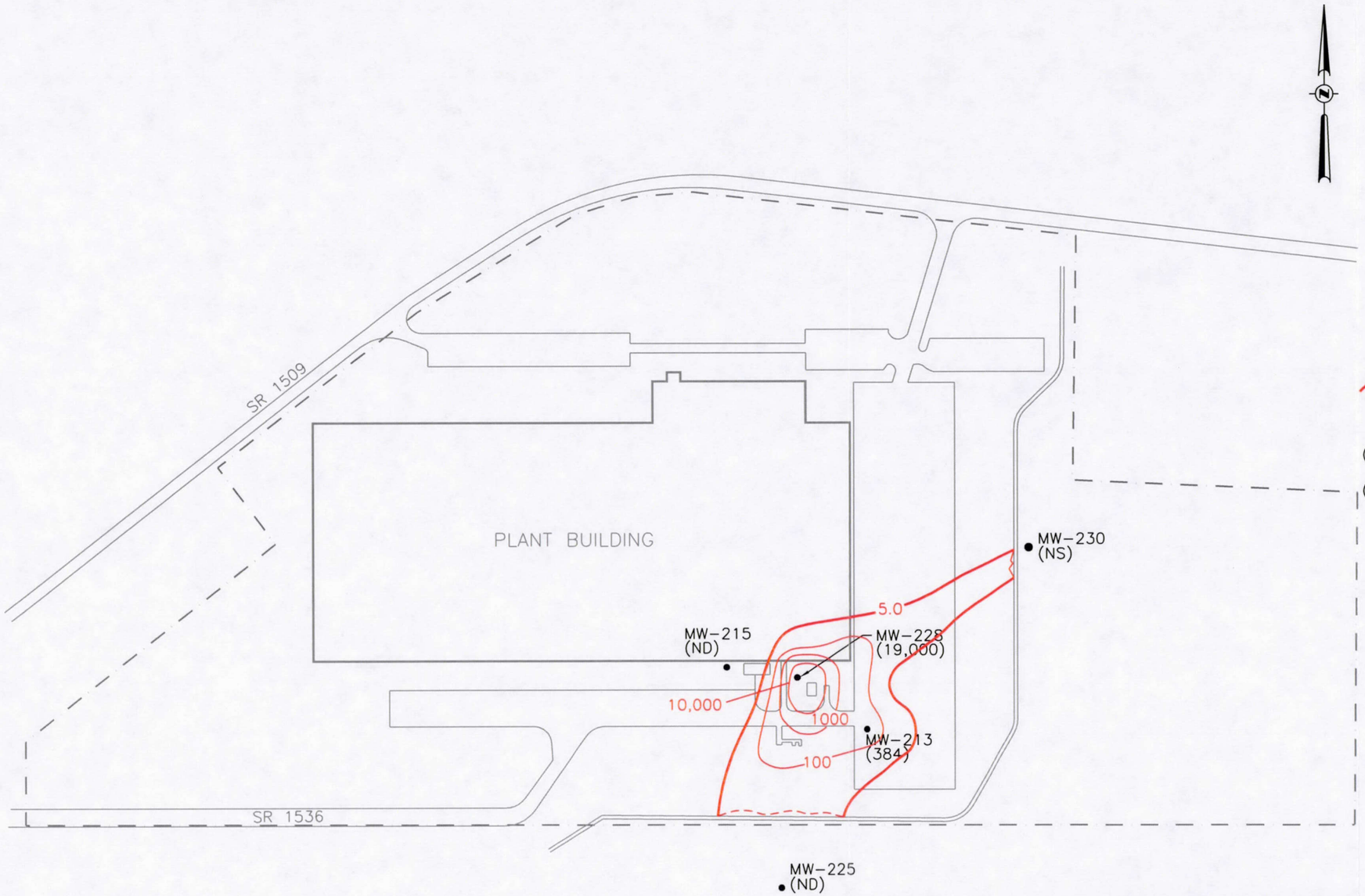

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates Estimated Quantitation Limit 5.0 ug/L
- (ND) Not Detected
- (NS) Not Sampled Due to Insufficient Groundwater Volume

200 0 200

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SCALE	DESIGNED BY	DATE	DRAWING TITLE
AS SHOWN	TSH	22AUG02	Figure 3-3. Aproximate Distribution of TCE in Unit A Hamilton Beach & Proctor Silex, Inc.
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	CHECKED BY JN	DATE 22AUG02	
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URS

RESEARCH TRIANGLE PARK, NORTH CAROLINA 27709

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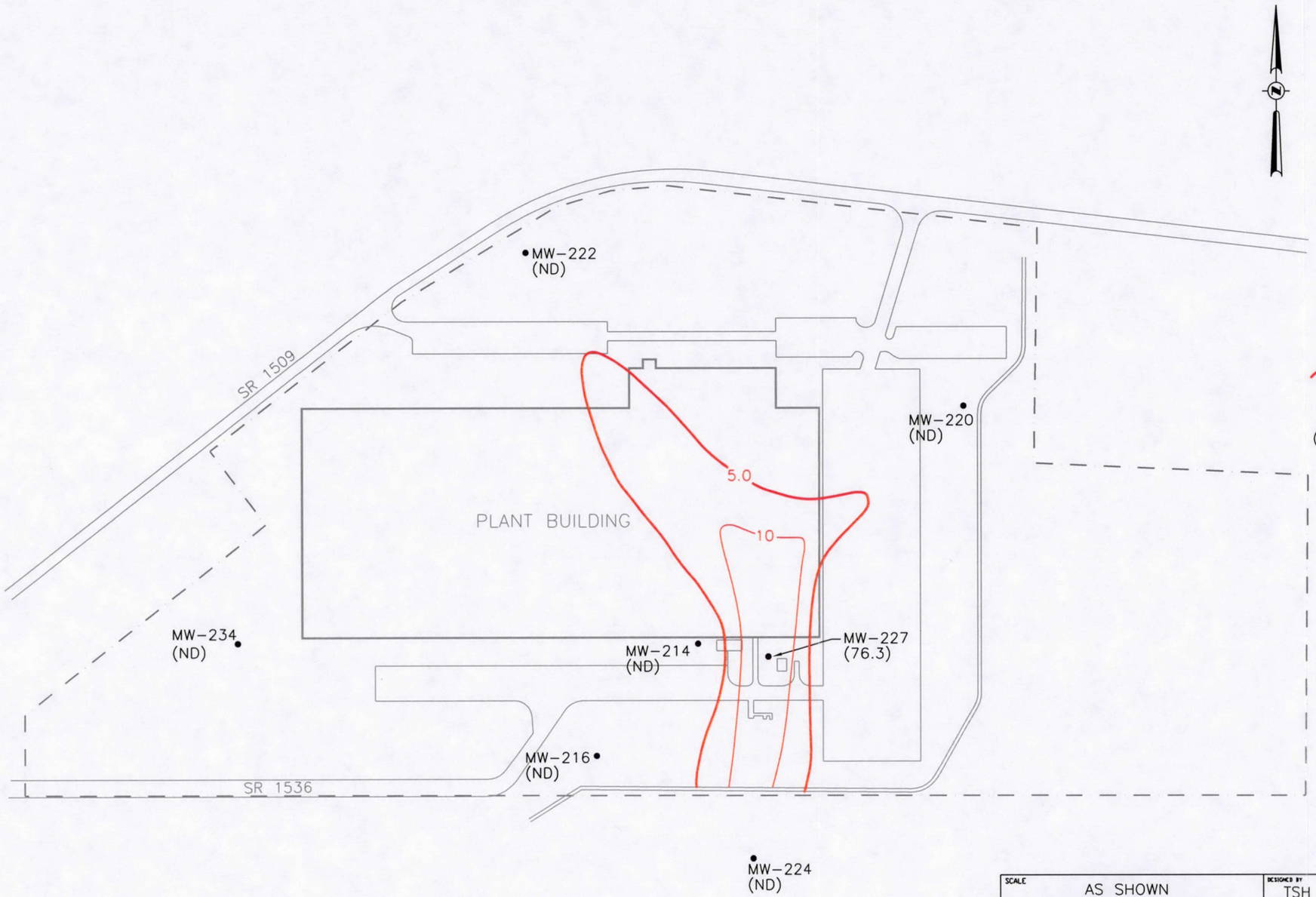

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates Estimated Quantitation Limit 5.0 ug/L
- (ND) Not Detected

200 0 200

SCALE IN FEET

SCALE: AS SHOWN	DESIGNED BY: TSH	DATE: 22AUG02	DRAWING TITLE: Figure 3-4. Aproximate Distribution of TCE in Unit B Hamilton Beach & Proctor Silex, Inc.	
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	CHECKED BY: JN	DATE: 22AUG02	CONTRACT NO.: 80396916.01	DRAWING NO.: 3-4-TCE / REV.: 0
	APPROVED BY: JN	DATE: 23AUG02		

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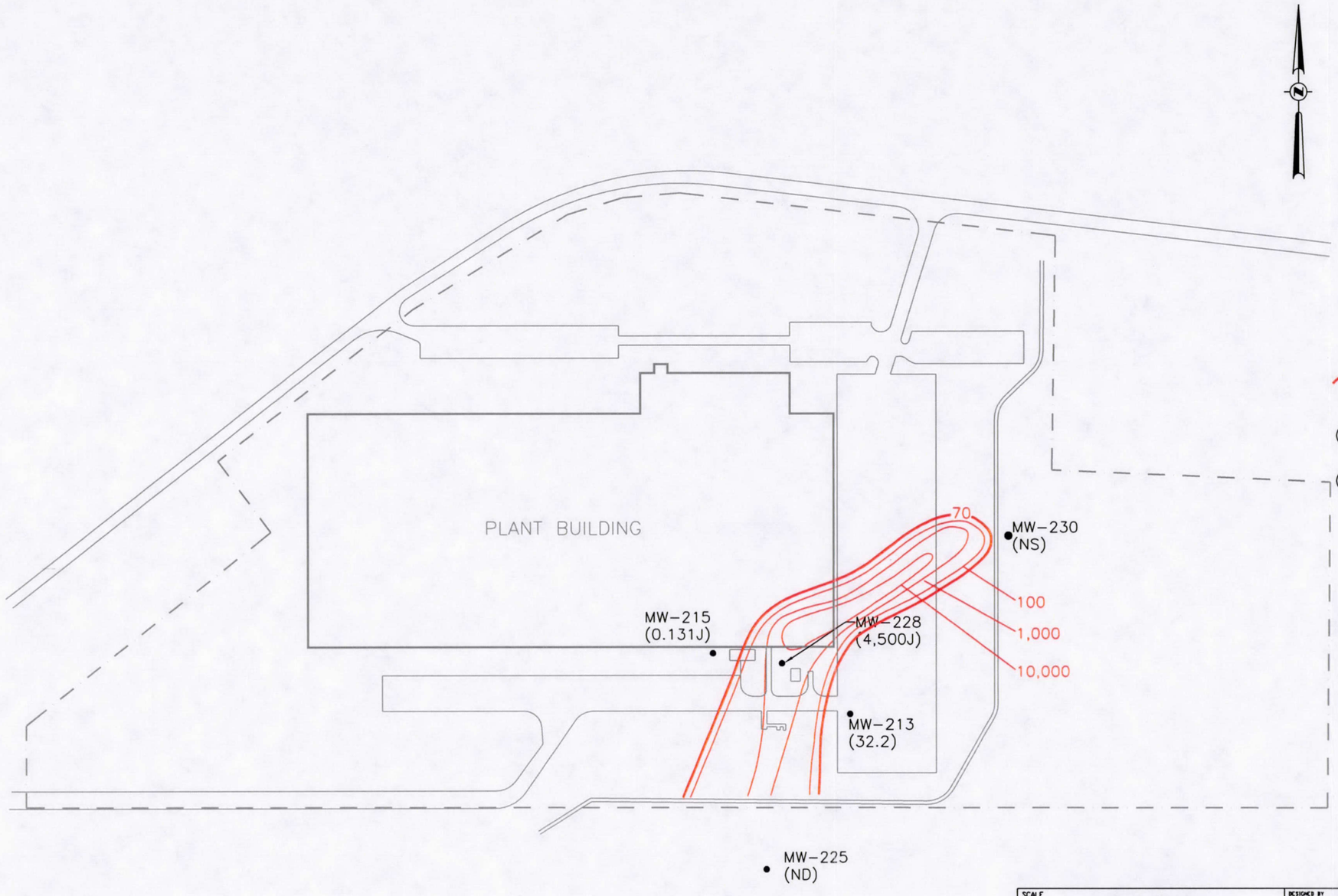

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates 2L Standard of 70 ug/L
- (ND) Not Detected
- (NS) Not Sampled Due to Insufficient Groundwater Volume

200 0 200

SCALE IN FEET

SCALE: AS SHOWN	DESIGNED BY: TSH	DATE: 22AUG02	DRAWING TITLE: Figure 3-5. Approximate Distribution of cis-1,2-Dichloroethene in Unit A Hamilton Beach & Proctor Silex, Inc.
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	APPROVED BY: JN	DATE: 23AUG02	

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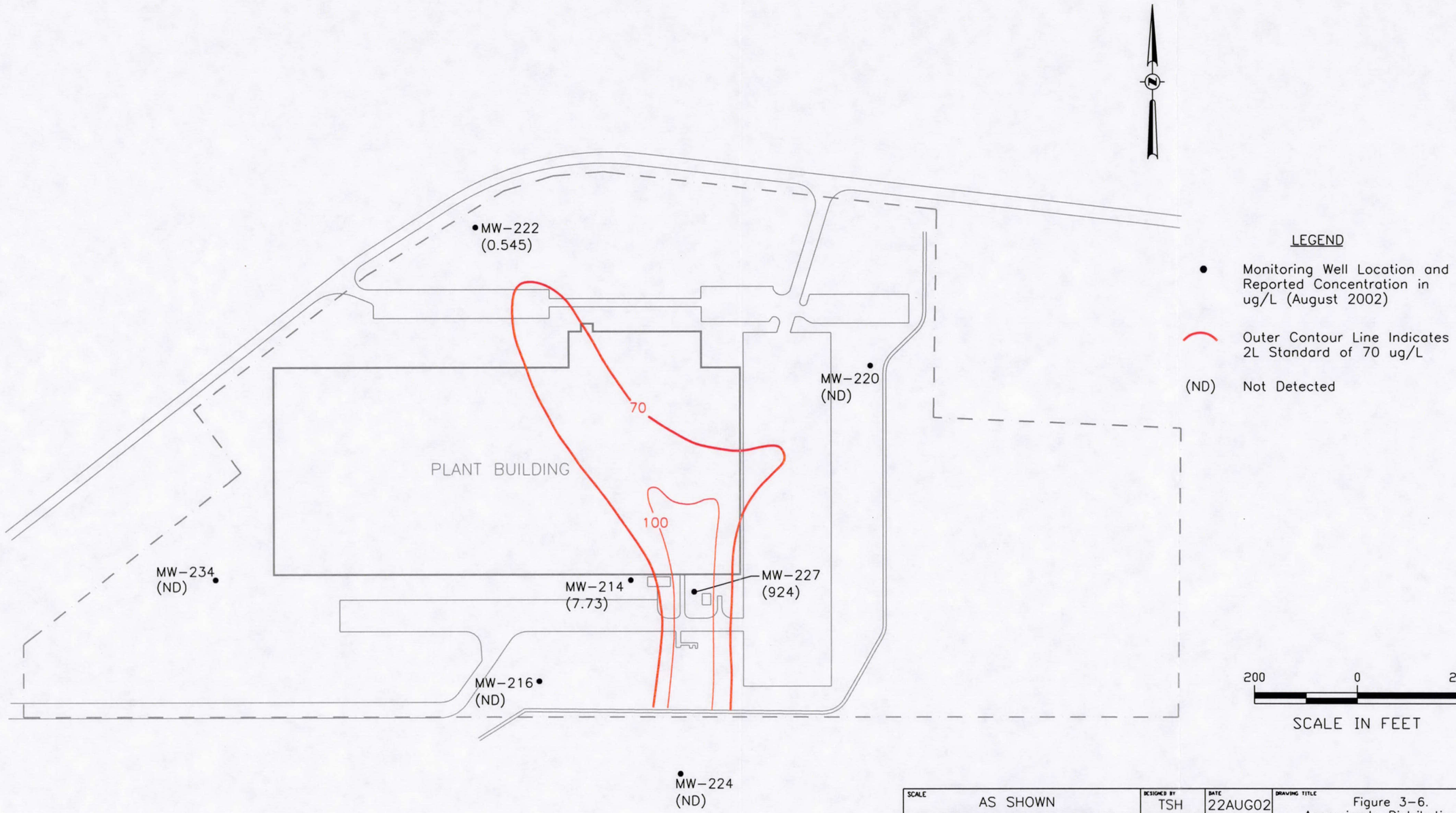

SCALE	DESIGNED BY	DATE	DRAWING TITLE
AS SHOWN	TSH	22AUG02	Figure 3-6. Approximate Distribution of cis-1,2-Dichlorothene in Unit B Hamilton Beach & Proctor Silex, Inc.
	DRAWN BY TSH	DATE 22AUG02	
	CHECKED BY JN	DATE 22AUG02	
	APPROVED BY JN	DATE 23AUG02	

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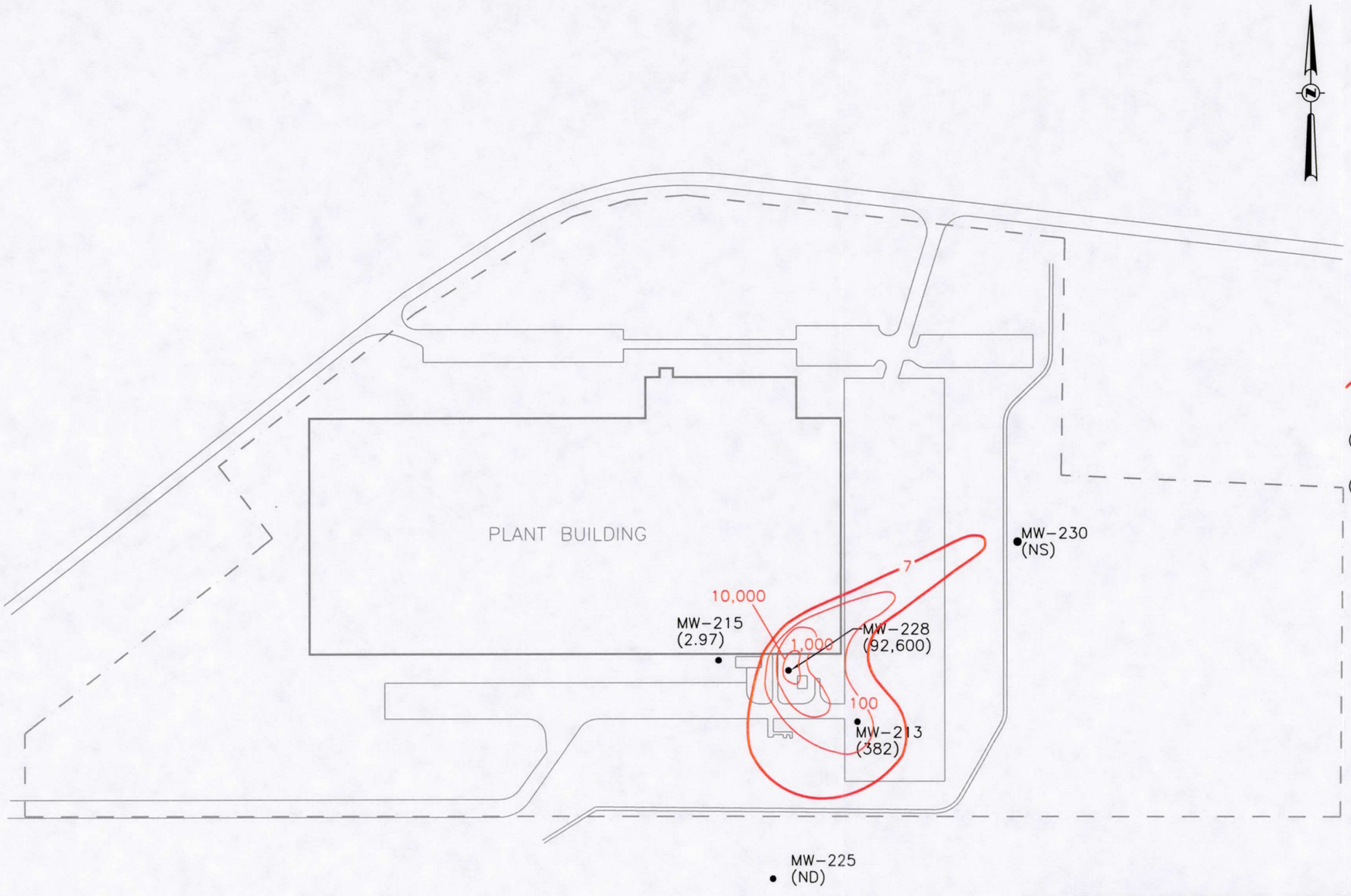

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates 2L Standard of 7 ug/L
- (ND) Not Detected
- (NS) Not Sampled Due to Insufficient Groundwater Volume

200 0 200

SCALE IN FEET

SCALE: AS SHOWN	DESIGNED BY: TSH	DATE: 22AUG02	DRAWING TITLE: Figure 3-7. Approximate Distribution of 1,1-Dichloroethene in Unit A Hamilton Beach & Proctor Silex, Inc.
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	CHECKED BY: JN	DATE: 22AUG02	CONTRACT NO.: 80396916.01 / DRAWING NO.: 3-7-DCE / REV.: 0
	APPROVED BY: JN	DATE: 23AUG02	

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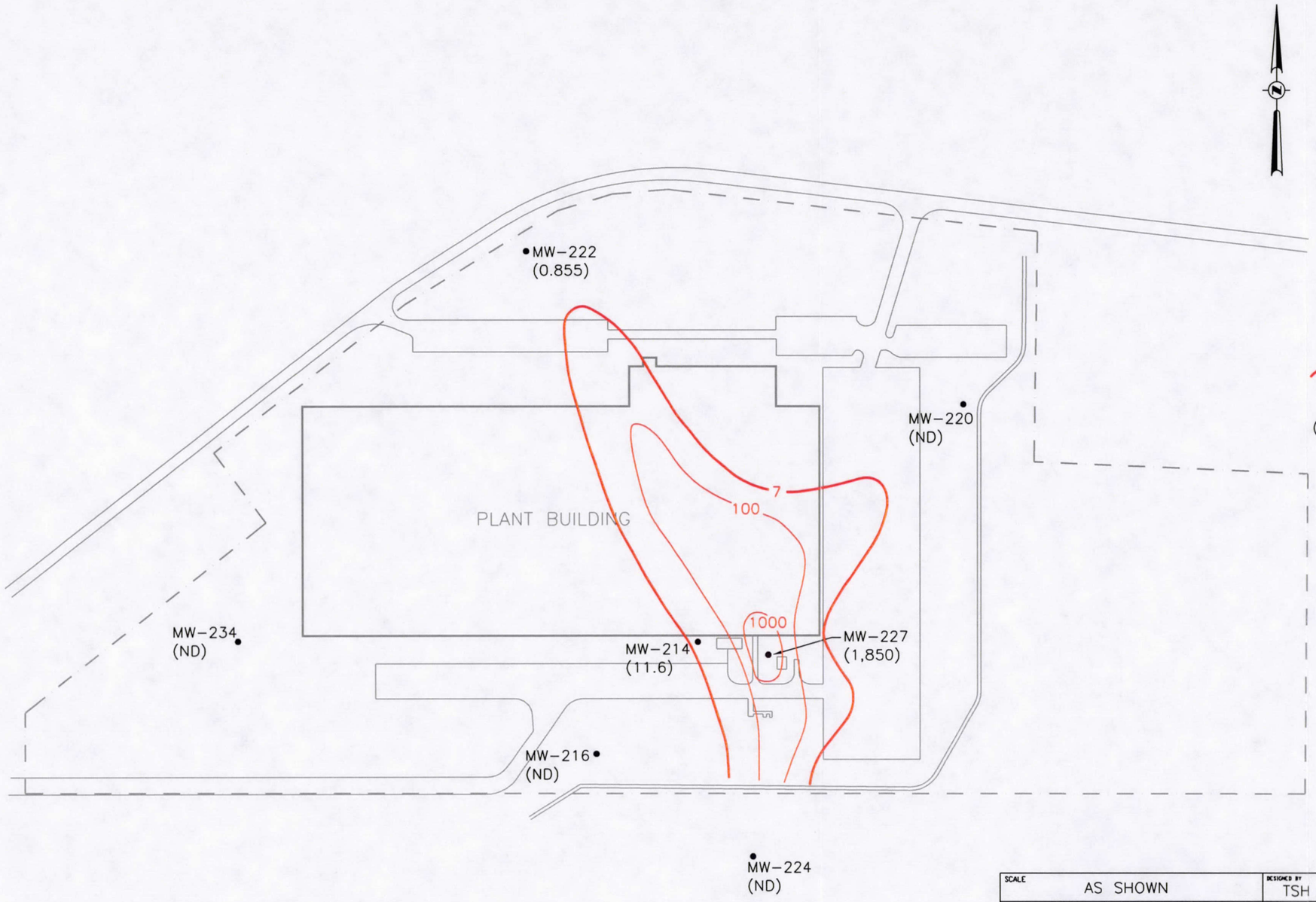

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates 2L Standard of 7 ug/L
- (ND) Not Detected

200 0 200

SCALE IN FEET

SCALE	DESIGNED BY	DATE	DRAWING TITLE
AS SHOWN	TSH	22AUG02	Figure 3-8. Approximate Distribution of 1,1-Dichloroethene in Unit B Hamilton Beach & Proctor Silex, Inc.
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	CHECKED BY JN	DATE 22AUG02	
	APPROVED BY JN	DATE 23AUG02	

CONTRACT NO.	DRAWING NO.	REV.
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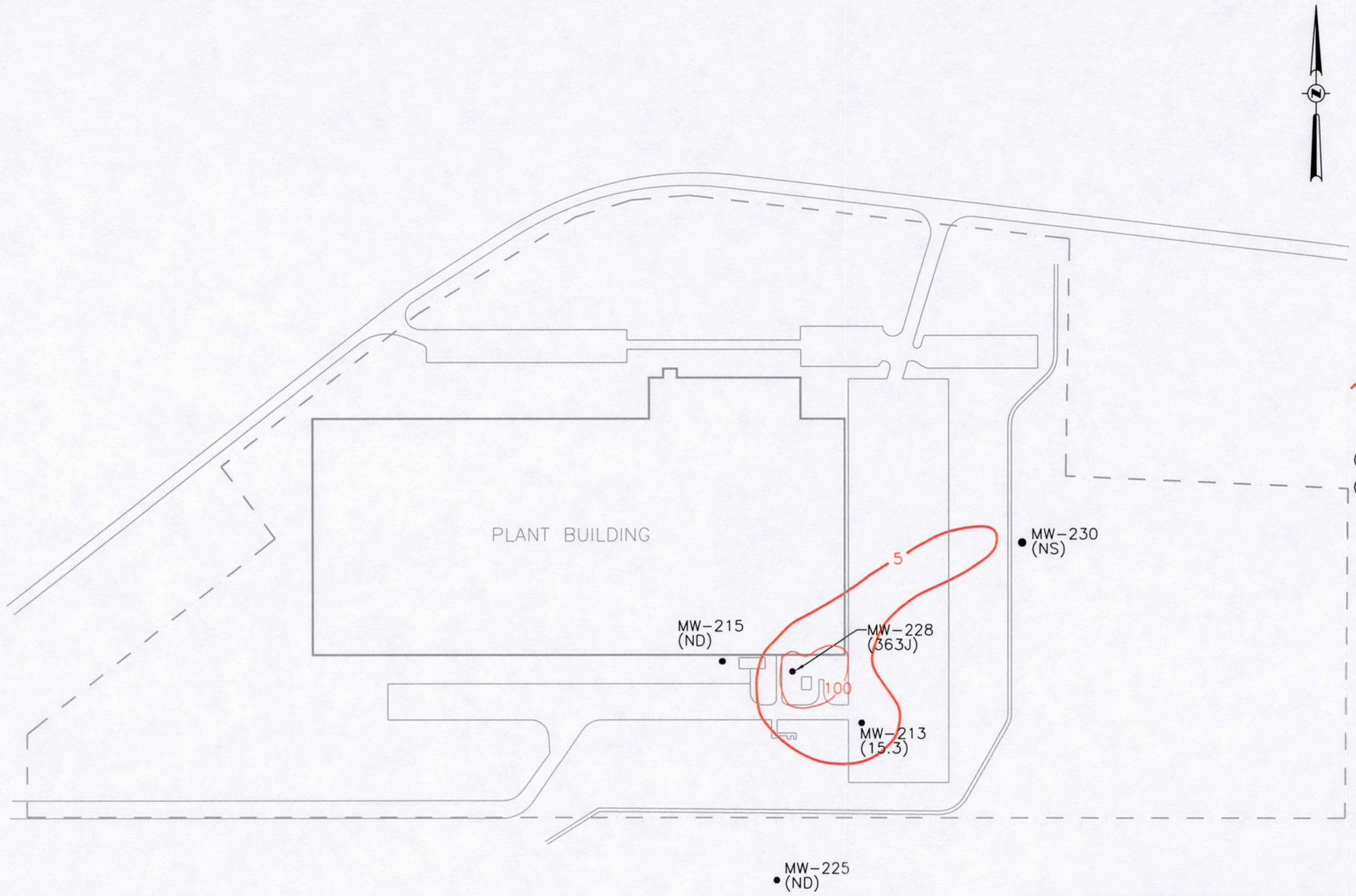

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates Estimated Quantitation Limit of 5 ug/L
- (ND) Not Detected
- (NS) Not Sampled Due to Insufficient Groundwater Volume

200 0 200

SCALE IN FEET

SCALE	DESIGNED BY	DATE	DRAWING TITLE
AS SHOWN	TSH	22AUG02	Figure 3-9. Approximate Distribution of Vinyl Chloride in Unit A Hamilton Beach & Proctor Silex, Inc.
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS RESEARCH TRIANGLE PARK, NORTH CAROLINA 27709	DRAWN BY TSH	DATE 22AUG02	
	CHECKED BY JN	DATE 22AUG02	CONTRACT NO. 80396916.01 / DRAWING NO. 3-9-VC / REV. 0
	APPROVED BY JN	DATE 23AUG02	

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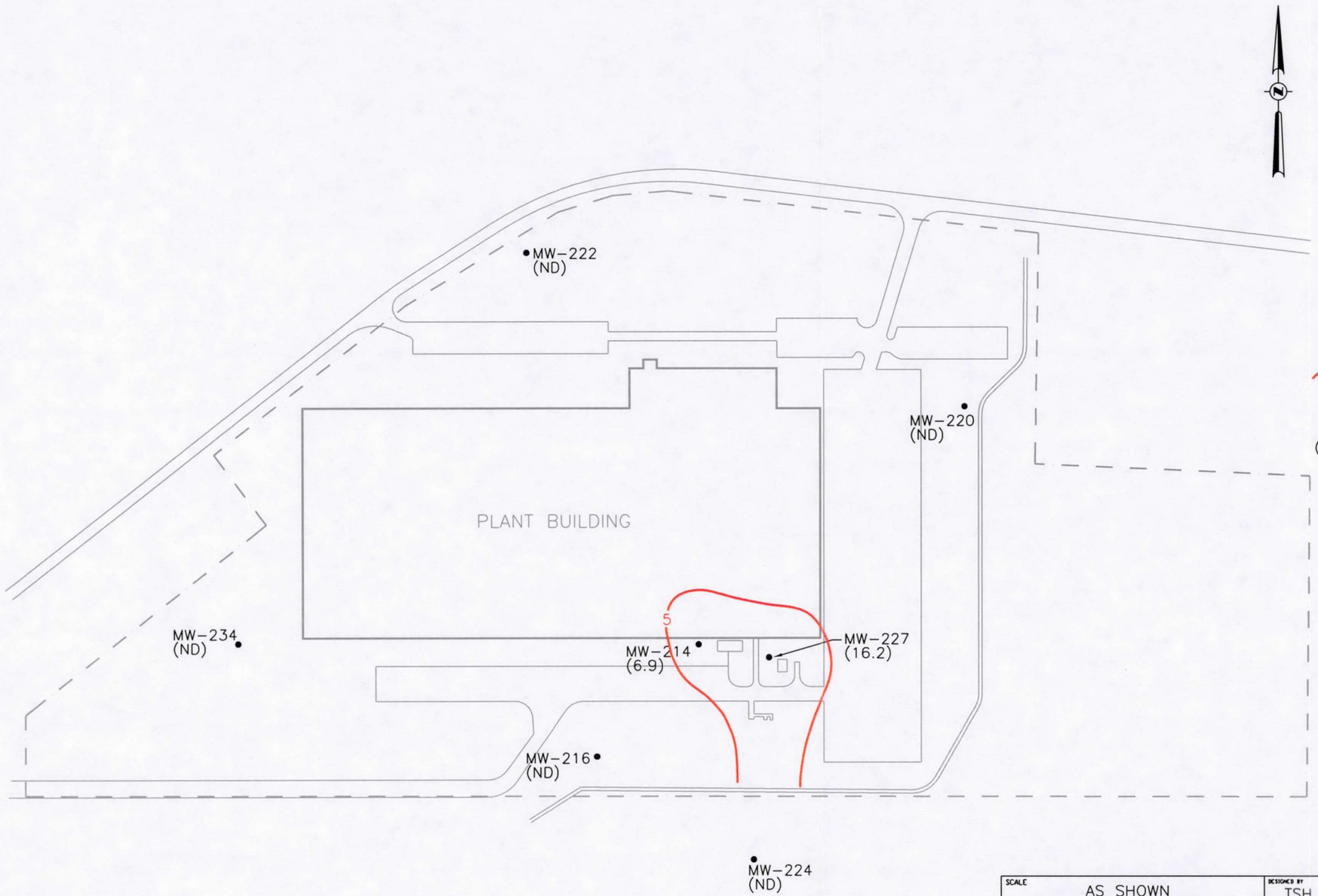

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates Estimated Quantitation Limit of 5 ug/L
- (ND) Not Detected

200 0 200

SCALE IN FEET

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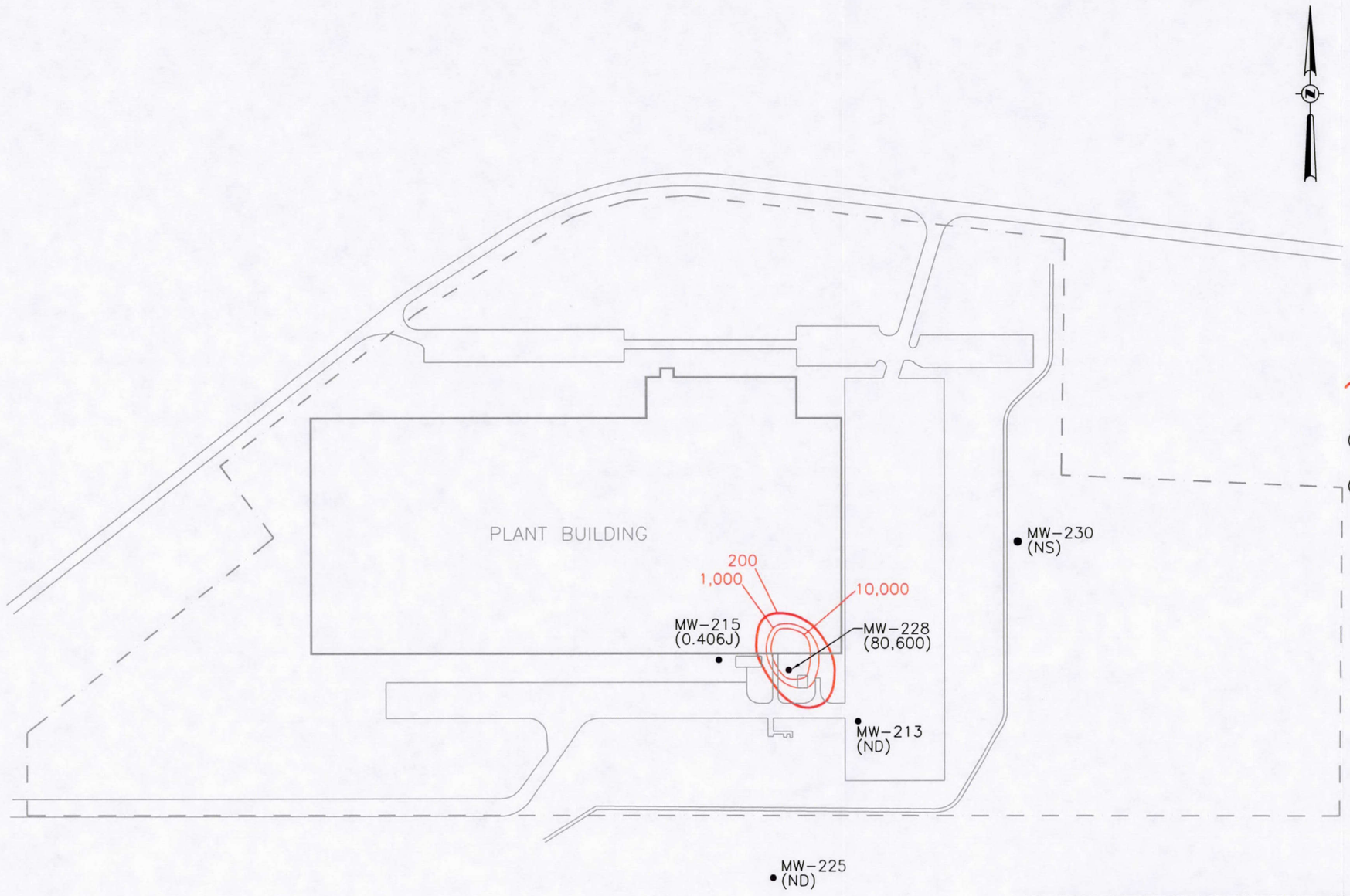
SCALE: AS SHOWN	DESIGNED BY: TSH	DATE: 22AUG02	DRAWING TITLE: Figure 3-10. Approximate Distribution of Vinyl Chloride in Unit B Hamilton Beach & Proctor Silex, Inc.
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS RESEARCH TRIANGLE PARK, NORTH CAROLINA 27709	DRAWN BY: TSH	DATE: 22AUG02	
	CHECKED BY: JN	DATE: 22AUG02	CONTRACT NO.: 80396916.01 / DRAWING NO.: 3-10-VC / REV.: 0
	APPROVED BY: JN	DATE: 23AUG02	



LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates 2L Standard of 200 ug/L
- (ND) Not Detected
- (NS) Not Sampled Due to Insufficient Groundwater Volume

200 0 200

SCALE IN FEET

SCALE: AS SHOWN	DESIGNED BY: TSH	DATE: 22AUG02	DRAWING TITLE: Figure 3-11. Approximate Distribution of 1,1,1-Trichloroethane in Unit A Hamilton Beach & Proctor Silex, Inc.	
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS RESEARCH TRIANGLE PARK, NORTH CAROLINA 27709	DRAWN BY: TSH	DATE: 22AUG02		
	CHECKED BY: JN	DATE: 22AUG02	CONTRACT NO.: 80396916.01	DRAWING NO.: 3-11-TCA / REV.: 0
	APPROVED BY: JN	DATE: 23AUG02		

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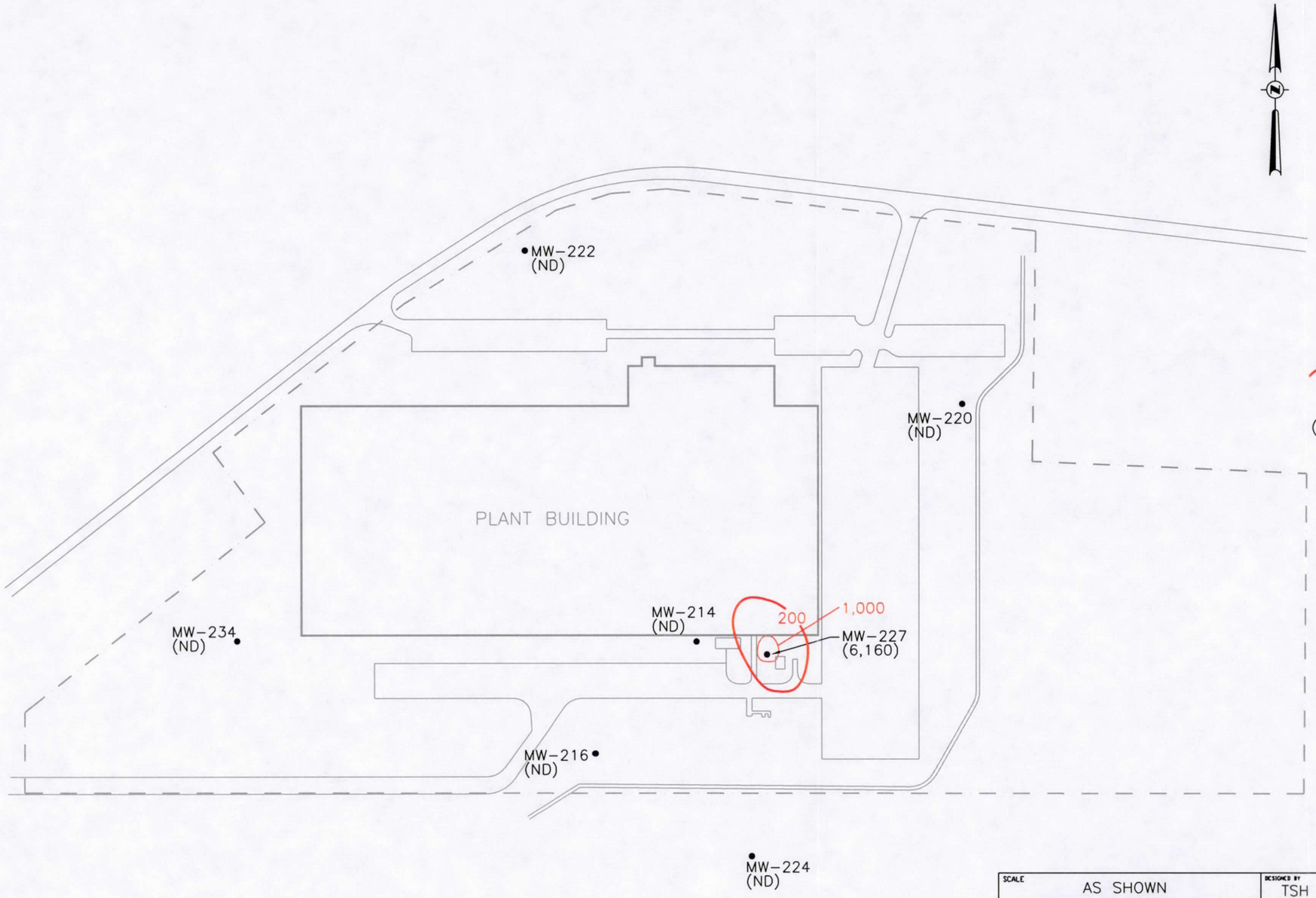

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates 2L Standard of 200 ug/L
- (ND) Not Detected

200 0 200

SCALE IN FEET

SCALE	DESIGNED BY	DATE	DRAWING TITLE
AS SHOWN	TSH	22AUG02	Figure 3-12. Approximate Distribution of 1,1,1-Trichloroethane in Unit B Hamilton Beach & Proctor Silex, Inc.
	DRAWN BY TSH	DATE 22AUG02	
	CHECKED BY JN	DATE 22AUG02	
	APPROVED BY JN	DATE 23AUG02	

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CONTRACT NO.	DRAWING NO.	REV.
80396916.01	3-12-TCA	0

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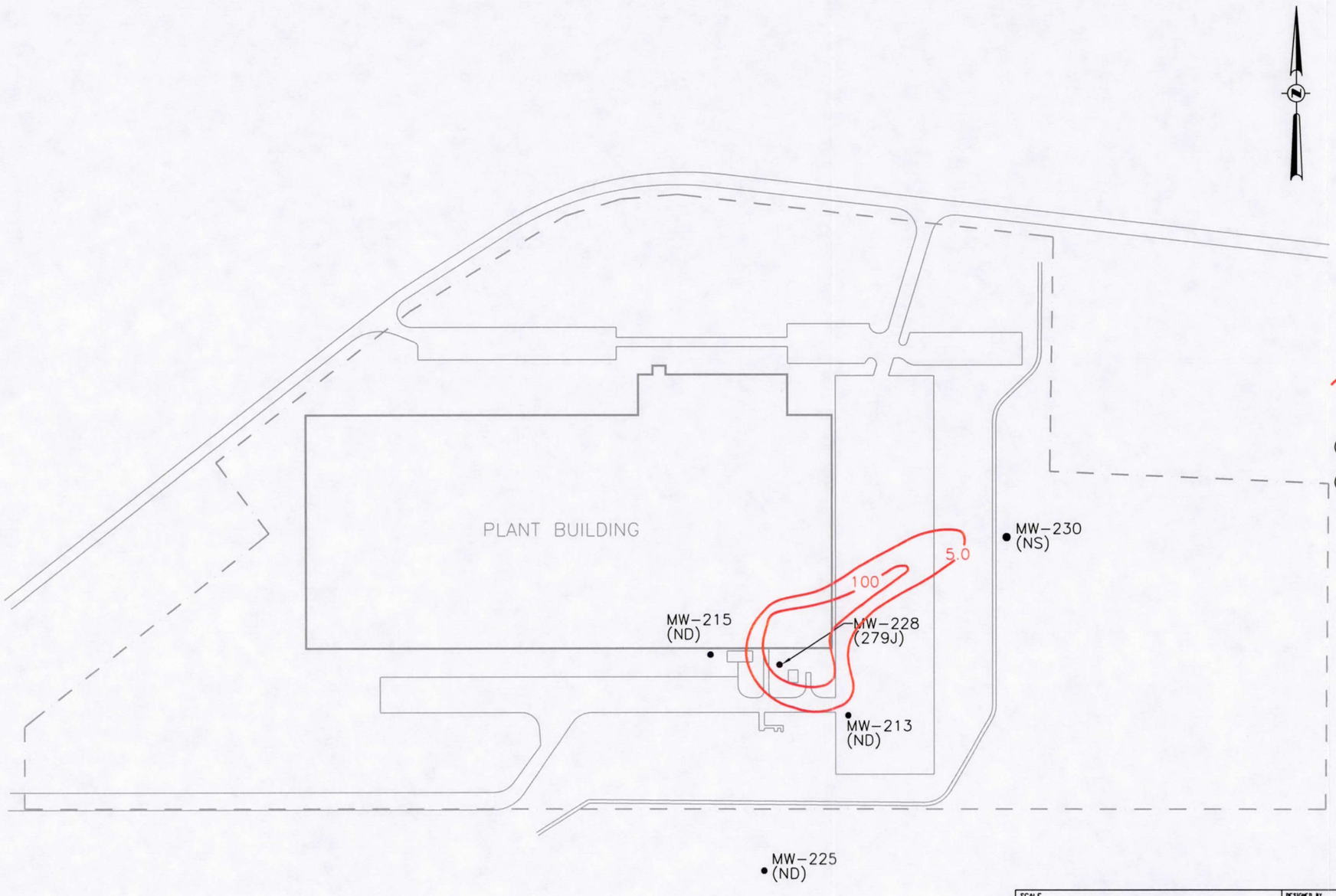

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates Estimated Quantitation Limit 5.0 ug/L
- (ND) Not Detected
- (NS) Not Sampled Due to Insufficient Groundwater Volume

200 0 200

SCALE IN FEET

SCALE: AS SHOWN	DESIGNED BY: TSH	DATE: 22AUG02	DRAWING TITLE: Figure 3-13. Approximate Distribution of 1,2-Dichloroethane in Unit A Hamilton Beach & Proctor Silex, Inc.
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS RESEARCH TRIANGLE PARK, NORTH CAROLINA 27709	DRAWN BY: TSH	DATE: 22AUG02	
	CHECKED BY: JN	DATE: 22AUG02	CONTRACT NO.: 80396916.01 / DRAWING NO.: 3-13-DCA / REV.: 0
	APPROVED BY: JN	DATE: 23AUG02	

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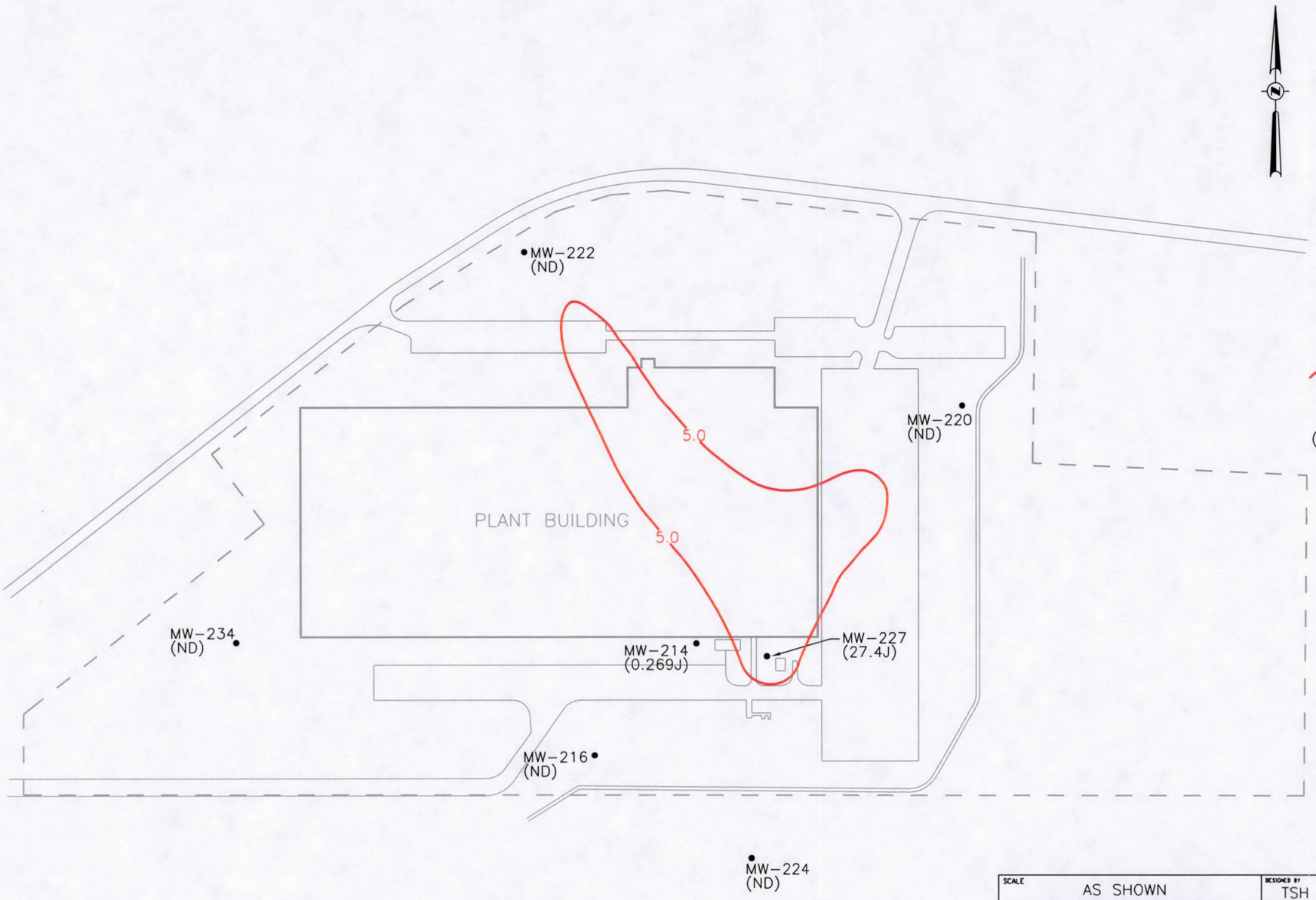

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates Estimated Quantitation Limit 5.0 ug/L
- (ND) Not Detected

200 0 200

SCALE IN FEET

SCALE	DESIGNED BY	DATE	DRAWING TITLE
AS SHOWN	TSH	22AUG02	Figure 3-14. Approximate Distribution of 1,2-Dichloroethane in Unit B Hamilton Beach & Proctor Silex, Inc.
	DRAWN BY TSH	DATE 22AUG02	
	CHECKED BY JN	DATE 22AUG02	
	APPROVED BY JN	DATE 23AUG02	

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CONTRACT NO.	DRAWING NO.	REV.
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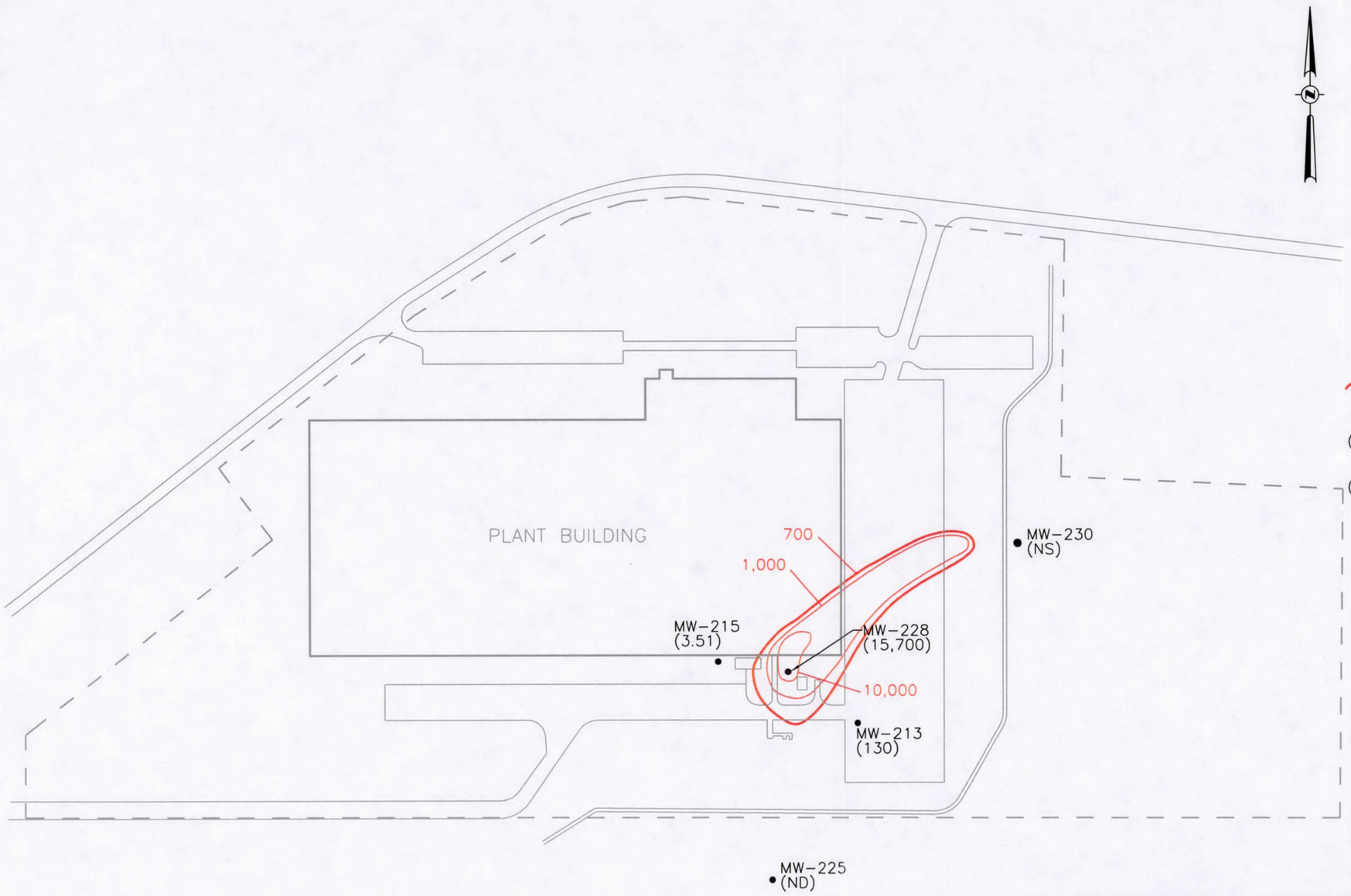

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates 2L Standard of 700 ug/L
- (ND) Not Detected
- (NS) Not Sampled Due to Insufficient Groundwater Volume

200 0 200

SCALE IN FEET

SCALE	DESIGNED BY	DATE	DRAWING TITLE
AS SHOWN	TSH	22AUG02	Figure 3-15. Approximate Distribution of 1,1-Dichloroethane in Unit A Hamilton Beach & Proctor Silex, Inc.
	DRAWN BY TSH	DATE 22AUG02	
	CHECKED BY JN	DATE 22AUG02	CONTRACT NO. 80396916.01 / DRAWING NO. 3-15-DCA / REV. 0
	APPROVED BY JN	DATE 23AUG02	

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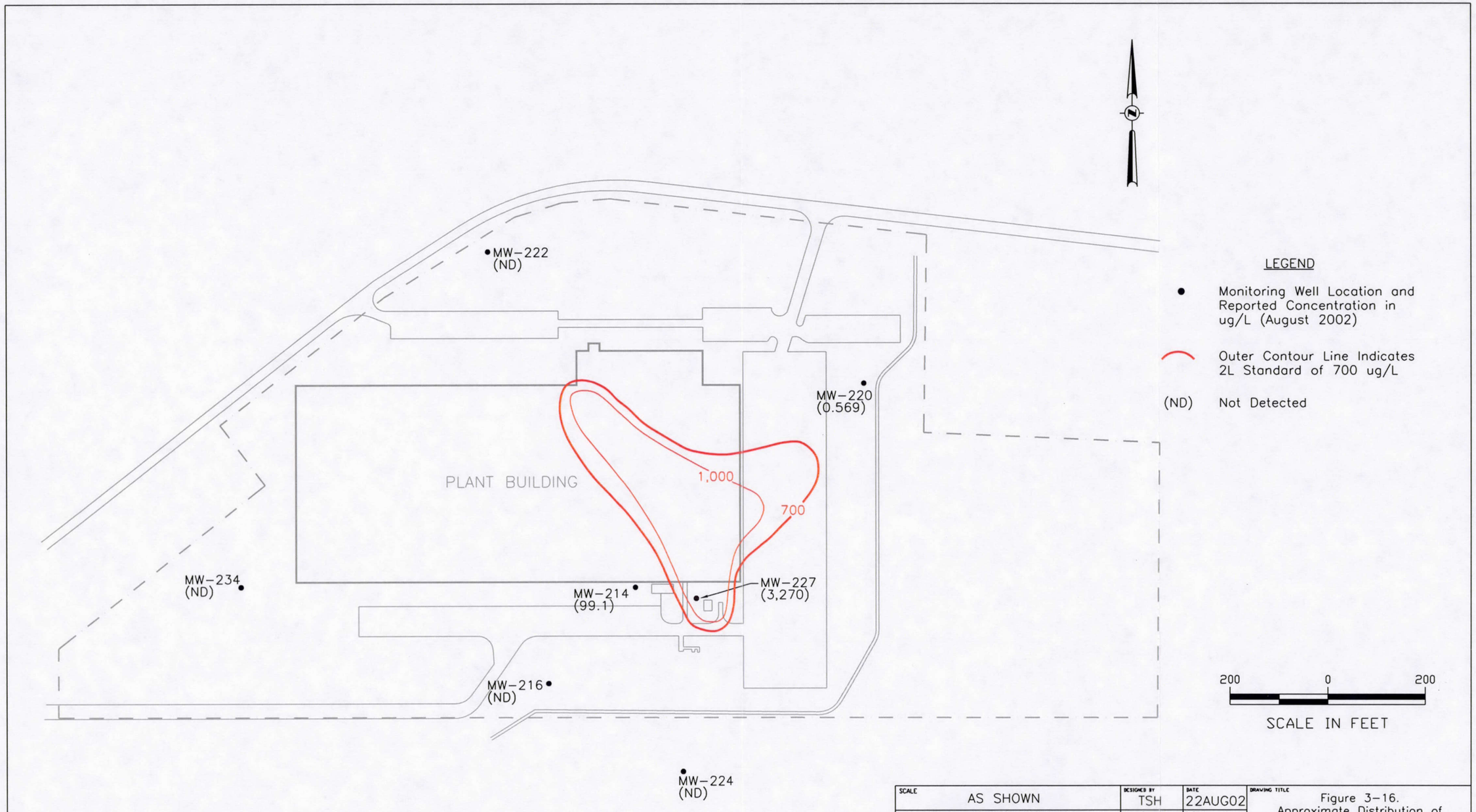

SCALE	DESIGNED BY	DATE	DRAWING TITLE
AS SHOWN	TSH	22AUG02	Figure 3-16. Approximate Distribution of 1,1-Dichloroethane in Unit B Hamilton Beach & Proctor Silex, Inc.
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS RESEARCH TRIANGLE PARK, NORTH CAROLINA 27709	DRAWN BY TSH	DATE 22AUG02	
	CHECKED BY JN	DATE 22AUG02	
	APPROVED BY JN	DATE 23AUG02	

CONTRACT NO.	DRAWING NO.	REV.
80396916.01	3-16-DCA	0

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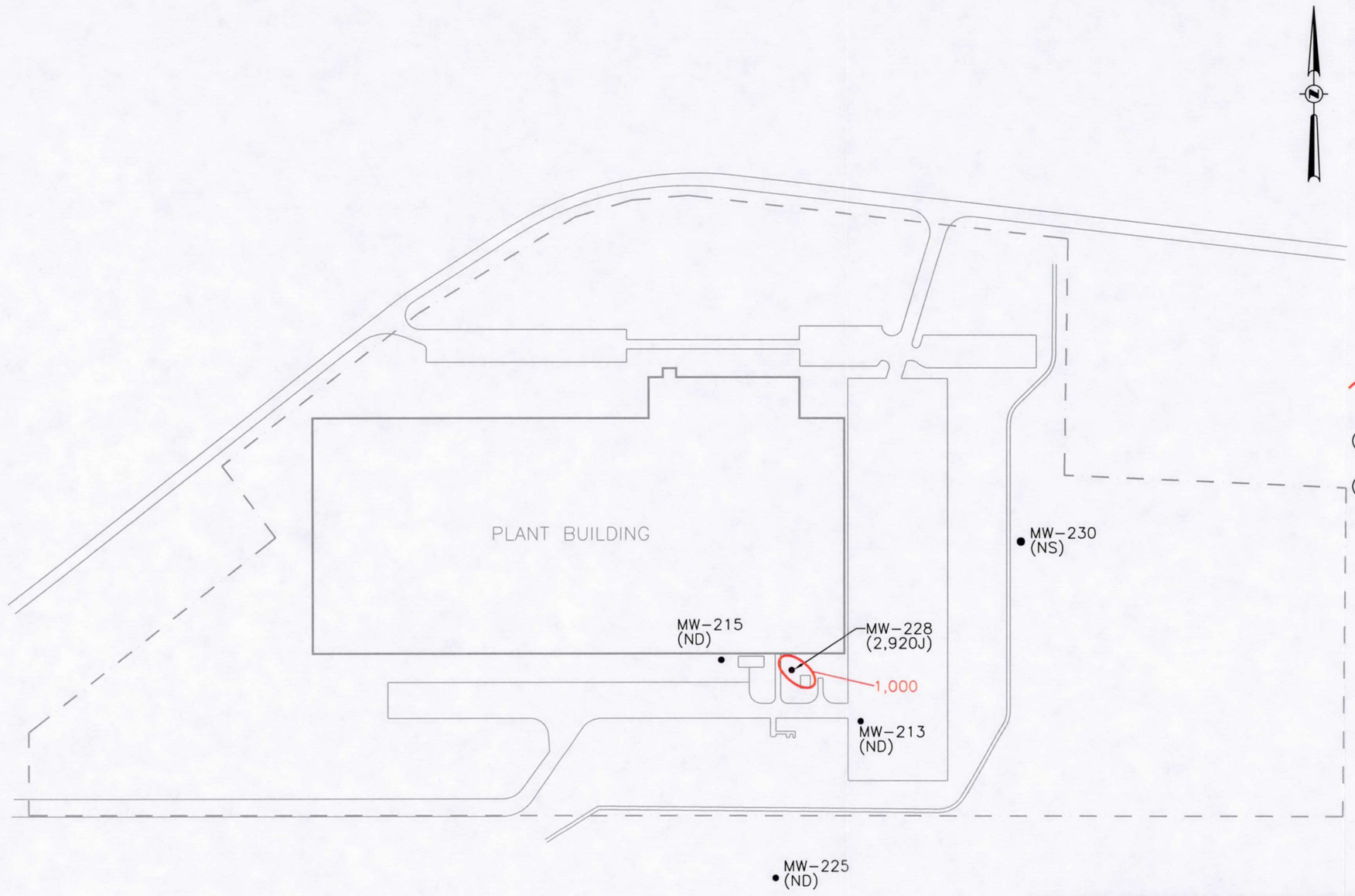

LEGEND

- ● Monitoring Well Location and Reported Concentration in ug/L (August 2002)
- Outer Contour Line Indicates 2L Standard of 1,000 ug/L
- (ND) Not Detected
- (NS) Not Sampled Due to Insufficient Groundwater Volume

200 0 200

SCALE IN FEET

SCALE	DESIGNED BY	DATE	DRAWING TITLE
AS SHOWN	TSH	22AUG02	Figure 3-17. Approximate Distribution of Toluene in Unit A Hamilton Beach & Proctor Silex, Inc.
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS RESEARCH TRIANGLE PARK, NORTH CAROLINA 27709	DRAWN BY TSH	DATE 22AUG02	
	CHECKED BY JN	DATE 22AUG02	CONTRACT NO. 80396916.01 / DRAWING NO. 3-17-TOL / REV. 0
	APPROVED BY JN	DATE 23AUG02	

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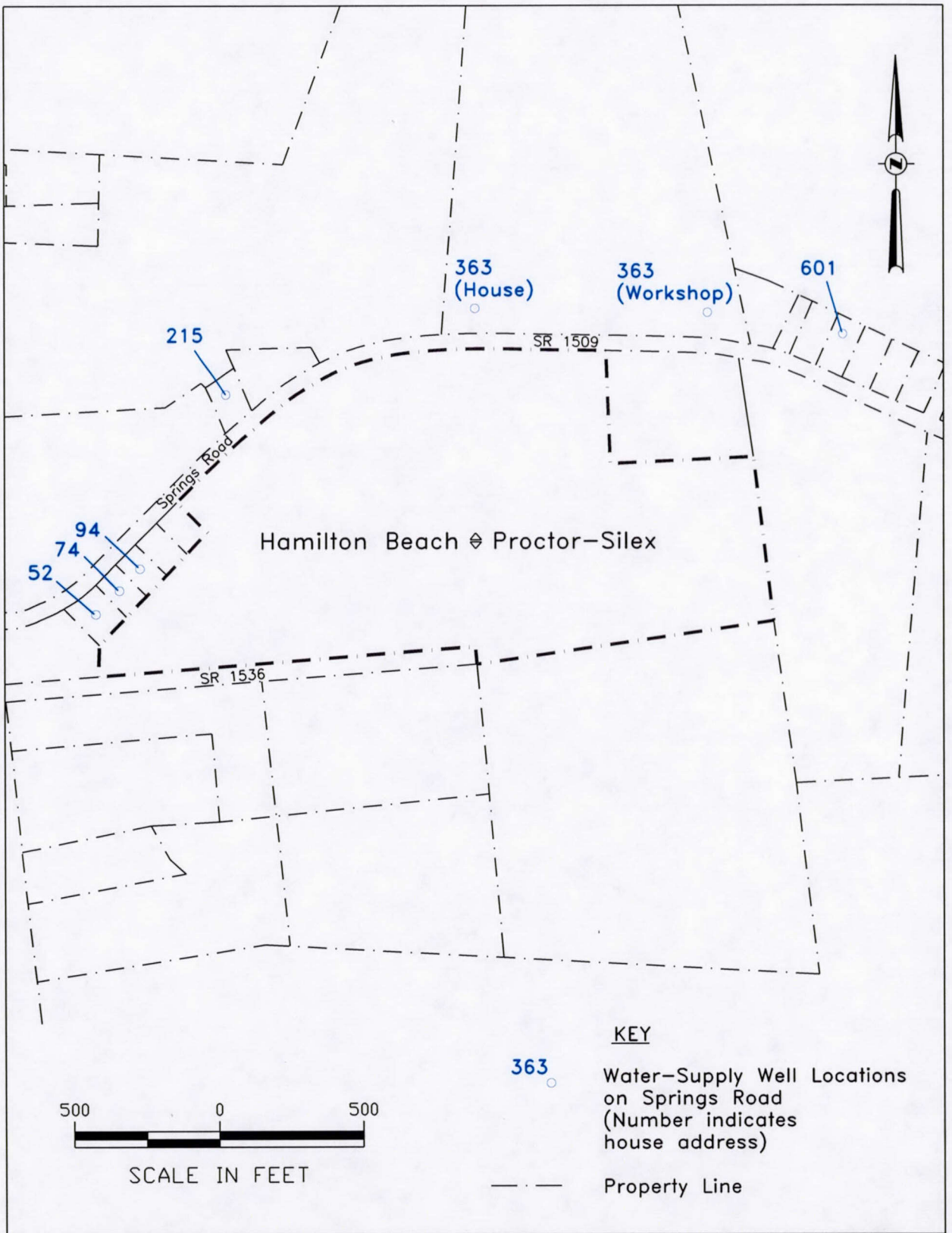

Figure 3-18. Location of Surrounding Water-Supply Wells
Hamilton Beach ⊕ Proctor Silex, Inc.

8-02/WELLS.DWG

TABLES

Table 2-1

Monitoring Well Construction Data for Sampled Wells
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Well No.	Installation Date	Top of Casing Elevation (ft. above MSL)	Total Depth (ft. bgs)	Screen Interval (ft. bgs)	Filter Pack (ft. bgs)	Bentonite Seal (ft. bgs)	Grout Seal (ft. bgs)
MW-213	1/14/98	28.44	7.5	3 - 7.5	2.5 - 7.5	1.5 - 2.5	0 - 1.5
MW-214	1/16/98	27.93	21	14.5 - 21	13.5 - 21	12.5 - 13.5	0 - 12.5
MW-215	1/16/98	28.06	10	8.5 - 10	8 - 10	7 - 8	0 - 7
MW-216	5/5/98	32.82	35	26 - 35	25 - 35	24 - 25	0 - 24
MW-220	5/5/98	31.50	34	25 - 34	24 - 34	23 - 24	0 - 23
MW-222	5/6/98	35.11	40	31 - 40	30 - 40	29 - 30	0 - 29
MW-224	11/13/98	33.43	34	25 - 34	24 - 34	23 - 24	0 - 23
MW-225	11/13/98	33.43	10	4 - 10	3 - 10	2 - 3	0 - 2
MW-226	9/30/98	28.46	75	70 - 75	69 - 75	67 - 69	0 - 67
MW-227	10/1/98	28.47	25.5	20.5 - 25.5	19.5 - 25.5	17.5 - 19.5	0 - 17.5
MW-228	9/23/98	28.71	10	3 - 10	2 - 10	1 - 2	0 - 1
MW-230	10/26/98	33.47	14	8 - 14	7 - 14	5 - 7	0 - 5
MW-234	6/23/99	35.03	26	17 - 26	16 - 26	13 - 16	0 - 13

Monitoring wells 213 through 215 installed by Groundwater Management Associates, Inc.
Monitoring wells 216, 220, and 222 installed by Radian Mobile Field Services.
Monitoring wells 226 through 228 installed by Parratt Wolff, Inc.
Monitoring wells 224, 225, 230, and 234 installed by Probe Technology, Inc.

Table 3-1

Water Level Measurements and Elevations
August 20, 2002
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Well	Measuring Point Elevation (ft above msl))	Depth to Water (ft)	Water Level Elevation (ft above msl)
MW-201S	29.74	8.14	21.60
MW-213	28.44	6.25	22.19
MW-214	27.93	8.00	19.93
MW-215	28.06	7.86	20.20
MW-216	32.82	12.16	20.66
MW-217	32.75	9.87	22.88
MW-220	31.50	14.10	17.40
MW-221	31.39	DRY	DRY
MW-222	35.11	17.00	18.11
MW-223	35.15	11.18	23.97
MW-224	33.43	12.19	21.24
MW-225	33.43	10.93	22.50
MW-226	28.46	20.97	7.49
MW-227	28.47	8.45	20.02
MW-228	28.71	8.33	20.38
MW-230	33.47	15.97	17.50
MW-233	34.55	14.08	20.47
MW-234	35.03	13.86	21.17

msl = mean sea level

Table 3-2

Historical Water Level Elevations at MW-213
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
May 13, 1998	25.54
November 16, 1998	24.21
February 2, 2000	26.41
May 2, 2000	26.33
September 6, 2000	24.78
November 28, 2000	23.83
February 19, 2001	24.48
May 16, 2001	24.20
August 14, 2001	24.53
November 26, 2001	22.12
February 12, 2002	24.37
May 8, 2002	24.29
August 20, 2002	22.19

msl = mean sea level

Table 3-3

Historical Water Level Elevations at MW-214
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
May 13, 1998	24.95
November 16, 1998	22.18
February 2, 2000	25.38
May 2, 2000	25.30
September 6, 2000	24.13
November 28, 2000	22.61
February 19, 2001	23.71
May 16, 2001	23.01
August 14, 2001	23.04
November 26, 2001	20.28
February 12, 2002	23.15
May 8, 2002	23.80
August 20, 2002	19.93

msl = mean sea level

Table 3-4

Historical Water Level Elevations at MW-215
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
May 13, 1998	24.97
November 16, 1998	24.19
February 2, 2000	25.23
May 2, 2000	24.84
September 6, 2000	23.93
November 28, 2000	19.68
February 19, 2001	20.94
May 16, 2001	23.11
August 14, 2001	19.57
November 26, 2001	21.18
February 12, 2002	21.79
May 8, 2002	22.47
August 20, 2002	20.20

msl = mean sea level

Table 3-5

Historical Water Level Elevations at MW-216
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
May 13, 1998	24.39
November 16, 1998	22.37
February 2, 2000	24.84
May 2, 2000	24.83
September 6, 2000	24.12
November 28, 2000	22.81
February 19, 2001	23.61
May 16, 2001	23.20
August 14, 2001	23.42
November 26, 2001	21.06
February 12, 2002	23.72
May 8, 2002	23.62
August 20, 2002	20.66

msl = mean sea level

Table 3-6

Historical Water Level Elevations at MW-220
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
May 13, 1998	25.13
November 16, 1998	20.55
July 1, 1999	21.50
October 20, 1999	25.63
February 2, 2000	25.85
May 2, 2000	25.81
September 6, 2000	22.90
November 28, 2000	21.71
February 19, 2001	23.45
May 16, 2001	21.95
August 14, 2001	21.80
November 26, 2001	18.46
February 12, 2002	22.43
May 8, 2002	22.90
August 20, 2002	17.40

msl = mean sea level

Table 3-7

Historical Water Level Elevations at MW-222
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
May 13, 1998	22.34
November 16, 1998	19.99
July 1, 1999	20.61
October 20, 1999	24.22
February 2, 2000	23.34
May 2, 2000	23.58
September 6, 2000	21.50
November 28, 2000	20.52
February 19, 2001	21.34
May 16, 2001	20.91
August 14, 2001	20.89
November 26, 2001	18.53
February 12, 2002	20.84
May 8, 2002	21.70
August 20, 2002	18.11

msl = mean sea level

Table 3-8

Historical Water Level Elevations at MW-224
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
November 16, 1998	23.64
July 1, 1999	24.39
October 20, 1999	26.88
February 2, 2000	26.73
May 2, 2000	26.48
September 6, 2000	25.99
November 28, 2000	24.36
February 19, 2001	25.23
May 16, 2001	24.23
August 14, 2001	24.01
November 26, 2001	21.59
February 12, 2002	25.63
May 8, 2002	24.77
August 20, 2002	21.24

msl = mean sea level

Table 3-9

Historical Water Level Elevations at MW-225
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
November 16, 1998	24.36
July 1, 1999	24.50
October 20, 1999	27.24
February 2, 2000	26.59
May 2, 2000	26.40
September 6, 2000	27.22
November 28, 2000	24.38
February 19, 2001	25.01
May 16, 2001	24.21
August 14, 2001	24.57
November 26, 2001	22.55
February 12, 2002	26.48
May 8, 2002	24.77
August 20, 2002	22.50

msl = mean sea level

Table 3-10

Historical Water Level Elevations at MW-226
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
November 16, 1998	8.43
July 1, 1999	8.54
October 20, 1999	11.11
February 2, 2000	10.23
May 2, 2000	10.81
September 6, 2000	9.41
November 28, 2000	9.19
February 19, 2001	9.20
May 16, 2001	9.31
August 14, 2001	8.71
November 26, 2001	8.04
February 12, 2002	8.88
May 8, 2002	9.61
August 20, 2002	7.49

msl = mean sea level

Table 3-11

Historical Water Level Elevations at MW-227
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
November 16, 1998	22.38
October 20, 1999	25.82
February 2, 2000	25.88
May 2, 2000	25.83
September 6, 2000	24.45
November 28, 2000	22.86
February 19, 2001	23.84
May 16, 2001	22.67
August 14, 2001	23.24
November 26, 2001	20.56
February 12, 2002	23.36
May 8, 2002	24.02
August 20, 2002	20.02

msl = mean sea level

Table 3-12

Historical Water Level Elevations at MW-228
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
November 16, 1998	23.01
February 2, 2000	24.63
May 2, 2000	26.36
September 6, 2000	25.44
November 28, 2000	23.74
February 19, 2001	24.51
May 16, 2001	24.24
August 14, 2001	24.63
November 26, 2001	20.91
February 12, 2002	24.54
May 8, 2002	25.11
August 20, 2002	20.38

msl = mean sea level

Table 3-13

Historical Water Level Elevations at MW-230
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
November 16, 1998	21.14
July 1, 1999	21.80
October 20, 1999	27.71
February 2, 2000	27.44
May 2, 2000	26.53
September 6, 2000	23.07
November 28, 2000	21.87
February 19, 2001	23.17
May 16, 2001	22.17
August 14, 2001	22.20
November 26, 2001	18.89
February 12, 2002	22.16
May 8, 2002	23.27
August 20, 2002	17.50

msl = mean sea level

Table 3-14

Historical Water Level Elevations at MW-234
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Date	Water Level Elevation (ft. above msl)
July 1, 1999	23.24
October 20, 1999	25.71
February 2, 2000	25.67
May 2, 2000	25.56
September 6, 2000	25.04
November 28, 2000	23.23
February 19, 2001	24.20
May 16, 2001	23.53
August 14, 2001	23.94
November 26, 2001	21.29
February 12, 2002	26.34
May 8, 2002	24.43
August 20, 2002	21.17

msl = mean sea level

Table 3-15

Field Measurements
August 2002
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Well	Date	Time	Volume Purged (Gal)	Purging Criteria	Temperature (°C)	Specific Conductance (µS)	pH
MW-213	8/21/02	08:42	0.6	3 well volumes	28.0	305	4.7
MW-214	8/21/02	09:08	6.25	3 well volumes	23.0	210	5.4
MW-215	8/21/02	08:54	1.0	3 well volumes	25.0	305	5.6
MW-216	8/20/02	15:25	0.7	3 well volumes	27.0	450	6.8
MW-220	8/20/02	14:00	0.5	3 well volumes	25.0	170	6.0
MW-222	8/20/02	16:05	0.7	3 well volumes	25.0	330	6.8
MW-224	8/20/02	14:15	0.5	3 well volumes	30.0	385	7.0
MW-225	8/20/02	14:20	0.03	Dry	31.0	260	4.8
MW-226	8/20/02	12:00	9.0	Stabilized parameters	22.0	450	7.2
		12:10	18.0		21.0	440	7.5
		12:16	27.0		21.0	440	7.5
		12:21	32.0		21.0	440	7.5
MW-227	8/21/02	10:05	8.0	3 well volumes	22.5	570	6.4
MW-228	8/21/02	09:45	0.75	3 well volumes	25.0	300	1.9
MW-230	8/20/02	14:40	0.1	Dry	32.7	NM	3.7
MW-234	8/20/02	14:55	0.3	3 well volumes	22.0	151	5.5

NM = not measured due to insufficient water volume

Table 3-16

Summary of Qualified Groundwater Analytical Results: August 2002

Volatile Organic Compounds by Method 8260B

Hamilton Beach <> Proctor -Silex, Washington, North Carolina

Analyte (ug/L)	Sample ID: / Date of Sampling:	NC 2L	Units	MW-213	MW-214	MW-215	MW-216	MW-220	MW-222
	Date of Sampling:			8/21/2002	8/21/2002	8/21/2002	8/20/2002	8/20/2002	8/20/2002
Acetone		700 (NC)	ug/l	< 12 .6	< 2 .51	< 1 .26	< 1 .26	< 1 .26	< 1 .26
Benzene		1 (NC)	ug/l	< 0 .465	< 0 .093 uj	0 .13 j	< 0 .0465	< 0 .0465	< 0 .0465
n-Butylbenzene		70 (N1)	ug/l	< 0 .888	< 0 .178	< 0 .0888	< 0 .0888	< 0 .0888	< 0 .0888
sec-Butylbenzene		70 (N1)	ug/l	< 1 .04	< 0 .208	< 0 .104	< 0 .104	< 0 .104	< 0 .104
Carbon tetrachloride		0.3 (NC)	ug/l	< 0 .553	< 0 .111	< 0 .0553	< 0 .0553	< 0 .0553	< 0 .0553
Chloroethane		2800 (N1)	ug/l	< 0 .755	< 0 .151 uj	< 0 .0755	< 0 .0755	< 0 .0755	< 0 .0755
Chloroform		0.19 (NC)	ug/l	< 0 .338	< 0 .0676	< 0 .0338	< 0 .0338	< 0 .0338	< 0 .0338
1,1-Dichloroethane		700 (NC)	ug/l	130	99 .1	3 .51	< 0 .0445	0 .569	1 .88
1,2-Dichloroethane		0.38 (NC)	ug/l	< 0 .632	0 .269 j	< 0 .0632	< 0 .0632	< 0 .0632	< 0 .0632
1,1-Dichloroethene		7 (NC)	ug/l	382	11 .6	2 .97	< 0 .0492	< 0 .0492	0 .855
cis-1,2-Dichloroethene		70 (NC)	ug/l	32 .2	7 .73	0 .131 j	< 0 .0353	< 0 .0353	0 .545
trans-1,2-Dichloroethene		70 (NC)	ug/l	< 0 .43	0 .333 j	< 0 .043	< 0 .043	< 0 .043	< 0 .043
Ethyl benzene		29 (NC)	ug/l	< 0 .469	< 0 .0938	< 0 .0469	< 0 .0469	< 0 .0469	< 0 .0469
Isopropyl benzene		70 (N1)	ug/l	< 0 .769	< 0 .154	< 0 .0769	< 0 .0769	< 0 .0769	< 0 .0769
Methyl ethyl ketone		170 (NC)	ug/l	< 28 .3	< 5 .66	< 2 .83	< 2 .83	< 2 .83	< 2 .83
Methyl tert-butyl ether		200 (NC)	ug/l	< 0 .619	< 0 .124	< 0 .0619	< 0 .0619	< 0 .0619	< 0 .0619
Naphthalene (VOA)		21 (NC)	ug/l	< 0 .708 uj	< 0 .142 uj	< 0 .0708 uj	< 0 .0708	< 0 .0708	< 0 .0708
n-Propylbenzene		70 (N1)	ug/l	< 0 .698	< 0 .14	< 0 .0698	< 0 .0698	< 0 .0698	< 0 .0698
Styrene		100 (NC)	ug/l	< 0 .295	< 0 .059	< 0 .0295	< 0 .0295	< 0 .0295	< 0 .0295
Tetrachloroethene		0.7 (NC)	ug/l	32 .4	< 0 .206	< 0 .103	< 0 .103	< 0 .103	< 0 .103
Toluene		1000 (NC)	ug/l	< 0 .236	< 0 .0472	< 0 .0236	< 0 .0236	< 0 .0236	< 0 .0236
1,1,1-Trichloroethane		200 (NC)	ug/l	< 0 .511	< 0 .102	0 .406 j	< 0 .0511	< 0 .0511	< 0 .0511
1,1,2-Trichloroethane		0.6 (N2)	ug/l	< 0 .489	< 0 .0978	< 0 .0489	< 0 .0489	< 0 .0489	< 0 .0489
Trichloroethene		2.8 (NC)	ug/l	384	< 0 .102 u	< 0 .476 u	< 0 .0506	< 0 .0506	< 0 .0506
1,2,4-Trimethylbenzene		350 (N1)	ug/l	< 0 .744	< 0 .149	< 0 .0744	< 0 .0744	< 0 .0744	< 0 .0744
1,3,5-Trimethylbenzene		350 (N1)	ug/l	< 0 .616	< 0 .123	< 0 .0616	< 0 .0616	< 0 .0616	< 0 .0616
Vinyl chloride		0.015 (NC)	ug/l	15 .3	6 .9	< 0 .0501	< 0 .0501	< 0 .0501	< 0 .0501
o-Xylene		530 (NC)	ug/l	< 0 .409	< 0 .0818	< 0 .0409	< 0 .0409	< 0 .0409	< 0 .0409
m&p-Xylenes		530 (NC)	ug/l	< 0 .869	< 0 .174	< 0 .0869	< 0 .0869	< 0 .0869	< 0 .0869

Table 3-16 (Continued)
Summary of Qualified Groundwater Analytical Results: August 2002
Volatile Organic Compounds by Method 8260B
Hamilton Beach <> Proctor -Silex, Washington, North Carolina

Analyte (ug/L)	Sample ID:		MW-224	MW-225	MW-226	MW-227	MW-228	MW-234
	Date of Sampling:		8/20/2002	8/20/2002	8/20/2002	8/21/2002	8/21/2002	8/20/2002
	NC 2L	Units						
Acetone	700 (NC)	ug/l	< 1 .26	< 1 .26	< 1 .26	53 .7 j	652 j	< 1 .26
Benzene	1 (NC)	ug/l	< 0 .0465	< 0 .0465	< 0 .0465	1 .18 j	61 .2 j	< 0 .0465
n-Butylbenzene	70 (N1)	ug/l	< 0 .0888	< 0 .0888	< 0 .0888	< 0 .888	36 .2 j	< 0 .0888
sec-Butylbenzene	70 (N1)	ug/l	< 0 .104	< 0 .104	< 0 .104	< 1 .04	12 .3 j	< 0 .104
Carbon tetrachloride	0.3 (NC)	ug/l	< 0 .0553	< 0 .0553	< 0 .0553	< 0 .553	106 j	< 0 .0553
Chloroethane	2800 (N1)	ug/l	< 0 .0755	< 0 .0755	< 0 .0755	350	67 .2 j	< 0 .0755
Chloroform	0.19 (NC)	ug/l	< 0 .0338	< 0 .0338	< 0 .0338	2 .29 j	21 .4 j	< 0 .0338
1,1-Dichloroethane	700 (NC)	ug/l	< 0 .0445	< 0 .0445	< 0 .0445	3270	15700	< 0 .0445
1,2-Dichloroethane	0.38 (NC)	ug/l	< 0 .0632	< 0 .0632	< 0 .0632	27 .4 j	279 j	< 0 .0632
1,1-Dichloroethene	7 (NC)	ug/l	< 0 .0492	< 0 .0492	0 .0631 j	1850	92600	< 0 .0492
cis-1,2-Dichloroethene	70 (NC)	ug/l	< 0 .0353	< 0 .0353	< 0 .0353	924	4500 j	< 0 .0353
trans-1,2-Dichloroethene	70 (NC)	ug/l	< 0 .043	< 0 .043	< 0 .043	11 .4	55 .1 j	< 0 .043
Ethyl benzene	29 (NC)	ug/l	< 0 .0469	< 0 .0469	< 0 .0469	1 .27 j	1180 j	< 0 .0469
Isopropyl benzene	70 (N1)	ug/l	< 0 .0769	< 0 .0769	< 0 .0769	< 0 .769	74 j	< 0 .0769
Methyl ethyl ketone	170 (NC)	ug/l	< 2 .83	< 2 .83	< 2 .83	< 28 .3	1850 j	< 2 .83
Methyl tert-butyl ether	200 (NC)	ug/l	< 0 .0619	< 0 .0619	< 0 .0619	< 0 .619	17 .5 j	< 0 .0619
Naphthalene (VOA)	21 (NC)	ug/l	< 0 .0708	< 0 .0708	< 0 .0708	< 0 .708 uj	944 j	< 0 .0708
n-Propylbenzene	70 (N1)	ug/l	< 0 .0698	< 0 .0698	< 0 .0698	< 0 .698	432 j	< 0 .0698
Styrene	100 (NC)	ug/l	< 0 .0295	< 0 .0295	< 0 .0295	< 0 .295	15 .2 j	< 0 .0295
Tetrachloroethene	0.7 (NC)	ug/l	< 0 .103	< 0 .103	< 0 .103	< 1 .03	97 .1 j	< 0 .103
Toluene	1000 (NC)	ug/l	< 0 .0236	< 0 .0236	< 0 .0236	40 .3	2920 j	< 0 .0236
1,1,1-Trichloroethane	200 (NC)	ug/l	< 0 .0511	< 0 .0511	< 0 .0511	6160	80600	< 0 .0511
1,1,2-Trichloroethane	0.6 (N2)	ug/l	< 0 .0489	< 0 .0489	< 0 .0489	4 .76 j	112 j	< 0 .0489
Trichloroethene	2.8 (NC)	ug/l	< 0 .0506	< 0 .0506	< 0 .0506	76 .3	19000	< 0 .0506
1,2,4-Trimethylbenzene	350 (N1)	ug/l	< 0 .0744	< 0 .0744	< 0 .0744	< 0 .744	2400 j	< 0 .0744
1,3,5-Trimethylbenzene	350 (N1)	ug/l	< 0 .0616	< 0 .0616	< 0 .0616	< 0 .616	622 j	< 0 .0616
Vinyl chloride	0.015 (NC)	ug/l	< 0 .0501	< 0 .0501	< 0 .0501	16 .2	363 j	< 0 .0501
o-Xylene	530 (NC)	ug/l	< 0 .0409	< 0 .0409	< 0 .0409	3 .26 j	2600 j	< 0 .0409
m&p-Xylenes	530 (NC)	ug/l	< 0 .0869	< 0 .0869	< 0 .0869	2 .84 j	3090 j	< 0 .0869

Table 3-16 (Continued)
Summary of Qualified Groundwater Analytical Results: August 2002
Volatile Organic Compounds by Method 8260B
Hamilton Beach <> Proctor -Silex, Washington, North Carolina

	Sample ID:		MW-224	MW-225	MW-226	MW-227	MW-228	MW-234
	Date of Sampling:		8/20/2002	8/20/2002	8/20/2002	8/21/2002	8/21/2002	8/20/2002
Analyte (ug/L)	NC 2L	Units						

Standards Reference

N1 - NC Interim 2L Stds N2 - NC Recommended 2L Stds NC - NC 2L GW Quality Stds

Analytic Flags

j - Estimated value u - Not present > assoc level; blk cont uj - Not detected and DL is estimated

< Not detected at the specified detection limit

Target analytes not listed were not detected. A bolded border indicates that the concentration is greater than the NC 2L standard.

Table 3-17

Historical Analytical Results for MW-213
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	November 1998	February 2000	May 2000	September 2000	February 2001	August 2001	August 2002
Benzene	1	0.724	ND (0.984)	0.495 J	ND (0.492)	0.465 J	ND (0.320)	ND (0.465)
n-Butylbenzene	70	0.240	ND (1.28)	0.184 J	ND (0.642)	ND (0.510)	ND (0.510)	ND (0.888)
sec-Butylbenzene	70	0.315	ND (1.49)	0.268 J	ND (0.745)	ND (0.525)	ND (0.525)	ND (1.04)
Chloroform	0.19	0.793	ND (1.34)	0.577	ND (0.670)	ND (0.448)	ND (0.448)	ND (0.338)
1,2-Dichlorobenzene	620	0.642	ND (1.84)	0.349 J	ND (0.920)	ND (0.482)	ND (0.482)	ND (0.596)
1,1-Dichloroethane	700	351	245	178	156	173	128	130
1,2-Dichloroethane	0.38	7.02	6.12 J	4.49	4.05	3.68	3.09	ND (0.632)
1,1-Dichloroethene	7	867	492	401	391	433	405	382
cis-1,2-Dichloroethene	70	39.3	40.8	40.6	45.1	37.1	37.4	32.2
trans-1,2-Dichloroethene	70	2.22	ND (1.63)	1.41	1.33 J	0.937 J	1.30 J	ND (0.43)
Ethylbenzene	29	2.03	ND (1.10)	0.727	0.292 J	0.170J	ND (0.680)	ND (0.496)
Isopropylbenzene	70	0.618	ND (0.948)	0.400 J	ND (0.474)	ND (0.466)	ND (0.466)	ND (0.769)
p-Isopropyltoluene	—	ND (0.106)	ND (904)	0.182 J	ND (0.452)	ND (0.575)	ND (0.575)	ND (0.899)
Napthalene	21	15.7 J	ND (2.12)	16.7	ND (1.06)	7.69 J	8.56 J	ND (0.708) UJ
Tetrachloroethene	0.7	61.3	44.4	34.4	33.1	28.8	23.9 J	32.4
Tetrahydrofuran	—	7.63 J	ND (8.4)	ND (0.402)	ND (4.02)	ND (4.50)	ND (4.50)	ND (12.8)
Toluene	1000	1.48	ND (1.36)	0.335 J	ND (0.680)	ND (0.318)	ND (0.318)	ND (0.236)
1,1,1-Trichloroethane	200	1.09	ND (0.662)	0.928	ND (0.331)	ND (0.845)	4.29	ND (0.511)
1,1,2-Trichloroethane	—	6.03	2.16 J	3.17	2.23 J	2.68	1.92 J	ND (0.489)
Trichloroethene	2.8	515	446	479	510	426	467	384
Trichlorofluoromethane	2100	0.575	ND (4.16)	1.26	ND (2.08)	ND (0.530)	ND (0.530)	ND (0.495)
1,2,4-Trimethylbenzene	350	ND (0.0952)	ND (1.50)	0.509 J	ND (0.749)	ND (0.620)	ND (0.620)	ND (0.744)
1,3,5-Trimethylbenzene	350	ND (0.0800)	ND (0.872)	0.248 J	ND (0.436)	ND (0.452)	ND (0.452)	ND (0.616)
Vinyl chloride	0.015	38.7	29.3	16.0	17.8	19.2	17.4	15.3
m&p-Xylene	530	1.57	ND (2.74)	0.935 J	ND (1.37)	0.363 U	ND (0.835)	ND (0.869)
o-Xylene	530	3.43	ND (1.43)	1.59	1.66 J	0.815 J	0.715 J	ND (0.409)

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).

Table 3-18

Historical Analytical Results for MW-214
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	November 1998	February 2000	May 2000	September 2000	February 2001	August 2001	August 2002
Benzene	1	0.172 J	0.315 J	0.304 J	0.280 J	0.396 J	0.395 J	ND (0.0930) UJ
Chloroethane	2800	0.485 J	0.904	0.705	0.649 J	ND (0.462)	ND (0.185) UJ	ND (0.151) UJ
1,1-Dichloroethane	700	108	179	173	159	162	143	99.1
1,2-Dichloroethane	0.38	0.303 J	0.633	0.607	0.576 J	ND (0.510)	ND (0.204) UJ	0.269
1,1-Dichloroethene	7	8.16	13.8	15.4	13.7	16.8	16.7	11.6
cis-1,2-Dichloroethene	70	6.86	11.7	12.0	11.6	12.9	11.7	7.73
trans-1,2-Dichloroethene	70	0.478	0.701	0.794	0.683 J	0.708 J	0.578 J	0.333
p-Isopropyltoluene	—	0.181 J	ND (0.0452)	ND (0.0452)	ND (0.0904)	ND (0.575)	ND (0.230)	ND (0.180)
Trichloroethene	2.8	ND (0.587) U	0.289 J	0.494 J	ND (0.489) U	ND (0.685)	0.357 J	ND (0.102) U
Vinyl chloride	0.015	8.84	11.5	9.73	9.35	11.8	11.6	6.90

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
U = Not present above the associated level; blank contamination is present.

Table 3-19

Historical Analytical Results for MW-215
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	November 1998	February 2000	May 2000	September 2000	February 2001	August 2001	August 2002
Benzene	1	0.0963 J	0.114 J	ND (0.0492)	ND (0.0492)	ND (0.0641)	0.142 J	0.13 J
1,1-Dichloroethane	700	4.30	4.07	3.43	3.16	3.55	5.72	3.51
1,1-Dichloroethene	7	3.85	3.02	1.93	1.75	2.38	3.48	2.97
cis-1,2-Dichloroethene	70	ND (0.104) U	0.0401 J	0.0409 J	0.0496 J	ND (0.112)	0.0775 J	0.131 J
Ethylbenzene	29	0.0601 J	ND (0.0552)	ND (0.0552)	ND (0.0552)	ND (0.136)	ND (0.136)	ND (0.0469)
Methyl t-butyl ether	200	1.22	ND (0.0469)	1.10	0.937 J	0.427 J	ND (0.116)	ND (0.0619)
Tetrahydrofuran	—	58.6	19.1	15.0	12.2	6.41	ND (0.900)	ND (1.28)
Toluene	1,000	ND (0.141)	ND (0.0680)	ND (0.0680)	ND (0.0680)	ND (0.0637)	0.228 J	ND (0.0236)
1,1,1-Trichloroethane	200	ND (0.0965)	ND (0.0331)	ND (0.0331)	ND (0.0331)	ND (0.169)	2.26	0.406 J
Trichloroethene	2.8	ND (0.322) U	0.138 J	0.124J	ND (0.116) U	ND (0.137)	0.242 J	ND (0.476) U
Vinyl chloride	0.015	0.381 J	ND (0.0574)	ND (0.0574)	ND (0.0574)	ND (0.114)	ND (0.114)	ND (0.0501)
m&p-Xylene	530	0.0885 J	ND (0.137)	ND (0.137)	ND (0.137)	ND (0.167)	ND (0.167)	ND (0.0869)

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
U = Not present above the associated level; blank contamination is present.

Table 3-20

Historical Analytical Results for MW-216
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	May 1998	November 1998	February 2000	May 2000	September 2000	February 2001	August 2001
Toluene	1000	0.171	ND (0.0522) UJ	ND (0.0680)	ND (0.0680)	ND (0.0680)	ND (0.0637)	ND (0.0637)

Analyte	Groundwater Standard	August 2002
Toluene	1000	ND (0.0236)

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
ND = Not detected at (detection limit).
UJ = Not detected and the detection limit is estimated.

Table 3-21

Historical Analytical Results for MW-220
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	May 1998	November 1998	July 1999	October 1999	February 2000	May 2000	September 2000
Carbon disulfide	700	ND (0.0547)	ND (0.0547)	0.426 J	0.162	ND (0.0484) UJ	ND (0.0484)	ND (0.0484) UJ
1,1-Dichloroethane	700	ND (0.0576)	ND (0.0576)	ND (0.0736)	ND (0.0588)	ND (0.0487)	ND (0.0487)	ND (0.0487)
Methyl t-butyl ether	200	ND (0.0365)	ND (0.0365) UJ	ND (0.0334)	ND (0.0512)	ND (0.0469)	0.441 J	ND (0.0469)

Analyte	Groundwater Standard	November 2000	February 2001	May 2001	August 2001	November 2001	February 2002	May 2002
Carbon disulfide	700	ND (0.0684)	ND (0.0684) UJ	ND (0.0684)	ND (0.0684) UJ	ND (0.0415)	ND (0.0415)	ND (0.0415)
1,1-Dichloroethane	700	0.426 J	0.456 J	ND (0.124)	0.530	0.550	0.607	0.917
Methyl t-butyl ether	200	ND (0.116)	ND (0.116)	ND (0.116)	ND (0.116)	ND (0.0619)	ND (0.0619)	ND (0.0619)

Analyte	Groundwater Standard	August 2002
Carbon disulfide	700	ND (0.0684)
1,1-Dichloroethane	700	0.569
Methyl t-butyl ether	200	ND (0.116)

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
UJ = Not detected and the detection limit is estimated.

Table 3-22

Historical Analytical Results for MW-222
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	May 1998	November 1998	July 1999	October 1999	February 2000	May 2000	September 2000
Carbon disulfide	700	ND (0.0547)	ND (0.0547)	0.388 J	0.0944	ND (0.0484) UJ	ND (0.0484)	ND (0.0484) UJ
1,1-Dichloroethane	700	ND (0.0576)	ND (0.0576)	ND (0.0736)	ND (0.0588)	ND (0.0487)	0.338 J	0.328 J
1,1-Dichloroethene	7	0.0908 J	ND (0.0715)	ND (0.102)	ND (0.0819)	ND (0.0697)	ND (0.279) U	0.0766 J
cis-1,2-Dichloroethene	70	ND (0.0383)	ND (0.223) U	ND (0.0595)	ND (0.0407)	ND (0.0603)	ND (0.0603)	0.139 J
Toluene	1,000	0.156 J	ND (0.0522)	ND (0.0766)	ND (0.0645)	ND (0.0680)	ND (0.0680)	ND (0.0680)

Analyte	Groundwater Standard	November 2000	February 2001	May 2001	August 2001	November 2001	February 2002	May 2002
Carbon disulfide	700	ND (0.0684)	ND (0.0684) UJ	ND (0.0684)	ND (0.0684) UJ	ND (0.0415)	ND (0.0415)	ND (0.0415)
1,1-Dichloroethane	700	ND (0.124)	0.589	0.536	ND (0.124)	0.375 J	ND (0.0445)	ND (0.0445)
1,1-Dichloroethene	7	0.0668 J	0.102 J	0.0793 J	ND (0.122)	0.130 J	ND (0.0492)	0.139 J
cis-1,2-Dichloroethene	70	0.124 J	0.222 J	0.260 J	0.157 J	0.126 J	ND (0.0353)	ND (0.0353)
Toluene	1,000	ND (0.137)	ND (0.0637)	ND (0.0637)	ND (0.0637)	ND (0.0236)	ND (0.0236)	ND (0.0236)

Analyte	Groundwater Standard	August 2002
Carbon disulfide	700	ND (0.0684)
1,1-Dichloroethane	700	1.88
1,1-Dichloroethene	7	0.855
cis-1,2-Dichloroethene	70	0.545
Toluene	1,000	ND (0.0236)

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
UJ = Not detected and the detection limit is estimated.
U = Not present above the associated level, blank contamination present.

Table 3-23

Historical Analytical Results for MW-224
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	November 1998	July 1999	October 1999	February 2000	May 2000	September 2000	November 2000
Carbon disulfide	700	ND (0.0547)	2.22	2.72	ND (1.05) UJ	ND (0.334) U	0.350 J	0.697 J
Toluene	1,000	ND (0.0522)	ND (0.0766)	ND (0.0645)	ND (0.0680)	0.0542 J	ND (0.0680)	ND (0.0637)

Analyte	Groundwater Standard	February 2001	May 2001	August 2001	November 2001	February 2002	May 2002	August 2002
Carbon disulfide	700	ND (0.571) UJ	0.715 J	0.515 J	0.531 J	0.640 J	0.740 J	ND (0.0415)
Toluene	1,000	ND (0.0637)	ND (0.0637)	ND (0.0637)	ND (0.0236)	ND (0.0236)	ND (0.0236)	ND (0.0236)

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
UJ = Not detected and the detection limit is estimated

Table 3-24

Historical Analytical Results for MW-225
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	November 1998	July 1999	October 1999	February 2000	May 2000	September 2000	November 2000
Carbon disulfide	700	ND (0.0547)	ND (0.864)	0.0691	ND (0.0484) UJ	ND (0.0484)	ND (0.0484) UJ	ND (0.0684)
Chloroform	0.19	ND (0.0480)	ND (0.0424)	0.171	ND (0.0670)	ND (0.0670)	ND (0.0670)	ND (0.0896)

Analyte	Groundwater Standard	February 2001	May 2001	August 2001	November 2001	February 2002	May 2002	August 2002
Carbon disulfide	700	ND (0.511) UJ	ND (0.0684)	ND (0.0684)	ND (0.0415)	ND (0.0415)	ND (0.0415)	ND (0.0415)
Chloroform	0.19	ND (0.0896)	ND (0.0896)	ND (0.0896)	ND (0.0338)	ND (0.0338)	ND (0.0338)	ND (0.0338)

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
ND = Not detected at (detection limit).
UJ = Not detected and the detection limit is estimated.

Table 3-25

Historical Analytical Results for MW-226
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	November 1998	July 1999	October 1999	February 2000	May 2000	September 2000	November 2000
Carbon disulfide	700	ND (0.0547)	ND (0.864)	0.0950	ND (0.0484) UJ	ND (0.0484)	0.210 J	ND (0.0684)
1,1-Dichloroethene	7	ND (0.0576)	ND (0.102)	ND (0.0819)	ND (0.0697)	ND (0.115) U	ND (0.0697)	ND (0.122)

Analyte	Groundwater Standard	February 2001	May 2001	August 2001	November 2001	February 2002	May 2002	August 2002
Carbon disulfide	700	ND (0.0684) UJ	ND (0.0684)	ND (0.0684) UJ	ND (0.0415) UJ	ND (0.0415)	ND (0.0415)	ND (0.0415)
1,1-Dichloroethene	7	ND (0.122)	ND (0.122)	ND (0.122)	ND (0.0492)	ND (0.0492)	ND (0.0492)	0.0631 J

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
UJ = Not detected and the detection limit is estimated.

Table 3-26

Historical Analytical Results for MW-227
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	November 1998	February 2000	May 2000	September 2000
Acetone	700	29.9 J	ND (5.72)	19.1 J	ND (14.3) UJ
Benzene	1	0.668 J	ND (0.984)	0.622 J	ND (2.46)
2-Butanone (MEK)	170	42.5 J	ND (3.58)	40.2 J	ND (8.95)
n-Butylbenzene	70	0.437 J	ND (1.28)	ND (0.0642) UJ	ND (3.21)
Carbon disulfide	700	0.573 J	ND (0.968)	ND (0.0484) UJ	ND (2.42) UJ
Carbon tetrachloride	0.3	ND (0.0576) UJ	ND (1.73)	26.2 J	ND (4.34) UJ
Chloroethane	2800	2.14 J	ND (1.51)	14.6 J	26.3
Chloroform	0.19	1.64 J	ND (1.34)	1.17 J	ND (3.35)
1,1-Dichloroethane	700	4,620	844	3,360	1,340
1,2-Dichloroethane	0.38	19.5 J	4.40 J	20.2	ND (2.50)
1,1-Dichloroethene	7	705	108	644	249
cis-1,2-Dichloroethene	70	228	105	381	211
trans-1,2-Dichloroethene	70	3.66 J	ND (1.63)	7.93 J	ND (4.06)
1,1-Dichloropropene	—	ND (0.0444) UJ	ND (0.928)	0.182 J	ND (2.32)
Ethylbenzene	29	3.58 J	ND (9.38)	0.454 J	ND (2.76)
Isopropylbenzene	70	0.392 J	ND (0.948)	ND (0.0474) UJ	ND (2.37)
p-Isopropyltoluene	—	0.194 J	ND (0.904)	ND (0.0452) UJ	ND (2.26)
Methyl t-butyl ether	200	ND (0.0365) UJ	ND (0.938)	0.322 J	ND (2.34)
Methylene chloride	5	ND (1.13) UJ	ND (1.59)	0.982 U	ND (3.98) U
Naphthalene	21	3.73 J	ND (2.12)	ND (0.982) UJ	ND (5.30)
n-Propylbenzene	70	2.25 J	ND (1.77)	ND (0.0886) UJ	ND (4.43)
1,1,2,2-Tetrachloroethane	0.17	ND (0.102) UJ	ND (1.58)	1.48 J	ND (4.74)
Tetrachloroethene	0.7	1.41 J	ND (1.14)	ND (0.0568) UJ	ND (2.84) UJ
Toluene	1000	29.6 J	3.56 J	13.8J	8.92 J
1,1,1-Trichloroethane	200	3,200	310	2,440 J	1,220
1,1,2-Trichloroethane	—	3.20 J	ND (1.90)	2.95 J	ND (4.76)
Trichloroethene	2.8	810	12.9	48.9 J	ND (36.9) U
1,2,4-Trimethylbenzene	350	10.8 J	ND (1.50)	0.720 J	ND (3.74)
1,3,5-Trimethylbenzene	350	3.37 J	ND (0.872)	0.646 J	ND (2.18)

Table 3-26 (Continued)

Analyte	Groundwater Standard	November 1998	February 2000	May 2000	September 2000
Vinyl chloride	.015	5.70 J	ND (1.15)	5.51 J	ND (115)
m&p-Xylene	530	8.78 J	ND (2.74)	0.956 J	1,520 J
o-Xylene	530	8.91 J	ND (1.43)	0.995 J	1,240

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
U = Not present above the associated level, blank contamination present.
UJ = Not detected and the detection limit is estimated.

Table 3-26 (Continued)

Historical Analytical Results for MW-227
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	February 2001	August 2001	August 2002
Acetone	700	ND (4.38)	34.7 J	53.7 J
Benzene	1	ND (0.0641)	0.978 J	1.18 J
2-Butanone (MEK)	170	25.2	ND (24.0) UJ	ND (28.3)
n-Butylbenzene	70	ND (1.02)	ND (0.334) UJ	ND (0.888)
Carbon disulfide	700	ND (0.684) UJ	ND (0.341) UJ	R
Carbon tetrachloride	0.3	ND (0.652)	ND (0.508) UJ	ND (0.553)
Chloroethane	2800	24.6	63.4 J	350
Chloroform	0.19	ND (0.896)	1.83 J	2.29 J
1,1-Dichloroethane	700	2,300	3,410	3,270
1,2-Dichloroethane	0.38	10.8	25.2 J	27.4 J
1,1-Dichloroethene	7	332	855	1,850
cis-1,2-Dichloroethene	70	240	456 J	924
trans-1,2-Dichloroethene	70	5.48	8.97 J	11.4
1,1-Dichloropropene	—	ND (0.994)	ND (0.385) UJ	ND (0.374)
Ethylbenzene	29	ND (1.36)	0.784 J	1.27 J
Isopropylbenzene	70	ND (0.931)	ND (0.167) UJ	ND (0.769)
p-Isopropyltoluene	—	ND (1.15)	ND (0.394) UJ	ND (0.899)
Methyl t-butyl ether	200	ND (1.16)	ND (0.428) UJ	ND (0.619)
Methylene chloride	5	ND (1.26) U	2.68 J	ND (3.06) U
Naphthalene	21	ND (0.0801) UJ	6.88 J	ND (0.708) UJ
n-Propylbenzene	70	ND (1.40)	ND (0.400) UJ	ND (0.698)
1,1,2,2-Tetrachloroethane	0.17	ND (0.870)	ND (0.740) UJ	ND (1.09)
Tetrachloroethene	0.7	ND (1.44)	ND (1.14) UJ	ND (1.03)
Toluene	1000	10.7	26.2 J	40.3
1,1,1-Trichloroethane	200	1,760	4,480	6,160
1,1,2-Trichloroethane	—	ND (0.821)	3.62 J	4.76 J
Trichloroethene	2.8	39.6	105 J	76.3
1,2,4-Trimethylbenzene	350	ND (1.24)	ND (0.198) UJ	ND (0.744)
1,3,5-Trimethylbenzene	350	ND (0.905)	ND (0.385) UJ	ND (0.616)

Table 3-26 (Continued)

Analyte	Groundwater Standard	February 2001	August 2001	August 2002
Vinyl chloride	.015	4.73	9.02 J	16.2
m&p-Xylene	530	ND (1.67)	2.12 J	2.84 J
o-Xylene	530	ND (0.844)	2.09J	3.26 J

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
R = Unusable result.
U = Not present above the associated level, blank contamination present.
UJ = Not detected and the detection limit is estimated.

Table 3-27

Historical Analytical Results for MW-228
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	November 1998	February 2000	May 2000	September 2000
Acetone	700	307 J	ND (1,430)	360 J	ND (572) UJ
Benzene	1	51.3 J	ND (246)	56.5 J	ND (98.4)
2-Butanone (MEK)	170	21.3 J	ND (895)	382 J	ND (358)
n-Butylbenzene	70	15.6 J	ND (321)	9.88 J	ND (128)
sec-Butylbenzene	70	5.27 J	ND (372)	7.96 J	ND (149)
Carbon tetrachloride	0.3	42.2 J	ND (434)	26.2 J	ND (173) UJ
Chloroethane	2800	74.7 J	ND (378)	89.8 J	ND (151)
Chloroform	0.19	12.8 J	ND (335)	9.62 J	ND (134)
Chloromethane	2.6	ND (0.0521) UJ	ND (410)	1.33 J	ND (164) UJ
1,1-Dichloroethane	700	24,100	16,200	14,500	11,900
1,2-Dichloroethane	0.38	ND (0.0348) UJ	ND (250)	ND (0.0499) UJ	ND (99.8)
1,1-Dichloroethene	7	96,500	71,800	53,400	31,200
cis-1,2-Dichloroethene	70	3,330	1,970 J	2,360	2,380
trans-1,2-Dichloroethene	70	24.2 J	ND (406)	17.0 J	ND (163)
1,1-Dichloropropene	—	ND (0.0444) UJ	ND (232)	1.51 J	ND (92.8)
Ethylbenzene	29	544	414 J	555 J	506 J
2-Hexanone	—	45.1 J	ND (835)	38.8 J	ND (334)
Isopropylbenzene	70	41.5 J	ND (237)	33.7 J	ND (94.8)
p-Isopropyltoluene	—	6.80 J	ND (226)	ND (0.0452) UJ	ND (90.4)
Methyl t-butyl ether	200	5.21 J	ND (234)	20.8 J	ND (93.8)
4-Methyl-2-pentanone (MIBK)	—	12.3 J	ND (422)	17.5 J	ND (169)
Methylene chloride	5	ND (6.22) UJ	ND (398)	ND (3.64) UJ	ND (280) U
Naphthalene	21	608	ND (530)	246 J	ND (212)
n-Propylbenzene	70	200	ND (443)	302 J	ND (177)
Styrene	100	ND (0.0578) UJ	ND (361)	ND (0.0722) UJ	ND (144)
1,1,1,2-Tetrachloroethane	—	0.810 J	ND (474)	0.844 J	ND (190)
1,1,2,2-Tetrachloroethane	0.17	0.688 J	ND (396)	ND (0.0792) UJ	ND (158)
Tetrachloroethene	0.7	30.5 J	ND (284)	32.4 J	ND (114)
Toluene	1000	1,460	1,610 J	1,520	1,340

Table 3-27 (Continued)

Analyte	Groundwater Standard	November 1998	February 2000	May 2000	September 2000
1,1,1-Trichloroethane	200	173,000	135,000	121,000 J	64,400
1,1,2-Trichloroethane	—	49.3 J	ND (476)	38.0 J	ND (190)
Trichloroethene	2.8	22,800	15,000	13,300	11,500
Trichlorofluoromethane	2100	12.7 J	ND (1,040)	8.12 J	ND (416)
1,1,2-Trichlorotrifluoroethane	210,000	ND (0.0986)	ND (383)	0.947 J	ND (153) UJ
1,2,4-Trimethylbenzene	350	1,270	1,220 J	1,190 J	933 J
1,3,5-Trimethylbenzene	350	309	ND (218)	407 J	ND (87.2)
Vinyl chloride	0.15	314	ND (287)	194 J	ND (115)
m&p-Xylene	530	1,540	1,760	1,680 J	1,520 J
o-Xylene	530	1,330	1,370	1,350	1,240

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
UJ = Not detected and the detection limit is estimated.

Table 3-27 (Continued)

Historical Analytical Results for MW-228
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	February 2001	August 2001	August 2002
Acetone	700	ND (87.6)	638 J	652 J
Benzene	1	38.7 J	43.9 J	61.2 J
2-Butanone (MEK)	170	500 J	548 J	1,850 J
n-Butylbenzene	70	28.9 J	23.9 J	36.2 J
sec-Butylbenzene	70	9.56 J	ND (3.28) UJ	12.3 J
Carbon tetrachloride	0.3	23.0 J	27.6 J	106 J
Chloroethane	2800	97.3 J	119 J	67.2 J
Chloroform	0.19	7.64 J	9.82 J	21.4 J
Chloromethane	2.6	ND (6.35) UJ	ND (5.22) UJ	ND (2.54) UJ
1,1-Dichloroethane	700	10,200	12,600	15,700
1,2-Dichloroethane	0.38	79.9 J	91.3 J	279 J
1,1-Dichloroethene	7	29,800	35,100	92,600
cis-1,2-Dichloroethene	70	3,740 J	1,650 J	4,500 J
trans-1,2-Dichloroethene	70	22.5 J	13.1 J	55.1 J
1,1-Dichloropropene	—	ND (4.97) UJ	ND (3.85) UJ	ND (1.87) UJ
Ethylbenzene	29	970 J	561 J	1,180 J
2-Hexanone	—	ND (8.45) UJ	ND (36.2) UJ	ND (41.9) UJ
Isopropylbenzene	70	63.8 J	40.1 J	74.0 J
p-Isopropyltoluene	—	ND (5.75) UJ	ND (3.94) UJ	ND (4.5) UJ
Methyl t-butyl ether	200	ND (5.80) UJ	ND (4.28) UJ	17.5 J
4-Methyl-2-pentanone (MIBK)	—	ND (8.90) UJ	ND (6.66) UJ	ND (23.6) UJ
Methylene chloride	5	ND (6.30) UJ	13.4 J	ND (17.2) UJ
Naphthalene	21	973 J	662 J	944 J
n-Propylbenzene	70	354 J	229 J	432 J
Styrene	100	28.3 J	12.9 J	15.2 J
1,1,1,2-Tetrachloroethane	—	ND (5.55) UJ	ND (5.98) UJ	ND (2.89) UJ
1,1,2,2-Tetrachloroethane	0.17	ND (4.35) UJ	ND (7.40) UJ	ND (5.43) UJ
Tetrachloroethene	0.7	18.6 J	19.6 J	97.1 J
Toluene	1000	1,610	1,390 J	2,920 J
1,1,1-Trichloroethane	200	50,500	76,100	80,600

Table 3-27 (Continued)

Analyte	Groundwater Standard	February 2001	August 2001	August 2002
1,1,2-Trichloroethane	—	25.1 J	28.0 J	112 J
Trichloroethene	2.8	15,400	8,300	19,000
Trichlorofluoromethane	2100	28.2	ND (6.00) UJ	ND (2.48) UJ
1,1,2-Trichlorotrifluoroethane	210,000	ND (6.15) UJ	ND (6.04) UJ	ND (2.64) UJ
1,2,4-Trimethylbenzene	350	2,110 J	1,370 J	2,400 J
1,3,5-Trimethylbenzene	350	530 J	340 J	622 J
Vinyl chloride	0.15	492	174 J	363 J
m&p-Xylene	530	2,530	1,640 J	3,090 J
o-Xylene	530	2,150J	1,350 J	2,600 J

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
UJ = Not detected and the detection limit is estimated.

Table 3-28

Historical Analytical Results for MW-230
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	November 1998	July 1999	October 1999	February 2000	May 2000	September 2000	November 2000
1,1-Dichloroethane	700	ND (0.0576)	ND (0.0736)	0.265	0.189 J	ND (0.348) U	ND (0.0487)	ND (0.124)
1,1-Dichloroethene	7	ND (0.306) U	ND (0.102)	0.133	0.148 J	0.593	ND (0.0697)	ND (0.122)
Cis-1,2-Dichloroethene	70	ND (2.67) U	ND (0.0595)	0.304	0.354 J	0.573	0.102 J	0.142 J
Methyl methacrylate	PQL	ND (0.130)	ND (0.156)	ND (0.0916)	ND (0.114)	ND (0.114) UJ	ND (0.114)	ND (0.131)
Toluene	1,000	ND (0.0522)	0.286	ND (0.309) U	0.284 J	0.0826 J	0.126 J	ND (0.0637)
Trichloroethene	2.8	ND (2.05) U	ND (0.0929)	0.921	0.661 J	1.11	ND (0.355) U	0.235 J

Analyte	Groundwater Standard	February 2001	May 2001	August 2001	November 2001	February 2002	May 2002	August 2002
1,1-Dichloroethane	700	ND (0.124)	ND (0.124)	ND (0.124)	ND (0.0445)	ND (0.0445)	ND (0.0445)	NS
1,1-Dichloroethene	7	ND (0.122)	ND (0.122)	ND (0.122)	ND (0.0492)	ND (0.0492)	ND (0.0492)	NS
Cis-1,2-Dichloroethene	70	0.0969 J	0.288 J	0.119 J	ND (0.0353)	ND (0.0353)	ND (0.0353)	NS
Methyl methacrylate	PQL	ND (0.131)	ND (0.131)	ND (0.131)	0.148 J	ND (0.175)	ND (0.175)	NS
Toluene	1,000	ND (0.0637)	ND (0.0637)	ND (0.0637)	ND (0.0236)	ND (0.0236)	ND (0.0236)	NS
Trichloroethene	2.8	0.160 J	0.292 J	0.140 J	ND (0.0506)	ND (0.0506)	ND (0.0506)	NS

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
NS = Not sampled due to insufficient groundwater volume
U = Not present above the associated level; blank contamination is present

Table 3-29

Historical Analytical Results for MW-234
Hamilton Beach◊Proctor-Silex, Inc.
Washington, North Carolina

Analyte	Groundwater Standard	July 1999	October 1999	February 2000	May 2000	September 2000	November 2000
Carbon disulfide	700	ND (0.864)	0.0600	ND (0.0484) UJ	ND (0.0484)	ND (0.0484) UJ	ND (0.0684)
1,1-Dichloroethene	7	ND (0.102)	ND (0.0819)	ND (0.0697)	0.145 J	ND (0.0697)	ND (0.122)

Analyte	Groundwater Standard	February 2001	May 2001	August 2001	November 2001	February 2002	May 2002
Carbon disulfide	700	ND (0.0684) UJ	ND (0.0684)	ND (0.0684)	ND (0.0415)	ND (0.0415)	ND (0.0415)
1,1-Dichloroethene	7	ND (0.122)	ND (0.122)	ND (0.122)	ND (0.0492)	ND (0.0492)	ND (0.0492)

Analyte	Groundwater Standard	August 2002
Carbon disulfide	700	ND (0.0684)
1,1-Dichloroethene	7	ND (0.0492)

Target analytes not listed were not detected.
All samples reported in micrograms per liter.
J = Estimated value.
ND = Not detected at (detection limit).
UJ = Not detected and the detection limit is estimated.

APPENDIX A

GROUNDWATER SAMPLING ANALYTICAL REPORTS

QUALIFIED DATA

Hamilton Beach◊Proctor-Silex, Washington, NC
Data Evaluation Report
URS Corporation, September 2002

Introduction

URS Corporation collected fourteen groundwater samples (0802HBWW- 213 through 216, 220, 222, 224 through 227, 228, and 234, 0802HBWD998, and 0802HBWD999), including two field duplicate samples, at the Hamilton Beach<>Proctor Silex facility in Washington, NC on August 20 and 21, 2002. The samples were submitted to Severn Trent Laboratories (STL) in Austin, Texas for the determination of volatile organic compounds (VOC) by SW-846 Method 8260B. A trip blank was included with each shipment of samples to the laboratory for the analysis of VOC.

URS Corporation reviewed the analytical results, which were reported by the laboratory under work order numbers 20208123 and 20208147. The data evaluation was modeled after the *National Functional Guidelines for Organic Data Review* (EPA, October 1999). Qualitative and quantitative limitations associated with the analytical results were identified and defined based on the results of specific quality control (QC) criteria. Accuracy was determined from the review of spike recoveries. Precision was based on the evaluation of laboratory duplicate results. Sensitivity was evaluated by comparing reported detection limits to project-specific maximum reporting limits. Representativeness was evaluated from the review of holding time and blank data. Sample results have been appropriately qualified based on the criteria of the data review process. The results of the data review are summarized below.

Sample Condition upon Receipt and Holding Times

All samples were received intact and in good condition by STL on August 21 and 22, 2002. The temperature of sample containers upon receipt at the laboratory met EPA-established storage requirements of 4 ± 2°C. Air bubbles were not observed any volatile organic analysis (VOA) vials.

Technical hold times were assessed from a comparison of the sampling and analysis dates. Samples were analyzed for VOC within EPA-established holding times of seven days for unpreserved samples.

Calibration

Gas chromatograph/mass spectrometer (GC/MS) instrument tuning and performance checks are performed to ensure the instrument's ability to provide appropriate mass-resolution, identification, and sensitivity. All samples were analyzed for VOC within twelve hours of the performance check standard. The tuning compound mass-ion abundance criteria for the VOA were reported within control limits.

Control limits for initial and continuing calibrations are established to ensure that the instrument is capable of producing accurate quantitative and qualitative data at the beginning and throughout each of the analyses. Since the results of the initial calibration were not included in the laboratory report, the evaluation was based on the review of continuing calibration data. Laboratory specifications were met during the volatile organic continuing calibration conducted on August 21, 2002 at 13:43, August 25, 2002 at 14:32, and August 26, 2002 at 03:18 on instrument MSDA. The recovery of the continuing calibration standard, however, was not within 80-120% recovery of the true value for the following target analytes:

- Continuing Calibration of August 21, 2002 at 13:43 – Acrolein (77%), 1-chlorohexane (130%), trans-1,4-dichloro-2-butene (121%), dichlorodifluoromethane (68%), 2,2-dichloropropane (127%), 2-hexanone (121%), tetrahydrofuran (128%), trichlorofluoromethane (125%), vinyl acetate (124%)

- Continuing Calibration of August 25, 2002 at 14:32 – Acetonitrile (127%), acrolein (68%), bromoform (78%), carbon disulfide (71%), 1-chorohexanone (129%), 2,2-dichloropropane (137%), hexachloro-1,3-butadiene (74%), naphthalene (71%), tetrahydrofuran (123%), 1,2,3-trichlorobenzene (61%), 1,2,4-trichlorobenzene (78%), trichlorofluoromethane (134%), vinyl acetate (134%)
- Continuing Calibration of August 26, 2002 at 03:18 – Acetone (71%), acrolein (57%), 1,2-dichloroethane (78%), hexachloro-1,3-butadiene (64%), naphthalene (71%), tetrachloroethene (166%), tetrahydrofuran (125%), 1,2,3-trichlorobenzene (61%), 1,2,4-trichlorobenzene (76%), vinyl acetate (57%)

Results for compounds where the recovery was less than 80% during the continuing calibration have been qualified as estimated (J, UJ) in associated samples. Positive sample results were qualified as estimated (J) when the recovery exceeded 120% in the continuing calibration.

Laboratory Control Samples

Laboratory control samples (LCS) are blank samples fortified (spiked) with known concentrations of analyte of interest. The percent recoveries and/or duplicate results of the LCS and their duplicates are used to assess extraction efficiencies and overall analytical accuracy and precision.

The laboratory criteria for accuracy and precision were met during LCS and LCS duplicate (LCSD) analyses for all target analytes. Although laboratory specifications were met for accuracy, non-detect results for carbon disulfide, dichlorodifluoromethane, and vinyl chloride were qualified as unusable (R) in associated samples because the percent recovery of the LCS and LCSD was less than 60% of the true value.

Blank Contamination

Laboratory blanks are clean liquid and/or solid matrix samples prepared by the analytical laboratory and analyzed in the same manner as the field samples. Laboratory blanks are used to ensure that the field samples are not contaminated during the sample preparation, sample analysis, or from previous samples (instrument carry-over). Trip blanks are analyte-free water samples that accompany volatile investigative samples during all stages of shipment, storage, and analysis. The trip blanks are used to assess the potential for artificial introduction of volatile compounds into the investigative samples during the transportation and sample handling processes.

Methylene chloride, a common laboratory blank contaminant, was detected at concentrations ranging from 0.380 to 0.424 J micrograms per liter (µg/L) in trip blanks. Trichloroethene (TCE) was detected in the method and trip blank at a concentration of 0.108 and 0.0421 J µg/L, respectively. Sample results that were not significantly greater (ten times for methylene chloride, five times for TCE) than that detected in the blanks have been qualified due to the presence of blank contamination. Affected sample results have been flagged "ND" and detection limits elevated to the amount present in the sample and flagged with a U.

Surrogate Spikes

Surrogates are organic compounds that are similar in chemical composition to the analytes of interest, but which are not normally found in environmental samples. The laboratory spikes surrogates into all project and laboratory QC samples prior to preparation and analysis. Surrogate recoveries are used to assess extraction efficiencies, possible matrix effects, and overall analytical accuracy during organic analyses.

Surrogate recoveries met laboratory control limits during the VOA of all sample analyses, except 0802HBWW228. The recovery (19%) of surrogate 1,2-dichloroethane-d4 was less than laboratory control limits of 61-143% during the August 26 at 07:50 analysis of sample 0802HBWW228. Acceptable

surrogate results were obtained upon reanalysis of the sample at a 1000-fold dilution. The laboratory suspected matrix interference due to the presence of target analytes at elevated concentrations. Sample results from the August 26 analysis of sample 0802HBWW228 have been qualified as estimated (J, UJ) due to interference.

Matrix Spikes

Matrix spikes (MS) are samples spiked with known concentrations of analytes of interest. MS percent recoveries and duplicate results are used to assess extraction efficiencies, possible matrix effects, and overall analytical accuracy and precision.

A batch sample was selected for the volatile organic MS and matrix spike duplicate (MSD) analysis. An evaluation of matrix interference is not possible since the batch sample results, which were not included in the analytical report by the laboratory, may not be representative of conditions at the site.

Field Duplicates

Field duplicate samples are used to demonstrate acceptable precision during the sample collection process.

Samples 0802HBWD -998 and 999 are field duplicates of samples 0802HBWW- 226 and 214, respectively. Good agreement was observed between volatile organic results for samples 0802HBWD998 and 0802HBWW226. In addition, the criteria for precision were met during the VOA of samples 0802HBWD999 and 0802HBWW214 for all target analytes, except benzene and chloroethane. Benzene and chloroethane were detected in the field duplicate, but not sample 0802HBWW214. Benzene and chloroethane results have been qualified as estimated (J, UJ) in samples 0802HBWW214 and 0802HBWD999 as a result.

Sample Results

The laboratory provided volatile organic results for all North Carolina groundwater quality standards presented in 15A NCAC 2L.0202. Detection limits were less than or equal to Class GA standard or practical quantitation limits for undiluted sample analyses.

The laboratory flagged sample results less than the practical quantitation limit and sample detection limit with a J and U, respectively. All positive sample results that are less than these limits are considered estimated (J).

ECTION IV
nalytical Results

S-VOA
N8260B

Client Sample ID	0802 HBWW 216	0802 HBWW 220	0802 HBWW 222
Lab Sample ID	2020812306	2020812301	2020812307

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND		0.0452	0.00	ND		0.0452	0.00	ND		0.0452	0.00
Isopropylbenzene	98-82-8	ND		0.0769	0.00	ND		0.0769	0.00	ND		0.0769	0.00
4-Isopropyltoluene	99-87-6	ND		0.0899	0.00	ND		0.0899	0.00	ND		0.0899	0.00
Methyl methacrylate	80-62-6	ND		0.175	0.00	ND		0.175	0.00	ND		0.175	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.0619	0.00	ND		0.0619	0.00	ND		0.0619	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		0.473	0.00	ND		0.473	0.00	ND		0.473	0.00
Methylene chloride	75-09-2	ND		0.0210	0.00	ND		0.0210	0.00	ND		0.0210	0.00
Naphthalene	91-20-3	ND		0.0708	0.00	ND		0.0708	0.00	ND		0.0708	0.00
Propanenitrile	107-12-0	ND		0.652	0.00	ND		0.652	0.00	ND		0.652	0.00
n-Propylbenzene	103-65-1	ND		0.0698	0.00	ND		0.0698	0.00	ND		0.0698	0.00
Styrene	100-42-5	ND		0.0295	0.00	ND		0.0295	0.00	ND		0.0295	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.0578	0.00	ND		0.0578	0.00	ND		0.0578	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND		0.109	0.00	ND		0.109	0.00	ND		0.109	0.00
Tetrachloroethene	127-18-4	ND		0.103	0.00	ND		0.103	0.00	ND		0.103	0.00
Tetrahydrofuran	109-99-9	ND		1.28	0.00	ND		1.28	0.00	ND		1.28	0.00
Toluene	108-88-3	ND		0.0236	0.00	ND		0.0236	0.00	ND		0.0236	0.00
1,2,3-Trichlorobenzene	87-61-6	ND		0.110	0.00	ND		0.110	0.00	ND		0.110	0.00
1,2,4-Trichlorobenzene	120-82-1	ND		0.140	0.00	ND		0.140	0.00	ND		0.140	0.00
1,1,1-Trichloroethane	71-55-6	ND		0.0511	0.00	ND		0.0511	0.00	ND		0.0511	0.00
1,1,2-Trichloroethane	79-00-5	ND		0.0489	0.00	ND		0.0489	0.00	ND		0.0489	0.00
Trichloroethene	79-01-6	ND		0.0506	0.00	ND		0.0506	0.00	ND		0.0506	0.00
Trichlorofluoromethane	75-69-4	ND		0.0495	0.00	ND		0.0495	0.00	ND		0.0495	0.00
1,2,3-Trichloropropane	96-18-4	ND		0.117	0.00	ND		0.117	0.00	ND		0.117	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.0529	0.00	ND		0.0529	0.00	ND		0.0529	0.00
1,2,4-Trimethylbenzene	95-63-6	ND		0.0744	0.00	ND		0.0744	0.00	ND		0.0744	0.00
1,3,5-Trimethylbenzene	108-67-8	ND		0.0616	0.00	ND		0.0616	0.00	ND		0.0616	0.00
Vinyl acetate	108-05-4	~~ND~~	R	~~0.172~~	~~0.00~~	~~ND~~	R	~~0.172~~	~~0.00~~	~~ND~~	R	~~0.172~~	~~0.00~~
Vinyl chloride	75-01-4	ND		0.0501	0.00	ND		0.0501	0.00	ND		0.0501	0.00

...ts has been qualified by URS-Radian based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

ECTION IV
nalytical Results

S-VOA
W8260B

Client Sample ID	0802 HBWW 216	0802 HBWW 220	0802 HBWW 222
Lab Sample ID	2020812306	2020812301	2020812307

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
p-Xylene/m-Xylene	106-42-3	ND		0.0869	0.00	ND		0.0869	0.00	ND		0.0869	0.00
o-Xylene	95-47-6	ND		0.0409	0.00	ND		0.0409	0.00	ND		0.0409	0.00

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ECTION IV
nalytical Results
urrogates

IS-VOA
W8260B

Client Sample ID	0802 HBWW 216	0802 HBWW 220	0802 HBWW 222
Lab Sample ID	2020812306	2020812301	2020812307
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/20/2002 15:25	08/20/2002 14:00	08/20/2002 16:05
Date/Time Prepared	08/21/2002 23:03	08/21/2002 20:30	08/21/2002 23:34
Date/Time Analyzed	08/21/2002 23:03	08/21/2002 20:30	08/21/2002 23:34
Dilution Factor	1.0000	1.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	104	77-117		102	77-117		104	77-117	
1,2-Dichloroethane-d4	92	61-143		91	61-143		90	61-143	
Toluene-d8	101	87-113		100	87-113		97	87-113	

... been qualified by URS-Radian based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

ECTION IV
nalytical Results

IS-VOA
W8260B

Client Sample ID	0802 HBWW 224	0802 HBWW 225	0802 HBWW 226
Lab Sample ID	2020812303	2020812302	2020812304
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/20/2002 14:15	08/20/2002 14:20	08/20/2002 12:30
Date/Time Prepared	08/21/2002 21:31	08/21/2002 21:00	08/21/2002 22:02
Date/Time Analyzed	08/21/2002 21:31	08/21/2002 21:00	08/21/2002 22:02
Dilution Factor	1.0000	1.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		1.26	0.00	ND		1.26	0.00	ND		1.26	0.00
Acetonitrile	75-05-8	ND		5.34	0.00	ND		5.34	0.00	ND		5.34	0.00
Acrolein	107-02-8	ND	UJ	2.84	0.00	ND	UJ	2.84	0.00	ND	UJ	2.84	0.00
Acrylonitrile	107-13-1	ND		0.290	0.00	ND		0.290	0.00	ND		0.290	0.00
Benzene	71-43-2	ND		0.0465	0.00	ND		0.0465	0.00	ND		0.0465	0.00
Bromobenzene	108-86-1	ND		0.0643	0.00	ND		0.0643	0.00	ND		0.0643	0.00
Bromochloromethane	74-97-5	ND		0.0449	0.00	ND		0.0449	0.00	ND		0.0449	0.00
Bromodichloromethane	75-27-4	ND		0.0528	0.00	ND		0.0528	0.00	ND		0.0528	0.00
Bromoform	75-25-2	ND		0.106	0.00	ND		0.106	0.00	ND		0.106	0.00
Bromomethane	74-83-9	ND		0.0454	0.00	ND		0.0454	0.00	ND		0.0454	0.00
2-Butanone (MEK)	78-93-3	ND		2.83	0.00	ND		2.83	0.00	ND		2.83	0.00
n-Butylbenzene	104-51-8	ND		0.0888	0.00	ND		0.0888	0.00	ND		0.0888	0.00
sec-Butylbenzene	135-98-8	ND		0.104	0.00	ND		0.104	0.00	ND		0.104	0.00
tert-Butylbenzene	98-06-6	ND		0.0934	0.00	ND		0.0934	0.00	ND		0.0934	0.00
Carbon disulfide	75-15-0	ND		0.0415	0.00	ND		0.0415	0.00	ND		0.0415	0.00
Carbon tetrachloride	56-23-5	ND		0.0553	0.00	ND		0.0553	0.00	ND		0.0553	0.00
2-Chloro-1,3-butadiene	126-99-8	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
Chlorobenzene	108-90-7	ND		0.0404	0.00	ND		0.0404	0.00	ND		0.0404	0.00
Chloroethane	75-00-3	ND		0.0755	0.00	ND		0.0755	0.00	ND		0.0755	0.00
Chloroform	67-66-3	ND		0.0338	0.00	ND		0.0338	0.00	ND		0.0338	0.00
1-Chlorohexane	544-10-5	ND		0.0798	0.00	ND		0.0798	0.00	ND		0.0798	0.00

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ECTION IV
.nalytical Results

IS-VOA
W8260B

Client Sample ID	0802 HBWW 224	0802 HBWW 225	0802 HBWW 226
Lab Sample ID	2020812303	2020812302	2020812304

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND		0.0509	0.00	ND		0.0509	0.00	ND		0.0509	0.00
3-Chloropropene	107-05-1	ND		0.0785	0.00	ND		0.0785	0.00	ND		0.0785	0.00
2-Chlorotoluene	95-49-8	ND		0.0359	0.00	ND		0.0359	0.00	ND		0.0359	0.00
4-Chlorotoluene	106-43-4	ND		0.0684	0.00	ND		0.0684	0.00	ND		0.0684	0.00
1,2-Dibromo-3-chloropropane	96-12-8	ND		0.777	0.00	ND		0.777	0.00	ND		0.777	0.00
Dibromochloromethane	124-48-1	ND		0.0946	0.00	ND		0.0946	0.00	ND		0.0946	0.00
1,2-Dibromoethane	106-93-4	ND		0.0895	0.00	ND		0.0895	0.00	ND		0.0895	0.00
Dibromomethane	74-95-3	ND		0.0550	0.00	ND		0.0550	0.00	ND		0.0550	0.00
trans-1,4-Dichloro-2-butene	110-57-6	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
1,4-Dichlorobenzene	106-46-7	ND		0.0495	0.00	ND		0.0495	0.00	ND		0.0495	0.00
1,2-Dichlorobenzene	95-50-1	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
1,3-Dichlorobenzene	541-73-1	ND		0.0591	0.00	ND		0.0591	0.00	ND		0.0591	0.00
Dichlorodifluoromethane	75-71-8	~~ND~~	R	~~0.0930~~	~~0.00~~	~~ND~~	R	~~0.0930~~	~~0.00~~	~~ND~~	R	~~0.0930~~	~~0.00~~
1,1-Dichloroethane	75-34-3	ND		0.0445	0.00	ND		0.0445	0.00	ND		0.0445	0.00
1,2-Dichloroethane	107-06-2	ND		0.0632	0.00	ND		0.0632	0.00	ND		0.0632	0.00
1,1-Dichloroethene	75-35-4	ND		0.0492	0.00	ND		0.0492	0.00	0.0631	J	0.0492	0.00
cis-1,2-Dichloroethene	156-59-2	ND		0.0353	0.00	ND		0.0353	0.00	ND		0.0353	0.00
trans-1,2-Dichloroethene	156-60-5	ND		0.0430	0.00	ND		0.0430	0.00	ND		0.0430	0.00
1,2-Dichloropropane	78-87-5	ND		0.0519	0.00	ND		0.0519	0.00	ND		0.0519	0.00
1,3-Dichloropropane	142-28-9	ND		0.0401	0.00	ND		0.0401	0.00	ND		0.0401	0.00
2,2-Dichloropropane	594-20-7	ND		0.0492	0.00	ND		0.0492	0.00	ND		0.0492	0.00
1,1-Dichloropropene	563-58-6	ND		0.0374	0.00	ND		0.0374	0.00	ND		0.0374	0.00
cis-1,3-Dichloropropene	10061-01-5	ND		0.0526	0.00	ND		0.0526	0.00	ND		0.0526	0.00
trans-1,3-Dichloropropene	10061-02-6	ND		0.0486	0.00	ND		0.0486	0.00	ND		0.0486	0.00
Ethyl methacrylate	97-63-2	ND		0.0822	0.00	ND		0.0822	0.00	ND		0.0822	0.00
Ethylbenzene	100-41-4	ND		0.0469	0.00	ND		0.0469	0.00	ND		0.0469	0.00
Hexachloro-1,3-butadiene	87-68-3	ND		0.155	0.00	ND		0.155	0.00	ND		0.155	0.00
2-Hexanone	591-78-6	ND		0.838	0.00	ND		0.838	0.00	ND		0.838	0.00

STL LIMS Rules based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 224	0802 HBWW 225	0802 HBWW 226
Lab Sample ID	2020812303	2020812302	2020812304

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND		0.0452	0.00	ND		0.0452	0.00	ND		0.0452	0.00
Isopropylbenzene	98-82-8	ND		0.0769	0.00	ND		0.0769	0.00	ND		0.0769	0.00
4-Isopropyltoluene	99-87-6	ND		0.0899	0.00	ND		0.0899	0.00	ND		0.0899	0.00
Methyl methacrylate	80-62-6	ND		0.175	0.00	ND		0.175	0.00	ND		0.175	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.0619	0.00	ND		0.0619	0.00	ND		0.0619	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		0.473	0.00	ND		0.473	0.00	ND		0.473	0.00
Methylene chloride	75-09-2	ND		0.0210	0.00	ND		0.0210	0.00	ND		0.0210	0.00
Naphthalene	91-20-3	ND		0.0708	0.00	ND		0.0708	0.00	ND		0.0708	0.00
Propanenitrile	107-12-0	ND		0.652	0.00	ND		0.652	0.00	ND		0.652	0.00
n-Propylbenzene	103-65-1	ND		0.0698	0.00	ND		0.0698	0.00	ND		0.0698	0.00
Styrene	100-42-5	ND		0.0295	0.00	ND		0.0295	0.00	ND		0.0295	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.0578	0.00	ND		0.0578	0.00	ND		0.0578	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND		0.109	0.00	ND		0.109	0.00	ND		0.109	0.00
Tetrachloroethene	127-18-4	ND		0.103	0.00	ND		0.103	0.00	ND		0.103	0.00
Tetrahydrofuran	109-99-9	ND		1.28	0.00	ND		1.28	0.00	ND		1.28	0.00
Toluene	108-88-3	ND		0.0236	0.00	ND		0.0236	0.00	ND		0.0236	0.00
1,2,3-Trichlorobenzene	87-61-6	ND		0.110	0.00	ND		0.110	0.00	ND		0.110	0.00
1,2,4-Trichlorobenzene	120-82-1	ND		0.140	0.00	ND		0.140	0.00	ND		0.140	0.00
1,1,1-Trichloroethane	71-55-6	ND		0.0511	0.00	ND		0.0511	0.00	ND		0.0511	0.00
1,1,2-Trichloroethane	79-00-5	ND		0.0489	0.00	ND		0.0489	0.00	ND		0.0489	0.00
Trichloroethene	79-01-6	ND		0.0506	0.00	ND		0.0506	0.00	ND		0.0506	0.00
Trichlorofluoromethane	75-69-4	ND		0.0495	0.00	ND		0.0495	0.00	ND		0.0495	0.00
1,2,3-Trichloropropane	96-18-4	ND		0.117	0.00	ND		0.117	0.00	ND		0.117	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.0529	0.00	ND		0.0529	0.00	ND		0.0529	0.00
1,2,4-Trimethylbenzene	95-63-6	ND		0.0744	0.00	ND		0.0744	0.00	ND		0.0744	0.00
1,3,5-Trimethylbenzene	108-67-8	ND		0.0616	0.00	ND		0.0616	0.00	ND		0.0616	0.00
Vinyl acetate	108-05-4	~~ND~~	R	~~0.172~~	~~0.00~~	~~ND~~	R	~~0.172~~	~~0.00~~	~~ND~~	R	~~0.172~~	~~0.00~~
Vinyl chloride	75-01-4	ND		0.0501	0.00	ND		0.0501	0.00	ND		0.0501	0.00

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ECTION IV
nalytical Results

IS-VOA
W8260B

Client Sample ID	0802 HBWW 224	0802 HBWW 225	0802 HBWW 226
Lab Sample ID	2020812303	2020812302	2020812304

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
p-Xylene/m-Xylene	106-42-3	ND		0.0869	0.00	ND		0.0869	0.00	ND		0.0869	0.00
o-Xylene	95-47-6	ND		0.0409	0.00	ND		0.0409	0.00	ND		0.0409	0.00

... have been qualified by URS-Radian based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

ECTION IV
nalytical Results
urrogates

IS-VOA
W8260B

Client Sample ID	0802 HBWW 224	0802 HBWW 225	0802 HBWW 226
Lab Sample ID	2020812303	2020812302	2020812304
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/20/2002 14:15	08/20/2002 14:20	08/20/2002 12:30
Date/Time Prepared	08/21/2002 21:31	08/21/2002 21:00	08/21/2002 22:02
Date/Time Analyzed	08/21/2002 21:31	08/21/2002 21:00	08/21/2002 22:02
Dilution Factor	1.0000	1.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	102	77-117		101	77-117		105	77-117	
1,2-Dichloroethane-d4	90	61-143		90	61-143		91	61-143	
Toluene-d8	100	87-113		99	87-113		100	87-113	

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SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 234	0802 HBWW 998	TRIP BLANK - TB1
Lab Sample ID	2020812305	2020812308	2020812309
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/20/2002 14:55	08/20/2002 12:35	08/20/2002 00:00
Date/Time Prepared	08/21/2002 22:32	08/22/2002 00:05	08/22/2002 00:36
Date/Time Analyzed	08/21/2002 22:32	08/22/2002 00:05	08/22/2002 00:36
Dilution Factor	1.0000	1.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		1.26	0.00	ND		1.26	0.00	ND		1.26	0.00
Acetonitrile	75-05-8	ND		5.34	0.00	ND		5.34	0.00	ND		5.34	0.00
Acrolein	107-02-8	ND	UJ	2.84	0.00	ND	UJ	2.84	0.00	ND	UJ	2.84	0.00
Acrylonitrile	107-13-1	ND		0.290	0.00	ND		0.290	0.00	ND		0.290	0.00
Benzene	71-43-2	ND		0.0465	0.00	ND		0.0465	0.00	ND		0.0465	0.00
Bromobenzene	108-86-1	ND		0.0643	0.00	ND		0.0643	0.00	ND		0.0643	0.00
Bromochloromethane	74-97-5	ND		0.0449	0.00	ND		0.0449	0.00	ND		0.0449	0.00
Bromodichloromethane	75-27-4	ND		0.0528	0.00	ND		0.0528	0.00	ND		0.0528	0.00
Bromoform	75-25-2	ND		0.106	0.00	ND		0.106	0.00	ND		0.106	0.00
Bromomethane	74-83-9	ND		0.0454	0.00	ND		0.0454	0.00	ND		0.0454	0.00
2-Butanone (MEK)	78-93-3	ND		2.83	0.00	ND		2.83	0.00	ND		2.83	0.00
n-Butylbenzene	104-51-8	ND		0.0888	0.00	ND		0.0888	0.00	ND		0.0888	0.00
sec-Butylbenzene	135-98-8	ND		0.104	0.00	ND		0.104	0.00	ND		0.104	0.00
tert-Butylbenzene	98-06-6	ND		0.0934	0.00	ND		0.0934	0.00	ND		0.0934	0.00
Carbon disulfide	75-15-0	ND		0.0415	0.00	ND		0.0415	0.00	ND		0.0415	0.00
Carbon tetrachloride	56-23-5	ND		0.0553	0.00	ND		0.0553	0.00	ND		0.0553	0.00
2-Chloro-1,3-butadiene	126-99-8	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
Chlorobenzene	108-90-7	ND		0.0404	0.00	ND		0.0404	0.00	ND		0.0404	0.00
Chloroethane	75-00-3	ND		0.0755	0.00	ND		0.0755	0.00	ND		0.0755	0.00
Chloroform	67-66-3	ND		0.0338	0.00	ND		0.0338	0.00	ND		0.0338	0.00
1-Chlorohexane	544-10-5	ND		0.0798	0.00	ND		0.0798	0.00	ND		0.0798	0.00

... based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

ECTION IV
nalytical Results

IS-VOA
W8260B

Client Sample ID	0802 HBWW 234	0802 HBWW 998	TRIP BLANK - TB1
Lab Sample ID	2020812305	2020812308	2020812309

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND		0.0509	0.00	ND		0.0509	0.00	ND		0.0509	0.00
3-Chloropropene	107-05-1	ND		0.0785	0.00	ND		0.0785	0.00	ND		0.0785	0.00
2-Chlorotoluene	95-49-8	ND		0.0359	0.00	ND		0.0359	0.00	ND		0.0359	0.00
4-Chlorotoluene	106-43-4	ND		0.0684	0.00	ND		0.0684	0.00	ND		0.0684	0.00
1,2-Dibromo-3-chloropropane	96-12-8	ND		0.777	0.00	ND		0.777	0.00	ND		0.777	0.00
Dibromochloromethane	124-48-1	ND		0.0946	0.00	ND		0.0946	0.00	ND		0.0946	0.00
1,2-Dibromoethane	106-93-4	ND		0.0895	0.00	ND		0.0895	0.00	ND		0.0895	0.00
Dibromomethane	74-95-3	ND		0.0550	0.00	ND		0.0550	0.00	ND		0.0550	0.00
trans-1,4-Dichloro-2-butene	110-57-6	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
1,4-Dichlorobenzene	106-46-7	ND		0.0495	0.00	ND		0.0495	0.00	ND		0.0495	0.00
1,2-Dichlorobenzene	95-50-1	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
1,3-Dichlorobenzene	541-73-1	ND		0.0591	0.00	ND		0.0591	0.00	ND		0.0591	0.00
Dichlorodifluoromethane	75-71-8	~~ND~~	R	~~0.0930~~	~~0.00~~	~~ND~~	R	~~0.0930~~	~~0.00~~	~~ND~~	R	~~0.0930~~	~~0.00~~
1,1-Dichloroethane	75-34-3	ND		0.0445	0.00	ND		0.0445	0.00	ND		0.0445	0.00
1,2-Dichloroethane	107-06-2	ND		0.0632	0.00	ND		0.0632	0.00	ND		0.0632	0.00
1,1-Dichloroethene	75-35-4	ND		0.0492	0.00	0.119	J	0.0492	0.00	ND		0.0492	0.00
cis-1,2-Dichloroethene	156-59-2	ND		0.0353	0.00	ND		0.0353	0.00	ND		0.0353	0.00
trans-1,2-Dichloroethene	156-60-5	ND		0.0430	0.00	ND		0.0430	0.00	ND		0.0430	0.00
1,2-Dichloropropane	78-87-5	ND		0.0519	0.00	ND		0.0519	0.00	ND		0.0519	0.00
1,3-Dichloropropane	142-28-9	ND		0.0401	0.00	ND		0.0401	0.00	ND		0.0401	0.00
2,2-Dichloropropane	594-20-7	ND		0.0492	0.00	ND		0.0492	0.00	ND		0.0492	0.00
1,1-Dichloropropene	563-58-6	ND		0.0374	0.00	ND		0.0374	0.00	ND		0.0374	0.00
cis-1,3-Dichloropropene	10061-01-5	ND		0.0526	0.00	ND		0.0526	0.00	ND		0.0526	0.00
trans-1,3-Dichloropropene	10061-02-6	ND		0.0486	0.00	ND		0.0486	0.00	ND		0.0486	0.00
Ethyl methacrylate	97-63-2	ND		0.0822	0.00	ND		0.0822	0.00	ND		0.0822	0.00
Ethylbenzene	100-41-4	ND		0.0469	0.00	ND		0.0469	0.00	ND		0.0469	0.00
Hexachloro-1,3-butadiene	87-68-3	ND		0.155	0.00	ND		0.155	0.00	ND		0.155	0.00
2-Hexanone	591-78-6	ND		0.838	0.00	ND		0.838	0.00	ND		0.838	0.00

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SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 234	0802 HBWW 998	TRIP BLANK - TB1
Lab Sample ID	2020812305	2020812308	2020812309

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND		0.0452	0.00	ND		0.0452	0.00	ND		0.0452	0.00
Isopropylbenzene	98-82-8	ND		0.0769	0.00	ND		0.0769	0.00	ND		0.0769	0.00
4-Isopropyltoluene	99-87-6	ND		0.0899	0.00	ND		0.0899	0.00	ND		0.0899	0.00
Methyl methacrylate	80-62-6	ND		0.175	0.00	ND		0.175	0.00	ND		0.175	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.0619	0.00	ND		0.0619	0.00	ND		0.0619	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		0.473	0.00	ND		0.473	0.00	ND		0.473	0.00
Methylene chloride	75-09-2	ND		0.0210	0.00	ND		0.0210	0.00	0.424	J	0.0210	0.00
Naphthalene	91-20-3	ND		0.0708	0.00	ND		0.0708	0.00	ND		0.0708	0.00
Propanenitrile	107-12-0	ND		0.652	0.00	ND		0.652	0.00	ND		0.652	0.00
n-Propylbenzene	103-65-1	ND		0.0698	0.00	ND		0.0698	0.00	ND		0.0698	0.00
Styrene	100-42-5	ND		0.0295	0.00	ND		0.0295	0.00	ND		0.0295	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.0578	0.00	ND		0.0578	0.00	ND		0.0578	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND		0.109	0.00	ND		0.109	0.00	ND		0.109	0.00
Tetrachloroethene	127-18-4	ND		0.103	0.00	ND		0.103	0.00	ND		0.103	0.00
Tetrahydrofuran	109-99-9	ND		1.28	0.00	ND		1.28	0.00	ND		1.28	0.00
Toluene	108-88-3	ND		0.0236	0.00	ND		0.0236	0.00	ND		0.0236	0.00
1,2,3-Trichlorobenzene	87-61-6	ND		0.110	0.00	ND		0.110	0.00	ND		0.110	0.00
1,2,4-Trichlorobenzene	120-82-1	ND		0.140	0.00	ND		0.140	0.00	ND		0.140	0.00
1,1,1-Trichloroethane	71-55-6	ND		0.0511	0.00	ND		0.0511	0.00	ND		0.0511	0.00
1,1,2-Trichloroethane	79-00-5	ND		0.0489	0.00	ND		0.0489	0.00	ND		0.0489	0.00
Trichloroethene	79-01-6	ND		0.0506	0.00	ND		0.0506	0.00	ND		0.0506	0.00
Trichlorofluoromethane	75-69-4	ND		0.0495	0.00	ND		0.0495	0.00	ND		0.0495	0.00
1,2,3-Trichloropropane	96-18-4	ND		0.117	0.00	ND		0.117	0.00	ND		0.117	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.0529	0.00	ND		0.0529	0.00	ND		0.0529	0.00
1,2,4-Trimethylbenzene	95-63-6	ND		0.0744	0.00	ND		0.0744	0.00	ND		0.0744	0.00
1,3,5-Trimethylbenzene	108-67-8	ND		0.0616	0.00	ND		0.0616	0.00	ND		0.0616	0.00
Vinyl acetate	108-05-4	~~ND~~	R	~~0.172~~	~~0.00~~	~~ND~~	R	~~0.172~~	~~0.00~~	~~ND~~	R	~~0.172~~	~~0.00~~
Vinyl chloride	75-01-4	ND		0.0501	0.00	ND		0.0501	0.00	ND		0.0501	0.00

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ECTION IV
nalytical Results

IS-VOA
W8260B

Client Sample ID	0802 HBWW 234	0802 HBWW 998	TRIP BLANK - TB1
Lab Sample ID	2020812305	2020812308	2020812309

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
p-Xylene/m-Xylene	106-42-3	ND		0.0869	0.00	ND		0.0869	0.00	ND		0.0869	0.00
o-Xylene	95-47-6	ND		0.0409	0.00	ND		0.0409	0.00	ND		0.0409	0.00

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:CTION IV
ıalytical Results
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S-VOA
N8260B

Client Sample ID	0802 HBWW 234	0802 HBWW 998	TRIP BLANK - TB1
Lab Sample ID	2020812305	2020812308	2020812309
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/20/2002 14:55	08/20/2002 12:35	08/20/2002 00:00
Date/Time Prepared	08/21/2002 22:32	08/22/2002 00:05	08/22/2002 00:36
Date/Time Analyzed	08/21/2002 22:32	08/22/2002 00:05	08/22/2002 00:36
Dilution Factor	1.0000	1.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	104	77-117		106	77-117		104	77-117	
1,2-Dichloroethane-d4	92	61-143		93	61-143		88	61-143	
Toluene-d8	101	87-113		99	87-113		99	87-113	

...ified by URS-Radian based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

ECTION IV
nalytical Results

S-VOA
W8260B

Client Sample ID	0802 HBWW 213	0802 HBWW 214	0802 HBWW 215
Lab Sample ID	2020814706	2020814702	2020814701
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 08:42	08/21/2002 09:08	08/21/2002 08:54
Date/Time Prepared	08/26/2002 00:15	08/25/2002 23:45	08/25/2002 18:39
Date/Time Analyzed	08/26/2002 00:15	08/25/2002 23:45	08/25/2002 18:39
Dilution Factor	10.0000	2.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		12.6	0.00	ND		2.51	0.00	ND		1.26	0.00
Acetonitrile	75-05-8	ND		53.4	0.00	ND		10.7	0.00	ND		5.34	0.00
Acrolein	107-02-8	ND	UJ	28.4	0.00	ND	UJ	5.69	0.00	ND	UJ	2.84	0.00
Acrylonitrile	107-13-1	ND		2.90	0.00	ND		0.580	0.00	ND		0.290	0.00
Benzene	71-43-2	ND		0.465	0.00	ND	UJ	0.0930	0.00	0.130	J	0.0465	0.00
Bromobenzene	108-86-1	ND		0.643	0.00	ND		0.129	0.00	ND		0.0643	0.00
Bromochloromethane	74-97-5	ND		0.449	0.00	ND		0.0898	0.00	ND		0.0449	0.00
Bromodichloromethane	75-27-4	ND		0.528	0.00	ND		0.106	0.00	ND		0.0528	0.00
Bromoform	75-25-2	ND	UJ	1.06	0.00	ND	UJ	0.212	0.00	ND	UJ	0.106	0.00
Bromomethane	74-83-9	ND		0.454	0.00	ND		0.0908	0.00	ND		0.0454	0.00
2-Butanone (MEK)	78-93-3	ND		28.3	0.00	ND		5.66	0.00	ND		2.83	0.00
n-Butylbenzene	104-51-8	ND		0.888	0.00	ND		0.178	0.00	ND		0.0888	0.00
sec-Butylbenzene	135-98-8	ND		1.04	0.00	ND		0.208	0.00	ND		0.104	0.00
tert-Butylbenzene	98-06-6	ND		0.934	0.00	ND		0.187	0.00	ND		0.0934	0.00
Carbon disulfide	75-15-0	~~ND~~	R	~~0.415~~	~~0.00~~	~~ND~~	R	~~0.0830~~	~~0.00~~	~~ND~~	R	~~0.0415~~	~~0.00~~
Carbon tetrachloride	56-23-5	ND		0.553	0.00	ND		0.111	0.00	ND		0.0553	0.00
2-Chloro-1,3-butadiene	126-99-8	ND		0.596	0.00	ND		0.119	0.00	ND		0.0596	0.00
Chlorobenzene	108-90-7	ND		0.404	0.00	ND		0.0808	0.00	ND		0.0404	0.00
Chloroethane	75-00-3	ND		0.755	0.00	ND	UJ	0.151	0.00	ND		0.0755	0.00
Chloroform	67-66-3	ND		0.338	0.00	ND		0.0676	0.00	ND		0.0338	0.00
1-Chlorohexane	544-10-5	ND		0.798	0.00	ND		0.160	0.00	ND		0.0798	0.00

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ECTION IV
nalytical Results

S-VOA
N8260B

Client Sample ID	0802 HBWW 213	0802 HBWW 214	0802 HBWW 215
Lab Sample ID	2020814706	2020814702	2020814701

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND		0.509	0.00	ND		0.102	0.00	ND		0.0509	0.00
3-Chloropropene	107-05-1	ND		0.785	0.00	ND		0.157	0.00	ND		0.0785	0.00
2-Chlorotoluene	95-49-8	ND		0.359	0.00	ND		0.0718	0.00	ND		0.0359	0.00
4-Chlorotoluene	106-43-4	ND		0.684	0.00	ND		0.137	0.00	ND		0.0684	0.00
1,2-Dibromo-3-chloropropane	96-12-8	ND		7.77	0.00	ND		1.55	0.00	ND		0.777	0.00
Dibromochloromethane	124-48-1	ND		0.946	0.00	ND		0.189	0.00	ND		0.0946	0.00
1,2-Dibromoethane	106-93-4	ND		0.895	0.00	ND		0.179	0.00	ND		0.0895	0.00
Dibromomethane	74-95-3	ND		0.550	0.00	ND		0.110	0.00	ND		0.0550	0.00
trans-1,4-Dichloro-2-butene	110-57-6	ND		0.596	0.00	ND		0.119	0.00	ND		0.0596	0.00
1,4-Dichlorobenzene	106-46-7	ND		0.495	0.00	ND		0.0990	0.00	ND		0.0495	0.00
1,2-Dichlorobenzene	95-50-1	ND		0.596	0.00	ND		0.119	0.00	ND		0.0596	0.00
1,3-Dichlorobenzene	541-73-1	ND		0.591	0.00	ND		0.118	0.00	ND		0.0591	0.00
Dichlorodifluoromethane	75-71-8	~~ND~~	R	~~0.930~~	~~0.00~~	~~ND~~	R	~~0.186~~	~~0.00~~	~~ND~~	R	~~0.0930~~	~~0.00~~
1,1-Dichloroethane	75-34-3	130		0.445	0.00	99.1		0.0890	0.00	3.51		0.0445	0.00
1,2-Dichloroethane	107-06-2	ND		0.632	0.00	0.269	J	0.126	0.00	ND		0.0632	0.00
1,1-Dichloroethene	75-35-4	382		0.492	0.00	11.6		0.0984	0.00	2.97		0.0492	0.00
cis-1,2-Dichloroethene	156-59-2	32.2		0.353	0.00	7.73		0.0706	0.00	0.131	J	0.0353	0.00
trans-1,2-Dichloroethene	156-60-5	ND		0.430	0.00	0.333	J	0.0860	0.00	ND		0.0430	0.00
1,2-Dichloropropane	78-87-5	ND		0.519	0.00	ND		0.104	0.00	ND		0.0519	0.00
1,3-Dichloropropane	142-28-9	ND		0.401	0.00	ND		0.0802	0.00	ND		0.0401	0.00
2,2-Dichloropropane	594-20-7	ND		0.492	0.00	ND		0.0984	0.00	ND		0.0492	0.00
1,1-Dichloropropene	563-58-6	ND		0.374	0.00	ND		0.0748	0.00	ND		0.0374	0.00
cis-1,3-Dichloropropene	10061-01-5	ND		0.526	0.00	ND		0.105	0.00	ND		0.0526	0.00
trans-1,3-Dichloropropene	10061-02-6	ND		0.486	0.00	ND		0.0972	0.00	ND		0.0486	0.00
Ethyl methacrylate	97-63-2	ND		0.822	0.00	ND		0.164	0.00	ND		0.0822	0.00
Ethylbenzene	100-41-4	ND		0.469	0.00	ND		0.0938	0.00	ND		0.0469	0.00
Hexachloro-1,3-butadiene	87-68-3	ND	UJ	1.55	0.00	ND	UJ	0.310	0.00	ND	UJ	0.155	0.00
2-Hexanone	591-78-6	ND		8.38	0.00	ND		1.68	0.00	ND		0.838	0.00

modified by URS-Radian based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

ECTION IV
nalytical Results

IS-VOA
W8260B

Client Sample ID	0802 HBWW 213	0802 HBWW 214	0802 HBWW 215
Lab Sample ID	2020814706	2020814702	2020814701

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND		0.452	0.00	ND		0.0904	0.00	ND		0.0452	0.00
Isopropylbenzene	98-82-8	ND		0.769	0.00	ND		0.154	0.00	ND		0.0769	0.00
4-Isopropyltoluene	99-87-6	ND		0.899	0.00	ND		0.180	0.00	ND		0.0899	0.00
Methyl methacrylate	80-62-6	ND		1.75	0.00	ND		0.350	0.00	ND		0.175	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.619	0.00	ND		0.124	0.00	ND		0.0619	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		4.73	0.00	ND		0.945	0.00	ND		0.473	0.00
Methylene chloride	75-09-2	ND		0.210	0.00	ND		0.0420	0.00	ND		0.0210	0.00
Naphthalene	91-20-3	ND	UJ	0.708	0.00	ND	UJ	0.142	0.00	ND	UJ	0.0708	0.00
Propanenitrile	107-12-0	ND		6.52	0.00	ND		1.30	0.00	ND		0.652	0.00
n-Propylbenzene	103-65-1	ND		0.698	0.00	ND		0.140	0.00	ND		0.0698	0.00
Styrene	100-42-5	ND		0.295	0.00	ND		0.0590	0.00	ND		0.0295	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.578	0.00	ND		0.116	0.00	ND		0.0578	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND		1.09	0.00	ND		0.217	0.00	ND		0.109	0.00
Tetrachloroethene	127-18-4	32.4		1.03	0.00	ND		0.206	0.00	ND		0.103	0.00
Tetrahydrofuran	109-99-9	ND		12.8	0.00	ND		2.55	0.00	ND		1.28	0.00
Toluene	108-88-3	ND		0.236	0.00	ND		0.0472	0.00	ND		0.0236	0.00
1,2,3-Trichlorobenzene	87-61-6	ND	UJ	1.10	0.00	ND	UJ	0.219	0.00	ND	UJ	0.110	0.00
1,2,4-Trichlorobenzene	120-82-1	ND	UJ	1.40	0.00	ND	UJ	0.281	0.00	ND	UJ	0.140	0.00
1,1,1-Trichloroethane	71-55-6	ND		0.511	0.00	ND		0.102	0.00	0.406	J	0.0511	0.00
1,1,2-Trichloroethane	79-00-5	ND		0.489	0.00	ND		0.0978	0.00	ND		0.0489	0.00
Trichloroethene	79-01-6	384	~~B~~	0.506	0.00	0.102 U	~~B~~ ND	~~0.101~~ e	0.00	0.476 U	~~B~~ ND	~~0.0506~~ e	0.00
Trichlorofluoromethane	75-69-4	ND		0.495	0.00	ND		0.0990	0.00	ND		0.0495	0.00
1,2,3-Trichloropropane	96-18-4	ND		1.17	0.00	ND		0.234	0.00	ND		0.117	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.529	0.00	ND		0.106	0.00	ND		0.0529	0.00
1,2,4-Trimethylbenzene	95-63-6	ND		0.744	0.00	ND		0.149	0.00	ND		0.0744	0.00
1,3,5-Trimethylbenzene	108-67-8	ND		0.616	0.00	ND		0.123	0.00	ND		0.0616	0.00
Vinyl acetate	108-05-4	~~ND~~	R	~~1.72~~	~~0.00~~	~~ND~~	R	~~0.345~~	~~0.00~~	~~ND~~	R	~~0.172~~	~~0.00~~
Vinyl chloride	75-01-4	15.3		0.501	0.00	6.90		0.100	0.00	ND		0.0501	0.00

[redacted] based on the results of the data review [redacted], whi[redacted] [redacted] the Na[redacted] Functi[redacted] udeli[redacted] Orga[redacted] Inorg[redacted] ata Re[redacted]

ECTION IV
nalytical Results

IS-VOA
W8260B

Client Sample ID	0802 HBWW 213	0802 HBWW 214	0802 HBWW 215
Lab Sample ID	2020814706	2020814702	2020814701

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
p-Xylene/m-Xylene	106-42-3	ND		0.869	0.00	ND		0.174	0.00	ND		0.0869	0.00
o-Xylene	95-47-6	ND		0.409	0.00	ND		0.0818	0.00	ND		0.0409	0.00

based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

ECTION IV
nalytical Results
urrogates

S-VOA
N8260B

Client Sample ID	0802 HBWW 213	0802 HBWW 214	0802 HBWW 215
Lab Sample ID	2020814706	2020814702	2020814701
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 08:42	08/21/2002 09:08	08/21/2002 08:54
Date/Time Prepared	08/26/2002 00:15	08/25/2002 23:45	08/25/2002 18:39
Date/Time Analyzed	08/26/2002 00:15	08/25/2002 23:45	08/25/2002 18:39
Dilution Factor	10.0000	2.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	**% Recovery**	**Limits**	**F**	**% Recovery**	**Limits**	**F**	**% Recovery**	**Limits**	**F**
1-Bromo-4-fluorobenzene	100	77-117		102	77-117		100	77-117	
1,2-Dichloroethane-d4	90	61-143		89	61-143		91	61-143	
Toluene-d8	98	87-113		97	87-113		98	87-113	

[redacted] on the [redacted] of the [redacted] review [redacted]s, whi[redacted]odele[redacted] the N[redacted] Funct[redacted] Guideli[redacted] Organic and Inorganic Data Review [redacted]

:CTION IV
ıalytical Results

3-VOA
V8260B

Client Sample ID	0802 HBWW 227	0802 HBWW 227	0802 HBWW 228
Lab Sample ID	2020814704	2020814704	2020814703
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 10:05	08/21/2002 10:05	08/21/2002 09:55
Date/Time Prepared	08/26/2002 01:16	08/26/2002 07:20	08/26/2002 00:46
Date/Time Analyzed	08/26/2002 01:16	08/26/2002 07:20	08/26/2002 00:46
Dilution Factor	100.0000	10.0000	1000.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	~~ND~~	R	~~126~~	~~0.00~~	53.7	J	12.6	0.00	~~ND~~	R	~~1260~~	~~0.00~~
Acetonitrile	75-05-8	ND		534	0.00	ND		53.4	0.00	ND		5340	0.00
Acrolein	107-02-8	ND		284	0.00	ND	UJ	28.4	0.00	ND		2840	0.00
Acrylonitrile	107-13-1	ND		29.0	0.00	ND		2.90	0.00	ND		290	0.00
Benzene	71-43-2	ND		4.65	0.00	1.18	J	0.465	0.00	ND		46.5	0.00
Bromobenzene	108-86-1	ND		6.43	0.00	ND		0.643	0.00	ND		64.3	0.00
Bromochloromethane	74-97-5	ND		4.49	0.00	ND		0.449	0.00	ND		44.9	0.00
Bromodichloromethane	75-27-4	ND		5.28	0.00	ND		0.528	0.00	ND		52.8	0.00
Bromoform	75-25-2	ND		10.6	0.00	ND		1.06	0.00	ND		106	0.00
Bromomethane	74-83-9	ND		4.54	0.00	ND		0.454	0.00	ND		45.4	0.00
2-Butanone (MEK)	78-93-3	ND		283	0.00	ND		28.3	0.00	ND		2830	0.00
n-Butylbenzene	104-51-8	ND		8.88	0.00	ND		0.888	0.00	ND		88.8	0.00
sec-Butylbenzene	135-98-8	ND		10.4	0.00	ND		1.04	0.00	ND		104	0.00
tert-Butylbenzene	98-06-6	ND		9.34	0.00	ND		0.934	0.00	ND		93.4	0.00
Carbon disulfide	75-15-0	ND		4.15	0.00	~~ND~~	R	~~0.415~~	~~0.00~~	ND		41.5	0.00
Carbon tetrachloride	56-23-5	ND		5.53	0.00	ND		0.553	0.00	ND		55.3	0.00
2-Chloro-1,3-butadiene	126-99-8	ND		5.96	0.00	ND		0.596	0.00	ND		59.6	0.00
Chlorobenzene	108-90-7	ND		4.04	0.00	ND		0.404	0.00	ND		40.4	0.00
Chloroethane	75-00-3	435		7.55	0.00	350		0.755	0.00	ND		75.5	0.00
Chloroform	67-66-3	ND		3.38	0.00	2.29	J	0.338	0.00	ND		33.8	0.00
1-Chlorohexane	544-10-5	ND		7.98	0.00	ND		0.798	0.00	ND		79.8	0.00

[illegible] modified by URS-Radian based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

:CTION IV
ıalytical Results

S-VOA
N8260B

Client Sample ID	0802 HBWW 227	0802 HBWW 227	0802 HBWW 228
Lab Sample ID	2020814704	2020814704	2020814703

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND	R	5.09	0.00	ND		0.509	0.00	ND	R	50.9	0.00
3-Chloropropene	107-05-1	ND		7.85	0.00	ND		0.785	0.00	ND		78.5	0.00
2-Chlorotoluene	95-49-8	ND		3.59	0.00	ND		0.359	0.00	ND		35.9	0.00
4-Chlorotoluene	106-43-4	ND		6.84	0.00	ND		0.684	0.00	ND		68.4	0.00
1,2-Dibromo-3-chloropropane	96-12-8	ND		77.7	0.00	ND		7.77	0.00	ND		777	0.00
Dibromochloromethane	124-48-1	ND		9.46	0.00	ND		0.946	0.00	ND		94.6	0.00
1,2-Dibromoethane	106-93-4	ND		8.95	0.00	ND		0.895	0.00	ND		89.5	0.00
Dibromomethane	74-95-3	ND		5.50	0.00	ND		0.550	0.00	ND		55.0	0.00
trans-1,4-Dichloro-2-butene	110-57-6	ND		5.96	0.00	ND		0.596	0.00	ND		59.6	0.00
1,4-Dichlorobenzene	106-46-7	ND		4.95	0.00	ND		0.495	0.00	ND		49.5	0.00
1,2-Dichlorobenzene	95-50-1	ND		5.96	0.00	ND		0.596	0.00	ND		59.6	0.00
1,3-Dichlorobenzene	541-73-1	ND		5.91	0.00	ND		0.591	0.00	ND		59.1	0.00
Dichlorodifluoromethane	75-71-8	ND		9.30	0.00	ND	R	0.930	0.00	ND		93.0	0.00
1,1-Dichloroethane	75-34-3	3270		4.45	0.00	2260	ER	0.445	0.00	15700		44.5	0.00
1,2-Dichloroethane	107-06-2	35.4	R	6.32	0.00	27.4	J	0.632	0.00	ND	R	63.2	0.00
1,1-Dichloroethene	75-35-4	1850		4.92	0.00	1440	ER	0.492	0.00	92600		49.2	0.00
cis-1,2-Dichloroethene	156-59-2	1130	R	3.53	0.00	924		0.353	0.00	3650	R	35.3	0.00
trans-1,2-Dichloroethene	156-60-5	131	R	4.30	0.00	11.4		0.430	0.00	ND		43.0	0.00
1,2-Dichloropropane	78-87-5	ND		5.19	0.00	ND		0.519	0.00	ND		51.9	0.00
1,3-Dichloropropane	142-28-9	ND		4.01	0.00	ND		0.401	0.00	ND		40.1	0.00
2,2-Dichloropropane	594-20-7	ND		4.92	0.00	ND		0.492	0.00	ND		49.2	0.00
1,1-Dichloropropene	563-58-6	ND		3.74	0.00	ND		0.374	0.00	ND		37.4	0.00
cis-1,3-Dichloropropene	10061-01-5	ND		5.26	0.00	ND		0.526	0.00	ND		52.6	0.00
trans-1,3-Dichloropropene	10061-02-6	ND		4.86	0.00	ND		0.486	0.00	ND		48.6	0.00
Ethyl methacrylate	97-63-2	ND		8.22	0.00	ND		0.822	0.00	ND		82.2	0.00
Ethylbenzene	100-11-4	ND		4.69	0.00	1.27	J	0.469	0.00	645		46.9	0.00
Hexachloro-1,3-butadiene	87-68-3	ND		15.5	0.00	ND	UJ	1.55	0.00	ND		155	0.00
2-Hexanone	591-78-6	ND		83.8	0.00	ND		8.38	0.00	ND		838	0.00

[redacted] the Na[redacted] Functi[redacted] Guidelin[redacted] Organic and Inorganic Data Review [redacted] based on the results of the [redacted] review [redacted], whi[redacted] odele[redacted] [redacted]

:CTION IV
ıalytical Results

3-VOA
V8260B

Client Sample ID	0802 HBWW 227	0802 HBWW 227	0802 HBWW 228
Lab Sample ID	2020814704	2020814704	2020814703

:ontinued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
odomethane	74-88-4	~~ND~~	R	~~4.52~~	~~0.00~~	ND		0.452	0.00	~~ND~~	R	~~45.2~~	~~0.00~~
sopropylbenzene	98-82-8	ND		7.69	0.00	ND		0.769	0.00	ND		76.9	0.00
1-Isopropyltoluene	99-87-6	ND		8.99	0.00	ND		0.899	0.00	ND		89.9	0.00
Methyl methacrylate	80-62-6	ND		17.5	0.00	ND		1.75	0.00	ND		175	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		6.19	0.00	ND		0.619	0.00	ND		61.9	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		47.3	0.00	ND		4.73	0.00	ND		473	0.00
Methylene chloride	75-09-2	7.29	J	2.10	0.00	3.06 U	J ND	~~0.210~~ R	0.00	93.7	J	21.0	0.00
Naphthalene	91-20-3	ND		7.08	0.00	ND	UJ	0.708	0.00	ND		70.8	0.00
Propanenitrile	107-12-0	ND		65.2	0.00	ND		6.52	0.00	ND		652	0.00
n-Propylbenzene	103-65-1	ND		6.98	0.00	ND		0.698	0.00	215	J	69.8	0.00
Styrene	100-42-5	ND		2.95	0.00	ND		0.295	0.00	ND		29.5	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND		5.78	0.00	ND		0.578	0.00	ND		57.8	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND		10.9	0.00	ND		1.09	0.00	ND		109	0.00
Tetrachloroethene	127-18-4	ND		10.3	0.00	ND		1.03	0.00	ND		103	0.00
Tetrahydrofuran	109-99-9	ND		128	0.00	ND		12.8	0.00	ND		1280	0.00
Toluene	108-88-3	50.2		2.36	0.00	40.3		0.236	0.00	1840		23.6	0.00
1,2,3-Trichlorobenzene	87-61-6	ND		11.0	0.00	ND	UJ	1.10	0.00	ND		110	0.00
1,2,4-Trichlorobenzene	120-82-1	~~ND~~		~~14.0~~	~~0.00~~	ND	UJ	1.40	0.00	~~ND~~		~~140~~	~~0.00~~
1,1,1-Trichloroethane	71-55-6	6160		5.11	0.00	~~3960~~	~~E~~R	~~0.511~~	~~0.00~~	80600		51.1	0.00
1,1,2-Trichloroethane	79-00-5	~~ND~~	R	~~4.89~~	~~0.00~~	4.76	J	0.489	0.00	~~ND~~	R	~~48.9~~	~~0.00~~
Trichloroethene	79-01-6	89.3	~~B~~	5.06	0.00	76.3	~~B~~	0.506	0.00	19000	~~B~~	50.6	0.00
Trichlorofluoromethane	75-69-4	ND		4.95	0.00	ND		0.495	0.00	~~ND~~	R	~~49.5~~	~~0.00~~
1,2,3-Trichloropropane	96-18-4	ND		11.7	0.00	ND		1.17	0.00	ND		117	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		5.29	0.00	ND		0.529	0.00	ND		52.9	0.00
1,2,4-Trimethylbenzene	95-63-6	ND		7.44	0.00	ND		0.744	0.00	1420		74.4	0.00
1,3,5-Trimethylbenzene	108-67-8	ND		6.16	0.00	ND		0.616	0.00	392	J	61.6	0.00
Vinyl acetate	108-05-4	~~ND~~	R	~~17.2~~	~~0.00~~	~~ND~~	R	~~1.72~~	~~0.00~~	ND		172	0.00
Vinyl chloride	75-01-4	13.6	J	~~5.01~~	~~0.00~~	16.2		0.501	0.00	~~220~~	J	~~504~~	~~0.00~~

Flagged by URS Radian based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

:CTION IV
ıalytical Results

ɜ-VOA
V8260B

Client Sample ID	0802 HBWW 227	0802 HBWW 227	0802 HBWW 228
Lab Sample ID	2020814704	2020814704	2020814703

:ontinued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
ɔ-Xylene/m-Xylene	106-42-3	~~ND~~	R	~~8.69~~	~~0.00~~	2.84	J	0.869	0.00	1770	R	~~86.9~~	~~0.00~~
ɔ-Xylene	95-47-6	~~ND~~	R	~~4.09~~	~~0.00~~	3.26	J	0.409	0.00	1490	R	~~40.9~~	~~0.00~~

[redacted] Radian [redacted] on the [redacted] of the [redacted] view [redacted], whi[redacted] deled [redacted] *he Na[redacted] Functi[redacted] Guidelines for Organic and Inorganic Data Review* [redacted]

:CTION IV
ıalytical Results
ırrogates

S-VOA
N8260B

Client Sample ID	0802 HBWW 227	0802 HBWW 227	0802 HBWW 228
Lab Sample ID	2020814704	2020814704	2020814703
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 10:05	08/21/2002 10:05	08/21/2002 09:55
Date/Time Prepared	08/26/2002 01:16	08/26/2002 07:20	08/26/2002 00:46
Date/Time Analyzed	08/26/2002 01:16	08/26/2002 07:20	08/26/2002 00:46
Dilution Factor	100.0000	10.0000	1000.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	101	77-117		102	77-117		103	77-117	
1,2-Dichloroethane-d4	87	61-143		66	61-143		85	61-143	
Toluene-d8	97	87-113		97	87-113		98	87-113	

based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

:CTION IV
ıalytical Results

S-VOA
N8260B

Client Sample ID	0802 HBWW 228	0802 HBWW 999	0802 HBWW 999
Lab Sample ID	2020814703	2020814705	2020814705
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 09:55	08/21/2002 10:00	08/21/2002 10:00
Date/Time Prepared	08/26/2002 07:50	08/25/2002 19:10	08/26/2002 11:58
Date/Time Analyzed	08/26/2002 07:50	08/25/2002 19:10	08/26/2002 11:58
Dilution Factor	50.0000	1.0000	2.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	652	J	62.8	0.00	ND		1.26	0.00	ND	R	~~2.51~~	~~0.00~~
Acetonitrile	75-05-8	ND	UJ	267	0.00	ND		5.34	0.00	ND		10.7	0.00
Acrolein	107-02-8	ND		142	0.00	ND	UJ	2.84	0.00	ND		5.69	0.00
Acrylonitrile	107-13-1	ND		14.5	0.00	ND		0.290	0.00	ND		0.580	0.00
Benzene	71-43-2	61.2	J	2.32	0.00	0.237	J	0.0465	0.00	0.230	J	0.0930	0.00
Bromobenzene	108-86-1	ND	UJ	3.22	0.00	ND		0.0643	0.00	ND		0.129	0.00
Bromochloromethane	74-97-5	ND		2.24	0.00	ND		0.0449	0.00	ND		0.0898	0.00
Bromodichloromethane	75-27-4	ND		2.64	0.00	ND		0.0528	0.00	ND		0.106	0.00
Bromoform	75-25-2	ND		5.30	0.00	ND	UJ	0.106	0.00	ND		0.212	0.00
Bromomethane	74-83-9	ND		2.27	0.00	ND		0.0454	0.00	ND		0.0908	0.00
2-Butanone (MEK)	78-93-3	1850	J	141	0.00	ND		2.83	0.00	ND		5.66	0.00
n-Butylbenzene	104-51-8	36.2	J	4.44	0.00	ND		0.0888	0.00	ND		0.178	0.00
sec-Butylbenzene	135-98-8	12.3	J	5.20	0.00	ND		0.104	0.00	ND		0.208	0.00
tert-Butylbenzene	98-06-6	ND	UJ	4.67	0.00	ND		0.0934	0.00	ND		0.187	0.00
Carbon disulfide	75-15-0	~~ND~~	R ~~UJ~~	~~2.08~~	~~0.00~~	~~ND~~	R	~~0.0415~~	~~0.00~~	ND		0.0830	0.00
Carbon tetrachloride	56-23-5	106	J	2.76	0.00	ND		0.0553	0.00	ND		0.11	0.00
2-Chloro-1,3-butadiene	126-99-8	ND	UJ	2.98	0.00	ND		0.0596	0.00	ND		0.119	0.00
Chlorobenzene	108-90-7	ND	UJ	2.02	0.00	ND		0.0404	0.00	ND		0.0808	0.00
Chloroethane	75-00-3	67.2	J	3.78	0.00	0.581	J	0.0755	0.00	ND		0.151	0.00
Chloroform	67-66-3	21.4	J	1.69	0.00	ND		0.0338	0.00	ND		0.0676	0.00
1-Chlorohexane	544-10-5	ND	UJ	3.99	0.00	ND		0.0798	0.00	ND		~~0.160~~	~~0.00~~

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:CTION IV
ıalytical Results

3-VOA
V8260B

Client Sample ID	0802 HBWW 228	0802 HBWW 999	0802 HBWW 999
Lab Sample ID	2020814703	2020814705	2020814705

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND	UJ	2.54	0.00	ND		0.0509	0.00	~~ND~~	R	~~0.102~~	~~0.00~~
3-Chloropropene	107-05-1	ND		3.92	0.00	ND		0.0785	0.00	ND		0.157	0.00
2-Chlorotoluene	95-49-8	ND		1.80	0.00	ND		0.0359	0.00	ND		0.0718	0.00
4-Chlorotoluene	106-43-4	ND		3.42	0.00	ND		0.0684	0.00	ND		0.137	0.00
1,2-Dibromo-3-chloropropane	96-12-8	ND		38.8	0.00	ND		0.777	0.00	ND		1.55	0.00
Dibromochloromethane	124-48-1	ND		4.73	0.00	ND		0.0946	0.00	ND		0.189	0.00
1,2-Dibromoethane	106-93-4	ND		4.48	0.00	ND		0.0895	0.00	ND		0.179	0.00
Dibromomethane	74-95-3	ND		2.75	0.00	ND		0.0550	0.00	ND		0.110	0.00
trans-1,4-Dichloro-2-butene	110-57-6	ND		2.98	0.00	ND		0.0596	0.00	ND		0.119	0.00
1,4-Dichlorobenzene	106-46-7	ND		2.48	0.00	ND		0.0495	0.00	ND		0.0990	0.00
1,2-Dichlorobenzene	95-50-1	ND		2.98	0.00	ND		0.0596	0.00	ND		0.119	0.00
1,3-Dichlorobenzene	541-73-1	ND		2.96	0.00	ND		0.0591	0.00	ND		0.118	0.00
Dichlorodifluoromethane	75-71-8	~~ND~~	R	~~4.65~~	~~0.00~~	~~ND~~	R	~~0.0930~~	~~0.00~~	~~ND~~		~~0.186~~	0.00
1,1-Dichloroethane	75-34-3	~~14500~~	~~ER~~	~~2.22~~	~~0.00~~	~~110~~	~~ER~~	~~0.0445~~	~~0.00~~	113		0.0890	0.00
1,2-Dichloroethane	107-06-2	279	J	3.16	0.00	0.387	J	0.0632	0.00	~~ND~~	R	~~0.126~~	~~0.00~~
1,1-Dichloroethene	75-35-4	~~31300~~	~~ER~~	~~2.46~~	~~0.00~~	13.6		0.0492	0.00	13.8		0.0984	0.00
cis-1,2-Dichloroethene	156-59-2	4500	J	1.76	0.00	8.92		0.0353	0.00	8.75		0.0706	0.00
trans-1,2-Dichloroethene	156-60-5	55.1	J	2.15	0.00	0.423	J	0.0430	0.00	0.373	J	0.0860	0.00
1,2-Dichloropropane	78-87-5	ND	UJ	2.60	0.00	ND		0.0519	0.00	ND		0.104	0.00
1,3-Dichloropropane	142-28-9	ND		2.00	0.00	ND		0.0401	0.00	ND		0.0802	0.00
2,2-Dichloropropane	594-20-7	ND		2.46	0.00	ND		0.0492	0.00	ND		0.0984	0.00
1,1-Dichloropropene	563-58-6	ND		1.87	0.00	ND		0.0374	0.00	ND		0.0748	0.00
cis-1,3-Dichloropropene	10061-01-5	ND		2.63	0.00	ND		0.0526	0.00	ND		0.105	0.00
trans-1,3-Dichloropropene	10061-02-6	ND		2.43	0.00	ND		0.0486	0.00	ND		0.0972	0.00
Ethyl methacrylate	97-63-2	ND		4.11	0.00	ND		0.0822	0.00	ND		0.164	0.00
Ethylbenzene	100-41-4	1180	J	2.34	0.00	ND		0.0469	0.00	ND		0.0938	0.00
Hexachloro-1,3-butadiene	87-68-3	ND	UJ	7.75	0.00	ND	UJ	0.155	0.00	ND		0.310	0.00
2-Hexanone	591-78-6	ND	UJ	41.9	0.00	ND		0.838	0.00	~~ND~~		~~1.68~~	~~0.00~~

Based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

ECTION IV
nalytical Results

S-VOA
W8260B

Client Sample ID	0802 HBWW 228	0802 HBWW 999	0802 HBWW 999
Lab Sample ID	2020814703	2020814705	2020814705

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND	UJ	2.26	0.00	ND		0.0452	0.00	~~ND~~	R	~~0.0904~~	~~0.00~~
Isopropylbenzene	98-82-8	74.0	J	3.84	0.00	ND		0.0769	0.00	ND		0.154	0.00
4-Isopropyltoluene	99-87-6	ND	UJ	4.50	0.00	ND		0.0899	0.00	ND		0.180	0.00
Methyl methacrylate	80-62-6	ND	UJ	8.76	0.00	ND		0.175	0.00	ND		0.350	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	17.5	J	3.10	0.00	ND		0.0619	0.00	ND		0.124	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND	UJ	23.6	0.00	ND		0.473	0.00	ND		0.945	0.00
Methylene chloride	75-09-2	17.2 UJ, ~~J~~ ND		~~1.05~~	0.00	ND		0.0210	0.00	ND		0.0420	0.00
Naphthalene	91-20-3	944	J	3.54	0.00	ND	UJ	0.0708	0.00	ND		0.142	0.00
Propanenitrile	107-12-0	ND	UJ	32.6	0.00	ND		0.652	0.00	ND		1.30	0.00
n-Propylbenzene	103-65-1	432	J	3.49	0.00	ND		0.0698	0.00	ND		0.140	0.00
Styrene	100-42-5	15.2	J	1.48	0.00	ND		0.0295	0.00	ND		0.0590	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND	UJ	2.89	0.00	ND		0.0578	0.00	ND		0.116	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND	UJ	5.43	0.00	ND		0.109	0.00	ND		0.217	0.00
Tetrachloroethene	127-18-4	97.1	J	5.14	0.00	ND		0.103	0.00	ND		0.206	0.00
Tetrahydrofuran	109-99-9	ND	UJ	63.8	0.00	ND		1.28	0.00	ND		2.55	0.00
Toluene	108-88-3	2920	J	1.18	0.00	ND		0.0236	0.00	ND		0.0472	0.00
1,2,3-Trichlorobenzene	87-61-6	ND	UJ	5.48	0.00	ND	UJ	0.110	0.00	ND		0.219	0.00
1,2,4-Trichlorobenzene	120-82-1	ND	UJ	7.02	0.00	ND	UJ	0.140	0.00	ND		0.281	0.00
1,1,1-Trichloroethane	71-55-6	~~51800~~	~~BR~~	~~2.56~~	~~0.00~~	ND		0.0511	0.00	0.475	J	0.102	0.00
1,1,2-Trichloroethane	79-00-5	112	J	2.44	0.00	ND		0.0489	0.00	ND		0.0978	0.00
Trichloroethene	79-01-6	~~20300~~	~~BDR~~	~~2.53~~	~~0.00~~	0.234 U, ~~B~~ND		~~0.0506~~	0.00	0.309	~~B~~	0.101	0.00
Trichlorofluoromethane	75-69-4	ND	UJ	2.48	0.00	ND		0.0495	0.00	ND		0.0990	0.00
1,2,3-Trichloropropane	96-18-4	ND		5.85	0.00	ND		0.117	0.00	ND		0.234	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		2.64	0.00	ND		0.0529	0.00	ND		0.106	0.00
1,2,4-Trimethylbenzene	95-63-6	2400	J	3.72	0.00	ND		0.0744	0.00	ND		0.149	0.00
1,3,5-Trimethylbenzene	108-67-8	622	J	3.08	0.00	ND		0.0616	0.00	ND		0.123	0.00
Vinyl acetate	108-05-4	~~ND~~	R	~~8.62~~	~~0.00~~	~~ND~~	R	~~0.172~~	~~0.00~~	ND		0.345	0.00
Vinyl chloride	75-01-4	363	J	2.50	0.00	8.49		0.0501	0.00	8.~~13~~		0.~~100~~	0.00

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CTION IV
alytical Results

S-VOA
V8260B

Client Sample ID	0802 HBWW 228	0802 HBWW 999	0802 HBWW 999
Lab Sample ID	2020814703	2020814705	2020814705

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
o-Xylene/m-Xylene	106-42-3	3090	J	4.34	0.00	ND		0.0869	0.00	~~ND~~	R	~~0.174~~	~~0.00~~
o-Xylene	95-47-6	2600	J	2.04	0.00	ND		0.0409	0.00	~~ND~~	R	~~0.0818~~	~~0.00~~

based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

ECTION IV
nalytical Results
urrogates

S-VOA
N8260B

Client Sample ID	0802 HBWW 228	0802 HBWW 999	0802 HBWW 999
Lab Sample ID	2020814703	2020814705	2020814705
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 09:55	08/21/2002 10:00	08/21/2002 10:00
Date/Time Prepared	08/26/2002 07:50	08/25/2002 19:10	08/26/2002 11:58
Date/Time Analyzed	08/26/2002 07:50	08/25/2002 19:10	08/26/2002 11:58
Dilution Factor	50.0000	1.0000	2.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	**% Recovery**	**Limits**	**F**	**% Recovery**	**Limits**	**F**	**% Recovery**	**Limits**	**F**
1-Bromo-4-fluorobenzene	105	77-117		102	77-117		99	77-117	
1,2-Dichloroethane-d4	19	61-143	Q	89	61-143		87	61-143	
Toluene-d8	98	87-113		98	87-113		98	87-113	

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ECTION IV
alytical Results

S-VOA
N8260B

Client Sample ID	TRIP BLANK-TB2		
Lab Sample ID	2020814707		
Matrix	Aqueous		
Reported As	RECEIVED		
% Moisture	NA		
Date/Time Collected	08/21/2002 00:00		
Date/Time Prepared	08/25/2002 17:37		
Date/Time Analyzed	08/25/2002 17:37		
Dilution Factor	1.0000		
Instrument	MSDA		
Units	ug/L		

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		1.26	0.00								
Acetonitrile	75-05-8	ND		5.34	0.00								
Acrolein	107-02-8	ND	UJ	2.84	0.00								
Acrylonitrile	107-13-1	ND		0.290	0.00								
Benzene	71-43-2	ND		0.0465	0.00								
Bromobenzene	108-86-1	ND		0.0643	0.00								
Bromochloromethane	74-97-5	ND		0.0449	0.00								
Bromodichloromethane	75-27-4	ND		0.0528	0.00								
Bromoform	75-25-2	ND	UJ	0.106	0.00								
Bromomethane	74-83-9	ND		0.0454	0.00								
2-Butanone (MEK)	78-93-3	ND		2.83	0.00								
n-Butylbenzene	104-51-8	ND		0.0888	0.00								
sec-Butylbenzene	135-98-8	ND		0.104	0.00								
tert-Butylbenzene	98-06-6	ND		0.0934	0.00								
Carbon disulfide	75-15-0	~~ND~~	R	~~0.0415~~	~~0.00~~								
Carbon tetrachloride	56-23-5	ND		0.0553	0.00								
2-Chloro-1,3-butadiene	126-99-8	ND		0.0596	0.00								
Chlorobenzene	108-90-7	ND		0.0404	0.00								
Chloroethane	75-00-3	ND		0.0755	0.00								
Chloroform	67-66-3	ND		0.0338	0.00								
1-Chlorohexane	544-10-5	ND		0.0798	0.00								

based on the results of the data review process, which is modeled after the National Functional Guidelines for Organic and Inorganic Data Review

CTION IV
alytical Results

S-VOA
V8260B

Client Sample ID	TRIP BLANK-TB2		
Lab Sample ID	2020814707		

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND		0.0509	0.00								
3-Chloropropene	107-05-1	ND		0.0785	0.00								
2-Chlorotoluene	95-49-8	ND		0.0359	0.00								
4-Chlorotoluene	106-43-4	ND		0.0684	0.00								
1,2-Dibromo-3-chloropropane	96-12-8	ND		0.777	0.00								
Dibromochloromethane	124-48-1	ND		0.0946	0.00								
1,2-Dibromoethane	106-93-4	ND		0.0895	0.00								
Dibromomethane	74-95-3	ND		0.0550	0.00								
trans-1,4-Dichloro-2-butene	110-57-6	ND		0.0596	0.00								
1,4-Dichlorobenzene	106-46-7	ND		0.0495	0.00								
1,2-Dichlorobenzene	95-50-1	ND		0.0596	0.00								
1,3-Dichlorobenzene	541-73-1	ND		0.0591	0.00								
Dichlorodifluoromethane	75-71-8	~~ND~~	R	~~0.0930~~	~~0.00~~								
1,1-Dichloroethane	75-34-3	ND		0.0445	0.00								
1,2-Dichloroethane	107-06-2	ND		0.0632	0.00								
1,1-Dichloroethene	75-35-4	ND		0.0492	0.00								
cis-1,2-Dichloroethene	156-59-2	ND		0.0353	0.00								
trans-1,2-Dichloroethene	156-60-5	ND		0.0430	0.00								
1,2-Dichloropropane	78-87-5	ND		0.0519	0.00								
1,3-Dichloropropane	142-28-9	ND		0.0401	0.00								
2,2-Dichloropropane	594-20-7	ND		0.0492	0.00								
1,1-Dichloropropene	563-58-6	ND		0.0374	0.00								
cis-1,3-Dichloropropene	10061-01-5	ND		0.0526	0.00								
trans-1,3-Dichloropropene	10061-02-6	ND		0.0486	0.00								
Ethyl methacrylate	97-63-2	ND		0.0822	0.00								
Ethylbenzene	100-41-4	ND		0.0469	0.00								
Hexachloro-1,3-butadiene	87-68-3	ND	UJ	0.155	0.00								
2-Hexanone	591-78-6	ND		0.838	0.00								

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CTION IV
alytical Results

S-VOA
V8260B

Client Sample ID	TRIP BLANK-TB2		
Lab Sample ID	2020814707		

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
odomethane	74-88-4	ND		0.0452	0.00								
sopropylbenzene	98-82-8	ND		0.0769	0.00								
l-Isopropyltoluene	99-87-6	ND		0.0899	0.00								
Methyl methacrylate	80-62-6	ND		0.175	0.00								
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.0619	0.00								
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		0.473	0.00								
Methylene chloride	75-09-2	0.380	J	0.0210	0.00								
Naphthalene	91-20-3	ND	UJ	0.0708	0.00								
Propanenitrile	107-12-0	ND		0.652	0.00								
n-Propylbenzene	103-65-1	ND		0.0698	0.00								
Styrene	100-42-5	ND		0.0295	0.00								
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.0578	0.00								
1,1,2,2-Tetrachloroethane	79-34-5	ND		0.109	0.00								
Tetrachloroethene	127-18-4	ND		0.103	0.00								
Tetrahydrofuran	109-99-9	ND		1.28	0.00								
Toluene	108-88-3	ND		0.0236	0.00								
1,2,3-Trichlorobenzene	87-61-6	ND	UJ	0.110	0.00								
1,2,4-Trichlorobenzene	120-82-1	ND	UJ	0.140	0.00								
1,1,1-Trichloroethane	71-55-6	ND		0.0511	0.00								
1,1,2-Trichloroethane	79-00-5	ND		0.0489	0.00								
Trichloroethene	79-01-6	0.0421	J VB	0.0506	0.00								
Trichlorofluoromethane	75-69-4	ND		0.0495	0.00								
1,2,3-Trichloropropane	96-18-4	ND		0.117	0.00								
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.0529	0.00								
1,2,4-Trimethylbenzene	95-63-6	ND		0.0744	0.00								
1,3,5-Trimethylbenzene	108-67-8	ND		0.0616	0.00								
Vinyl acetate	108-05-4	~~ND~~	R	~~0.172~~	~~0.00~~								
Vinyl chloride	75-01-4	ND		0.0501	0.00								

based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

:CTION IV
ıalytical Results

S-VOA
N8260B

Client Sample ID	TRIP BLANK-TB2		
Lab Sample ID	2020814707		

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
ɔ-Xylene/m-Xylene	106-42-3	ND		0.0869	0.00								
ɔ-Xylene	95-47-6	ND		0.0409	0.00								

[redacted] on the [redacted] of the [redacted] view [redacted], whic[redacted] deled [redacted] *ic Na[redacted]unctio[redacted]Guidelin[redacted] Organ[redacted] Inorganic Data Review* [redacted]

ECTION IV
nalytical Results
urrogates

IS-VOA
W8260B

Client Sample ID	TRIP BLANK-TB2		
Lab Sample ID	2020814707		
Matrix	Aqueous		
Reported As	RECEIVED		
% Moisture	NA		
Date/Time Collected	08/21/2002 00:00		
Date/Time Prepared	08/25/2002 17:37		
Date/Time Analyzed	08/25/2002 17:37		
Dilution Factor	1.0000		
Instrument	MSDA		
Units	ug/L		

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	102	77-117							
1,2-Dichloroethane-d4	90	61-143							
Toluene-d8	100	87-113							

...ified by HRS-Radian based on the results of the data review process, which is modeled after *the National Functional Guidelines for Organic and Inorganic Data Review*

LABORATORY REPORTS

STL Austin

Laboratory Analysis Report

August 26, 2002

Martha Meyers-Lee
URS Corporation
1600 Perimeter Park Dr.
Morrisville, NC 27560

(919)461-1519 (Business)

RE: Laboratory Reference: 80396913 [20208147] Hamilton Beach-Proctor Silex

Dear Martha Meyers-Lee:

STL Austin received samples with a request for the analytical fractions listed below. Except as noted in the QCER(s) all laboratory quality control parameters were met. These data have been reviewed and released by the person below. Results for the indicated analytical fractions and associated quality control data are enclosed in this report.

Fraction	Status	Reported	Approval Signature - Title
MS-VOA	ENCLOSED	08/26/2002	Caulk Shelly VM 8/27/02

The report is provided as indicated in the Table of Contents (Page i) and it is followed by Appendix A which includes any additional information associated with the report. This report must not be reproduced, except in full, without the written approval of the laboratory.

STL Austin appreciates your business and looks forward to serving you again. If you have any questions about your report or need any additional information, please call me at (512)310-5249 or fax inquiries to (512)244-0160.

Sincerely,

Linda Voigt for
Jane Lindsey
Client Services/Project Manager

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SECTION II
Report Summaries

MS-VOA

Client Name: Hamilton Beach-Proctor Silex
Client Code: HB-PS

Project Name: 80396913 [20208147] Hamilton Beach-Proctor Silex
Facility Name: NC

Workorder Summary

Client Sample ID	Lab Sample ID	Sample Matrix	Method Citation	Method Description
0802 HBWW 215	2020814701	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 214	2020814702	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 228	2020814703	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 227	2020814704	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 999	2020814705	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 213	2020814706	Aqueous	SW8260B	Volatiles by GC/MS
TRIP BLANK-TB2	2020814707	Aqueous	SW8260B	Volatiles by GC/MS

Protocol Summary

Client Sample ID	Lab Sample ID	Date & Time Collected	Date & Time Received	Prep Batch ID	Date & Time Prepared	Analysis Batch ID	Date & Time Analyzed	Hold Time Spec Prep Spec	Hold Time Spec Prep Actual	Hold Time Spec Analysis Spec	Hold Time Spec Analysis Actual
Method: SW8260B											
0802 HBWW 215	2020814701	08/21/02 08:54	08/22/02 08:00	37728	08/25/02 18:39	37728	08/25/02 18:39	7D	4D	7D	4D
0802 HBWW 214	2020814702	08/21/02 09:08	08/22/02 08:00	37728	08/25/02 23:45	37728	08/25/02 23:45	7D	4D	7D	4D
0802 HBWW 228	2020814703	08/21/02 09:55	08/22/02 08:00	37728	08/26/02 00:46	37728	08/26/02 00:46	7D	5D	7D	5D
0802 HBWW 228	2020814703	08/21/02 09:55	08/22/02 08:00	37728	08/26/02 07:50	37728	08/26/02 07:50	7D	5D	7D	5D
0802 HBWW 227	2020814704	08/21/02 10:05	08/22/02 08:00	37728	08/26/02 01:16	37728	08/26/02 01:16	7D	5D	7D	5D
0802 HBWW 227	2020814704	08/21/02 10:05	08/22/02 08:00	37728	08/26/02 07:20	37728	08/26/02 07:20	7D	5D	7D	5D
0802 HBWW 999	2020814705	08/21/02 10:00	08/22/02 08:00	37728	08/25/02 19:10	37728	08/25/02 19:10	7D	4D	7D	4D

MS-VOA

Protocol Summary continued -

Client Sample ID	Lab Sample ID	Date & Time Collected	Date & Time Received	Prep Batch ID	Date & Time Prepared	Analysis Batch ID	Date & Time Analyzed	Hold Time Spec Prep Spec	Hold Time Spec Prep Actual	Hold Time Spec Analysis Spec	Hold Time Spec Analysis Actual
Method: SW8260B continued -											
0802 HBWW 999	2020814705	08/21/02 10:00	08/22/02 08:00	37728	08/26/02 11:58	37728	08/26/02 11:58	7D	5D	7D	5D
0802 HBWW 213	2020814706	08/21/02 08:42	08/22/02 08:00	37728	08/26/02 00:15	37728	08/26/02 00:15	7D	5D	7D	5D
TRIP BLANK-TB2	2020814707	08/21/02 00:00	08/22/02 08:00	37728	08/25/02 17:37	37728	08/25/02 17:37	7D	4D	7D	4D

SECTION III
Comments and Flag Definitions

MS-VOA

Standard Data Qualifiers

Flag	Definition
B	Analyte detected in method blank and concentration > MDL
E	Analyte concentration exceeded calibration range
J	Result > or = MDL and <PQL
NA	Not analyzed/Not available
ND	Not detected at the specified reporting limit
Q	Result does not meet tolerance in Protocol Specification
R	Result reported elsewhere
U	Result less than sample specific method detection limit

Analyst Comments

Flag	Affected Sample	Method	Comment
	0802 HBWW 228	SW8260B	See QCER 5765.

Sample Condition Comments

Affected Sample	Comment

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 213	0802 HBWW 214	0802 HBWW 215
Lab Sample ID	2020814706	2020814702	2020814701
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 08:42	08/21/2002 09:08	08/21/2002 08:54
Date/Time Prepared	08/26/2002 00:15	08/25/2002 23:45	08/25/2002 18:39
Date/Time Analyzed	08/26/2002 00:15	08/25/2002 23:45	08/25/2002 18:39
Dilution Factor	10.0000	2.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		12.6	0.00	ND		2.51	0.00	ND		1.26	0.00
Acetonitrile	75-05-8	ND		53.4	0.00	ND		10.7	0.00	ND		5.34	0.00
Acrolein	107-02-8	ND		28.4	0.00	ND		5.69	0.00	ND		2.84	0.00
Acrylonitrile	107-13-1	ND		2.90	0.00	ND		0.580	0.00	ND		0.290	0.00
Benzene	71-43-2	ND		0.465	0.00	ND		0.0930	0.00	0.130	J	0.0465	0.00
Bromobenzene	108-86-1	ND		0.643	0.00	ND		0.129	0.00	ND		0.0643	0.00
Bromochloromethane	74-97-5	ND		0.449	0.00	ND		0.0898	0.00	ND		0.0449	0.00
Bromodichloromethane	75-27-4	ND		0.528	0.00	ND		0.106	0.00	ND		0.0528	0.00
Bromoform	75-25-2	ND		1.06	0.00	ND		0.212	0.00	ND		0.106	0.00
Bromomethane	74-83-9	ND		0.454	0.00	ND		0.0908	0.00	ND		0.0454	0.00
2-Butanone (MEK)	78-93-3	ND		28.3	0.00	ND		5.66	0.00	ND		2.83	0.00
n-Butylbenzene	104-51-8	ND		0.888	0.00	ND		0.178	0.00	ND		0.0888	0.00
sec-Butylbenzene	135-98-8	ND		1.04	0.00	ND		0.208	0.00	ND		0.104	0.00
tert-Butylbenzene	98-06-6	ND		0.934	0.00	ND		0.187	0.00	ND		0.0934	0.00
Carbon disulfide	75-15-0	ND		0.415	0.00	ND		0.0830	0.00	ND		0.0415	0.00
Carbon tetrachloride	56-23-5	ND		0.553	0.00	ND		0.111	0.00	ND		0.0553	0.00
2-Chloro-1,3-butadiene	126-99-8	ND		0.596	0.00	ND		0.119	0.00	ND		0.0596	0.00
Chlorobenzene	108-90-7	ND		0.404	0.00	ND		0.0808	0.00	ND		0.0404	0.00
Chloroethane	75-00-3	ND		0.755	0.00	ND		0.151	0.00	ND		0.0755	0.00
Chloroform	67-66-3	ND		0.338	0.00	ND		0.0676	0.00	ND		0.0338	0.00
1-Chlorohexane	544-10-5	ND		0.798	0.00	ND		0.160	0.00	ND		0.0798	0.00

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 213	0802 HBWW 214	0802 HBWW 215
Lab Sample ID	2020814706	2020814702	2020814701

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND		0.509	0.00	ND		0.102	0.00	ND		0.0509	0.00
3-Chloropropene	107-05-1	ND		0.785	0.00	ND		0.157	0.00	ND		0.0785	0.00
2-Chlorotoluene	95-49-8	ND		0.359	0.00	ND		0.0718	0.00	ND		0.0359	0.00
4-Chlorotoluene	106-43-4	ND		0.684	0.00	ND		0.137	0.00	ND		0.0684	0.00
1,2-Dibromo-3-chloropropane	96-12-8	ND		7.77	0.00	ND		1.55	0.00	ND		0.777	0.00
Dibromochloromethane	124-48-1	ND		0.946	0.00	ND		0.189	0.00	ND		0.0946	0.00
1,2-Dibromoethane	106-93-4	ND		0.895	0.00	ND		0.179	0.00	ND		0.0895	0.00
Dibromomethane	74-95-3	ND		0.550	0.00	ND		0.110	0.00	ND		0.0550	0.00
trans-1,4-Dichloro-2-butene	110-57-6	ND		0.596	0.00	ND		0.119	0.00	ND		0.0596	0.00
1,4-Dichlorobenzene	106-46-7	ND		0.495	0.00	ND		0.0990	0.00	ND		0.0495	0.00
1,2-Dichlorobenzene	95-50-1	ND		0.596	0.00	ND		0.119	0.00	ND		0.0596	0.00
1,3-Dichlorobenzene	541-73-1	ND		0.591	0.00	ND		0.118	0.00	ND		0.0591	0.00
Dichlorodifluoromethane	75-71-8	ND		0.930	0.00	ND		0.186	0.00	ND		0.0930	0.00
1,1-Dichloroethane	75-34-3	130		0.445	0.00	99.1		0.0890	0.00	3.51		0.0445	0.00
1,2-Dichloroethane	107-06-2	ND		0.632	0.00	0.269	J	0.126	0.00	ND		0.0632	0.00
1,1-Dichloroethene	75-35-4	382		0.492	0.00	11.6		0.0984	0.00	2.97		0.0492	0.00
cis-1,2-Dichloroethene	156-59-2	32.2		0.353	0.00	7.73		0.0706	0.00	0.131	J	0.0353	0.00
trans-1,2-Dichloroethene	156-60-5	ND		0.430	0.00	0.333	J	0.0860	0.00	ND		0.0430	0.00
1,2-Dichloropropane	78-87-5	ND		0.519	0.00	ND		0.104	0.00	ND		0.0519	0.00
1,3-Dichloropropane	142-28-9	ND		0.401	0.00	ND		0.0802	0.00	ND		0.0401	0.00
2,2-Dichloropropane	594-20-7	ND		0.492	0.00	ND		0.0984	0.00	ND		0.0492	0.00
1,1-Dichloropropene	563-58-6	ND		0.374	0.00	ND		0.0748	0.00	ND		0.0374	0.00
cis-1,3-Dichloropropene	10061-01-5	ND		0.526	0.00	ND		0.105	0.00	ND		0.0526	0.00
trans-1,3-Dichloropropene	10061-02-6	ND		0.486	0.00	ND		0.0972	0.00	ND		0.0486	0.00
Ethyl methacrylate	97-63-2	ND		0.822	0.00	ND		0.164	0.00	ND		0.0822	0.00
Ethylbenzene	100-41-4	ND		0.469	0.00	ND		0.0938	0.00	ND		0.0469	0.00
Hexachloro-1,3-butadiene	87-68-3	ND		1.55	0.00	ND		0.310	0.00	ND		0.155	0.00
2-Hexanone	591-78-6	ND		8.38	0.00	ND		1.68	0.00	ND		0.838	0.00

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 213	0802 HBWW 214	0802 HBWW 215
Lab Sample ID	2020814706	2020814702	2020814701

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND		0.452	0.00	ND		0.0904	0.00	ND		0.0452	0.00
Isopropylbenzene	98-82-8	ND		0.769	0.00	ND		0.154	0.00	ND		0.0769	0.00
4-Isopropyltoluene	99-87-6	ND		0.899	0.00	ND		0.180	0.00	ND		0.0899	0.00
Methyl methacrylate	80-62-6	ND		1.75	0.00	ND		0.350	0.00	ND		0.175	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.619	0.00	ND		0.124	0.00	ND		0.0619	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		4.73	0.00	ND		0.945	0.00	ND		0.473	0.00
Methylene chloride	75-09-2	ND		0.210	0.00	ND		0.0420	0.00	ND		0.0210	0.00
Naphthalene	91-20-3	ND		0.708	0.00	ND		0.142	0.00	ND		0.0708	0.00
Propanenitrile	107-12-0	ND		6.52	0.00	ND		1.30	0.00	ND		0.652	0.00
n-Propylbenzene	103-65-1	ND		0.698	0.00	ND		0.140	0.00	ND		0.0698	0.00
Styrene	100-42-5	ND		0.295	0.00	ND		0.0590	0.00	ND		0.0295	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.578	0.00	ND		0.116	0.00	ND		0.0578	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND		1.09	0.00	ND		0.217	0.00	ND		0.109	0.00
Tetrachloroethene	127-18-4	32.4		1.03	0.00	ND		0.206	0.00	ND		0.103	0.00
Tetrahydrofuran	109-99-9	ND		12.8	0.00	ND		2.55	0.00	ND		1.28	0.00
Toluene	108-88-3	ND		0.236	0.00	ND		0.0472	0.00	ND		0.0236	0.00
1,2,3-Trichlorobenzene	87-61-6	ND		1.10	0.00	ND		0.219	0.00	ND		0.110	0.00
1,2,4-Trichlorobenzene	120-82-1	ND		1.40	0.00	ND		0.281	0.00	ND		0.140	0.00
1,1,1-Trichloroethane	71-55-6	ND		0.511	0.00	ND		0.102	0.00	0.406	J	0.0511	0.00
1,1,2-Trichloroethane	79-00-5	ND		0.489	0.00	ND		0.0978	0.00	ND		0.0489	0.00
Trichloroethene	79-01-6	384	B	0.506	0.00	0.102	JB	0.101	0.00	0.476	JB	0.0506	0.00
Trichlorofluoromethane	75-69-4	ND		0.495	0.00	ND		0.0990	0.00	ND		0.0495	0.00
1,2,3-Trichloropropane	96-18-4	ND		1.17	0.00	ND		0.234	0.00	ND		0.117	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.529	0.00	ND		0.106	0.00	ND		0.0529	0.00
1,2,4-Trimethylbenzene	95-63-6	ND		0.744	0.00	ND		0.149	0.00	ND		0.0744	0.00
1,3,5-Trimethylbenzene	108-67-8	ND		0.616	0.00	ND		0.123	0.00	ND		0.0616	0.00
Vinyl acetate	108-05-4	ND		1.72	0.00	ND		0.345	0.00	ND		0.172	0.00
Vinyl chloride	75-01-4	15.3		0.501	0.00	6.90		0.100	0.00	ND		0.0501	0.00

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 213	0802 HBWW 214	0802 HBWW 215
Lab Sample ID	2020814706	2020814702	2020814701

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
p-Xylene/m-Xylene	106-42-3	ND		0.869	0.00	ND		0.174	0.00	ND		0.0869	0.00
o-Xylene	95-47-6	ND		0.409	0.00	ND		0.0818	0.00	ND		0.0409	0.00

SECTION IV
Analytical Results
Surrogates

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 213	0802 HBWW 214	0802 HBWW 215
Lab Sample ID	2020814706	2020814702	2020814701
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 08:42	08/21/2002 09:08	08/21/2002 08:54
Date/Time Prepared	08/26/2002 00:15	08/25/2002 23:45	08/25/2002 18:39
Date/Time Analyzed	08/26/2002 00:15	08/25/2002 23:45	08/25/2002 18:39
Dilution Factor	10.0000	2.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	100	77-117		102	77-117		100	77-117	
1,2-Dichloroethane-d4	90	61-143		89	61-143		91	61-143	
Toluene-d8	98	87-113		97	87-113		98	87-113	

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 227	0802 HBWW 227	0802 HBWW 228
Lab Sample ID	2020814704	2020814704	2020814703
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 10:05	08/21/2002 10:05	08/21/2002 09:55
Date/Time Prepared	08/26/2002 01:16	08/26/2002 07:20	08/26/2002 00:46
Date/Time Analyzed	08/26/2002 01:16	08/26/2002 07:20	08/26/2002 00:46
Dilution Factor	100.0000	10.0000	1000.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		126	0.00	53.7		12.6	0.00	ND		1260	0.00
Acetonitrile	75-05-8	ND		534	0.00	ND		53.4	0.00	ND		5340	0.00
Acrolein	107-02-8	ND		284	0.00	ND		28.4	0.00	ND		2840	0.00
Acrylonitrile	107-13-1	ND		29.0	0.00	ND		2.90	0.00	ND		290	0.00
Benzene	71-43-2	ND		4.65	0.00	1.18	J	0.465	0.00	ND		46.5	0.00
Bromobenzene	108-86-1	ND		6.43	0.00	ND		0.643	0.00	ND		64.3	0.00
Bromochloromethane	74-97-5	ND		4.49	0.00	ND		0.449	0.00	ND		44.9	0.00
Bromodichloromethane	75-27-4	ND		5.28	0.00	ND		0.528	0.00	ND		52.8	0.00
Bromoform	75-25-2	ND		10.6	0.00	ND		1.06	0.00	ND		106	0.00
Bromomethane	74-83-9	ND		4.54	0.00	ND		0.454	0.00	ND		45.4	0.00
2-Butanone (MEK)	78-93-3	ND		283	0.00	ND		28.3	0.00	ND		2830	0.00
n-Butylbenzene	104-51-8	ND		8.88	0.00	ND		0.888	0.00	ND		88.8	0.00
sec-Butylbenzene	135-98-8	ND		10.4	0.00	ND		1.04	0.00	ND		104	0.00
tert-Butylbenzene	98-06-6	ND		9.34	0.00	ND		0.934	0.00	ND		93.4	0.00
Carbon disulfide	75-15-0	ND		4.15	0.00	ND		0.415	0.00	ND		41.5	0.00
Carbon tetrachloride	56-23-5	ND		5.53	0.00	ND		0.553	0.00	ND		55.3	0.00
2-Chloro-1,3-butadiene	126-99-8	ND		5.96	0.00	ND		0.596	0.00	ND		59.6	0.00
Chlorobenzene	108-90-7	ND		4.04	0.00	ND		0.404	0.00	ND		40.4	0.00
Chloroethane	75-00-3	435		7.55	0.00	350		0.755	0.00	ND		75.5	0.00
Chloroform	67-66-3	ND		3.38	0.00	2.29	J	0.338	0.00	ND		33.8	0.00
1-Chlorohexane	544-10-5	ND		7.98	0.00	ND		0.798	0.00	ND		79.8	0.00

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 227	0802 HBWW 227	0802 HBWW 228
Lab Sample ID	2020814704	2020814704	2020814703

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND		5.09	0.00	ND		0.509	0.00	ND		50.9	0.00
3-Chloropropene	107-05-1	ND		7.85	0.00	ND		0.785	0.00	ND		78.5	0.00
2-Chlorotoluene	95-49-8	ND		3.59	0.00	ND		0.359	0.00	ND		35.9	0.00
4-Chlorotoluene	106-43-4	ND		6.84	0.00	ND		0.684	0.00	ND		68.4	0.00
1,2-Dibromo-3-chloropropane	96-12-8	ND		77.7	0.00	ND		7.77	0.00	ND		777	0.00
Dibromochloromethane	124-48-1	ND		9.46	0.00	ND		0.946	0.00	ND		94.6	0.00
1,2-Dibromoethane	106-93-4	ND		8.95	0.00	ND		0.895	0.00	ND		89.5	0.00
Dibromomethane	74-95-3	ND		5.50	0.00	ND		0.550	0.00	ND		55.0	0.00
trans-1,4-Dichloro-2-butene	110-57-6	ND		5.96	0.00	ND		0.596	0.00	ND		59.6	0.00
1,4-Dichlorobenzene	106-46-7	ND		4.95	0.00	ND		0.495	0.00	ND		49.5	0.00
1,2-Dichlorobenzene	95-50-1	ND		5.96	0.00	ND		0.596	0.00	ND		59.6	0.00
1,3-Dichlorobenzene	541-73-1	ND		5.91	0.00	ND		0.591	0.00	ND		59.1	0.00
Dichlorodifluoromethane	75-71-8	ND		9.30	0.00	ND		0.930	0.00	ND		93.0	0.00
1,1-Dichloroethane	75-34-3	3270		4.45	0.00	2260	ER	0.445	0.00	15700		44.5	0.00
1,2-Dichloroethane	107-06-2	35.4	J	6.32	0.00	27.4		0.632	0.00	ND		63.2	0.00
1,1-Dichloroethene	75-35-4	1850		4.92	0.00	1440	ER	0.492	0.00	92600		49.2	0.00
cis-1,2-Dichloroethene	156-59-2	1130		3.53	0.00	924		0.353	0.00	3660		35.3	0.00
trans-1,2-Dichloroethene	156-60-5	13.1	J	4.30	0.00	11.4		0.430	0.00	ND		43.0	0.00
1,2-Dichloropropane	78-87-5	ND		5.19	0.00	ND		0.519	0.00	ND		51.9	0.00
1,3-Dichloropropane	142-28-9	ND		4.01	0.00	ND		0.401	0.00	ND		40.1	0.00
2,2-Dichloropropane	594-20-7	ND		4.92	0.00	ND		0.492	0.00	ND		49.2	0.00
1,1-Dichloropropene	563-58-6	ND		3.74	0.00	ND		0.374	0.00	ND		37.4	0.00
cis-1,3-Dichloropropene	10061-01-5	ND		5.26	0.00	ND		0.526	0.00	ND		52.6	0.00
trans-1,3-Dichloropropene	10061-02-6	ND		4.86	0.00	ND		0.486	0.00	ND		48.6	0.00
Ethyl methacrylate	97-63-2	ND		8.22	0.00	ND		0.822	0.00	ND		82.2	0.00
Ethylbenzene	100-41-4	ND		4.69	0.00	1.27	J	0.469	0.00	645		46.9	0.00
Hexachloro-1,3-butadiene	87-68-3	ND		15.5	0.00	ND		1.55	0.00	ND		155	0.00
2-Hexanone	591-78-6	ND		83.8	0.00	ND		8.38	0.00	ND		838	0.00

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 227	0802 HBWW 227	0802 HBWW 228
Lab Sample ID	2020814704	2020814704	2020814703

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND		4.52	0.00	ND		0.452	0.00	ND		45.2	0.00
Isopropylbenzene	98-82-8	ND		7.69	0.00	ND		0.769	0.00	ND		76.9	0.00
4-Isopropyltoluene	99-87-6	ND		8.99	0.00	ND		0.899	0.00	ND		89.9	0.00
Methyl methacrylate	80-62-6	ND		17.5	0.00	ND		1.75	0.00	ND		175	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		6.19	0.00	ND		0.619	0.00	ND		61.9	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		47.3	0.00	ND		4.73	0.00	ND		473	0.00
Methylene chloride	75-09-2	7.29	J	2.10	0.00	3.06	J	0.210	0.00	93.7	J	21.0	0.00
Naphthalene	91-20-3	ND		7.08	0.00	ND		0.708	0.00	ND		70.8	0.00
Propanenitrile	107-12-0	ND		65.2	0.00	ND		6.52	0.00	ND		652	0.00
n-Propylbenzene	103-65-1	ND		6.98	0.00	ND		0.698	0.00	215	J	69.8	0.00
Styrene	100-42-5	ND		2.95	0.00	ND		0.295	0.00	ND		29.5	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND		5.78	0.00	ND		0.578	0.00	ND		57.8	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND		10.9	0.00	ND		1.09	0.00	ND		109	0.00
Tetrachloroethene	127-18-4	ND		10.3	0.00	ND		1.03	0.00	ND		103	0.00
Tetrahydrofuran	109-99-9	ND		128	0.00	ND		12.8	0.00	ND		1280	0.00
Toluene	108-88-3	50.2		2.36	0.00	40.3		0.236	0.00	1840		23.6	0.00
1,2,3-Trichlorobenzene	87-61-6	ND		11.0	0.00	ND		1.10	0.00	ND		110	0.00
1,2,4-Trichlorobenzene	120-82-1	ND		14.0	0.00	ND		1.40	0.00	ND		140	0.00
1,1,1-Trichloroethane	71-55-6	6160		5.11	0.00	3960	ER	0.511	0.00	80600		51.1	0.00
1,1,2-Trichloroethane	79-00-5	ND		4.89	0.00	4.76	J	0.489	0.00	ND		48.9	0.00
Trichloroethene	79-01-6	89.5	B	5.06	0.00	76.3	B	0.506	0.00	19000	B	50.6	0.00
Trichlorofluoromethane	75-69-4	ND		4.95	0.00	ND		0.495	0.00	ND		49.5	0.00
1,2,3-Trichloropropane	96-18-4	ND		11.7	0.00	ND		1.17	0.00	ND		117	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		5.29	0.00	ND		0.529	0.00	ND		52.9	0.00
1,2,4-Trimethylbenzene	95-63-6	ND		7.44	0.00	ND		0.744	0.00	1420		74.4	0.00
1,3,5-Trimethylbenzene	108-67-8	ND		6.16	0.00	ND		0.616	0.00	392	J	61.6	0.00
Vinyl acetate	108-05-4	ND		17.2	0.00	ND		1.72	0.00	ND		172	0.00
Vinyl chloride	75-01-4	13.6	J	5.01	0.00	16.2		0.501	0.00	220	J	50.1	0.00

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 227	0802 HBWW 227	0802 HBWW 228
Lab Sample ID	2020814704	2020814704	2020814703

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
p-Xylene/m-Xylene	106-42-3	ND		8.69	0.00	2.84	J	0.869	0.00	1770		86.9	0.00
o-Xylene	95-47-6	ND		4.09	0.00	3.26	J	0.409	0.00	1490		40.9	0.00

SECTION IV
Analytical Results
Surrogates

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 227	0802 HBWW 227	0802 HBWW 228
Lab Sample ID	2020814704	2020814704	2020814703
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 10:05	08/21/2002 10:05	08/21/2002 09:55
Date/Time Prepared	08/26/2002 01:16	08/26/2002 07:20	08/26/2002 00:46
Date/Time Analyzed	08/26/2002 01:16	08/26/2002 07:20	08/26/2002 00:46
Dilution Factor	100.0000	10.0000	1000.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	101	77-117		102	77-117		103	77-117	
1,2-Dichloroethane-d4	87	61-143		66	61-143		85	61-143	
Toluene-d8	97	87-113		97	87-113		98	87-113	

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 228	0802 HBWW 999	0802 HBWW 999
Lab Sample ID	2020814703	2020814705	2020814705
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 09:55	08/21/2002 10:00	08/21/2002 10:00
Date/Time Prepared	08/26/2002 07:50	08/25/2002 19:10	08/26/2002 11:58
Date/Time Analyzed	08/26/2002 07:50	08/25/2002 19:10	08/26/2002 11:58
Dilution Factor	50.0000	1.0000	2.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	652		62.8	0.00	ND		1.26	0.00	ND		2.51	0.00
Acetonitrile	75-05-8	ND		267	0.00	ND		5.34	0.00	ND		10.7	0.00
Acrolein	107-02-8	ND		142	0.00	ND		2.84	0.00	ND		5.69	0.00
Acrylonitrile	107-13-1	ND		14.5	0.00	ND		0.290	0.00	ND		0.580	0.00
Benzene	71-43-2	61.2		2.32	0.00	0.237	J	0.0465	0.00	0.230	J	0.0930	0.00
Bromobenzene	108-86-1	ND		3.22	0.00	ND		0.0643	0.00	ND		0.129	0.00
Bromochloromethane	74-97-5	ND		2.24	0.00	ND		0.0449	0.00	ND		0.0898	0.00
Bromodichloromethane	75-27-4	ND		2.64	0.00	ND		0.0528	0.00	ND		0.106	0.00
Bromoform	75-25-2	ND		5.30	0.00	ND		0.106	0.00	ND		0.212	0.00
Bromomethane	74-83-9	ND		2.27	0.00	ND		0.0454	0.00	ND		0.0908	0.00
2-Butanone (MEK)	78-93-3	1850		141	0.00	ND		2.83	0.00	ND		5.66	0.00
n-Butylbenzene	104-51-8	36.2	J	4.44	0.00	ND		0.0888	0.00	ND		0.178	0.00
sec-Butylbenzene	135-98-8	12.3	J	5.20	0.00	ND		0.104	0.00	ND		0.208	0.00
tert-Butylbenzene	98-06-6	ND		4.67	0.00	ND		0.0934	0.00	ND		0.187	0.00
Carbon disulfide	75-15-0	ND		2.08	0.00	ND		0.0415	0.00	ND		0.0830	0.00
Carbon tetrachloride	56-23-5	106		2.76	0.00	ND		0.0553	0.00	ND		0.111	0.00
2-Chloro-1,3-butadiene	126-99-8	ND		2.98	0.00	ND		0.0596	0.00	ND		0.119	0.00
Chlorobenzene	108-90-7	ND		2.02	0.00	ND		0.0404	0.00	ND		0.0808	0.00
Chloroethane	75-00-3	67.2		3.78	0.00	0.581		0.0755	0.00	ND		0.151	0.00
Chloroform	67-66-3	21.4	J	1.69	0.00	ND		0.0338	0.00	ND		0.0676	0.00
1-Chlorohexane	544-10-5	ND		3.99	0.00	ND		0.0798	0.00	ND		0.160	0.00

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 228	0802 HBWW 999	0802 HBWW 999
Lab Sample ID	2020814703	2020814705	2020814705

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND		2.54	0.00	ND		0.0509	0.00	ND		0.102	0.00
3-Chloropropene	107-05-1	ND		3.92	0.00	ND		0.0785	0.00	ND		0.157	0.00
2-Chlorotoluene	95-49-8	ND		1.80	0.00	ND		0.0359	0.00	ND		0.0718	0.00
4-Chlorotoluene	106-43-4	ND		3.42	0.00	ND		0.0684	0.00	ND		0.137	0.00
1,2-Dibromo-3-chloropropane	96-12-8	ND		38.8	0.00	ND		0.777	0.00	ND		1.55	0.00
Dibromochloromethane	124-48-1	ND		4.73	0.00	ND		0.0946	0.00	ND		0.189	0.00
1,2-Dibromoethane	106-93-4	ND		4.48	0.00	ND		0.0895	0.00	ND		0.179	0.00
Dibromomethane	74-95-3	ND		2.75	0.00	ND		0.0550	0.00	ND		0.110	0.00
trans-1,4-Dichloro-2-butene	110-57-6	ND		2.98	0.00	ND		0.0596	0.00	ND		0.119	0.00
1,4-Dichlorobenzene	106-46-7	ND		2.48	0.00	ND		0.0495	0.00	ND		0.0990	0.00
1,2-Dichlorobenzene	95-50-1	ND		2.98	0.00	ND		0.0596	0.00	ND		0.119	0.00
1,3-Dichlorobenzene	541-73-1	ND		2.96	0.00	ND		0.0591	0.00	ND		0.118	0.00
Dichlorodifluoromethane	75-71-8	ND		4.65	0.00	ND		0.0930	0.00	ND		0.186	0.00
1,1-Dichloroethane	75-34-3	14500	ER	2.22	0.00	110	ER	0.0445	0.00	113		0.0890	0.00
1,2-Dichloroethane	107-06-2	279		3.16	0.00	0.387	J	0.0632	0.00	ND		0.126	0.00
1,1-Dichloroethene	75-35-4	31300	ER	2.46	0.00	13.6		0.0492	0.00	13.8		0.0984	0.00
cis-1,2-Dichloroethene	156-59-2	4500		1.76	0.00	8.92		0.0353	0.00	8.75		0.0706	0.00
trans-1,2-Dichloroethene	156-60-5	55.1		2.15	0.00	0.423	J	0.0430	0.00	0.373	J	0.0860	0.00
1,2-Dichloropropane	78-87-5	ND		2.60	0.00	ND		0.0519	0.00	ND		0.104	0.00
1,3-Dichloropropane	142-28-9	ND		2.00	0.00	ND		0.0401	0.00	ND		0.0802	0.00
2,2-Dichloropropane	594-20-7	ND		2.46	0.00	ND		0.0492	0.00	ND		0.0984	0.00
1,1-Dichloropropene	563-58-6	ND		1.87	0.00	ND		0.0374	0.00	ND		0.0748	0.00
cis-1,3-Dichloropropene	10061-01-5	ND		2.63	0.00	ND		0.0526	0.00	ND		0.105	0.00
trans-1,3-Dichloropropene	10061-02-6	ND		2.43	0.00	ND		0.0486	0.00	ND		0.0972	0.00
Ethyl methacrylate	97-63-2	ND		4.11	0.00	ND		0.0822	0.00	ND		0.164	0.00
Ethylbenzene	100-41-4	1180		2.34	0.00	ND		0.0469	0.00	ND		0.0938	0.00
Hexachloro-1,3-butadiene	87-68-3	ND		7.75	0.00	ND		0.155	0.00	ND		0.310	0.00
2-Hexanone	591-78-6	ND		41.9	0.00	ND		0.838	0.00	ND		1.68	0.00

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 228				0802 HBWW 999				0802 HBWW 999			
Lab Sample ID	2020814703				2020814705				2020814705			

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND		2.26	0.00	ND		0.0452	0.00	ND		0.0904	0.00
Isopropylbenzene	98-82-8	74.0		3.84	0.00	ND		0.0769	0.00	ND		0.154	0.00
4-Isopropyltoluene	99-87-6	ND		4.50	0.00	ND		0.0899	0.00	ND		0.180	0.00
Methyl methacrylate	80-62-6	ND		8.76	0.00	ND		0.175	0.00	ND		0.350	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	17.5	J	3.10	0.00	ND		0.0619	0.00	ND		0.124	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		23.6	0.00	ND		0.473	0.00	ND		0.945	0.00
Methylene chloride	75-09-2	17.2	J	1.05	0.00	ND		0.0210	0.00	ND		0.0420	0.00
Naphthalene	91-20-3	944		3.54	0.00	ND		0.0708	0.00	ND		0.142	0.00
Propanenitrile	107-12-0	ND		32.6	0.00	ND		0.652	0.00	ND		1.30	0.00
n-Propylbenzene	103-65-1	432		3.49	0.00	ND		0.0698	0.00	ND		0.140	0.00
Styrene	100-42-5	15.2	J	1.48	0.00	ND		0.0295	0.00	ND		0.0590	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND		2.89	0.00	ND		0.0578	0.00	ND		0.116	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND		5.43	0.00	ND		0.109	0.00	ND		0.217	0.00
Tetrachloroethene	127-18-4	97.1		5.14	0.00	ND		0.103	0.00	ND		0.206	0.00
Tetrahydrofuran	109-99-9	ND		63.8	0.00	ND		1.28	0.00	ND		2.55	0.00
Toluene	108-88-3	2920		1.18	0.00	ND		0.0236	0.00	ND		0.0472	0.00
1,2,3-Trichlorobenzene	87-61-6	ND		5.48	0.00	ND		0.110	0.00	ND		0.219	0.00
1,2,4-Trichlorobenzene	120-82-1	ND		7.02	0.00	ND		0.140	0.00	ND		0.281	0.00
1,1,1-Trichloroethane	71-55-6	51800	ER	2.56	0.00	ND		0.0511	0.00	0.475	J	0.102	0.00
1,1,2-Trichloroethane	79-00-5	112		2.44	0.00	ND		0.0489	0.00	ND		0.0978	0.00
Trichloroethene	79-01-6	20300	BER	2.53	0.00	0.234	JB	0.0506	0.00	0.309	JB	0.101	0.00
Trichlorofluoromethane	75-69-4	ND		2.48	0.00	ND		0.0495	0.00	ND		0.0990	0.00
1,2,3-Trichloropropane	96-18-4	ND		5.85	0.00	ND		0.117	0.00	ND		0.234	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		2.64	0.00	ND		0.0529	0.00	ND		0.106	0.00
1,2,4-Trimethylbenzene	95-63-6	2400		3.72	0.00	ND		0.0744	0.00	ND		0.149	0.00
1,3,5-Trimethylbenzene	108-67-8	622		3.08	0.00	ND		0.0616	0.00	ND		0.123	0.00
Vinyl acetate	108-05-4	ND		8.62	0.00	ND		0.172	0.00	ND		0.345	0.00
Vinyl chloride	75-01-4	363		2.50	0.00	8.49		0.0501	0.00	8.13		0.100	0.00

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 228	0802 HBWW 999	0802 HBWW 999
Lab Sample ID	2020814703	2020814705	2020814705

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
p-Xylene/m-Xylene	106-42-3	3090		4.34	0.00	ND		0.0869	0.00	ND		0.174	0.00
o-Xylene	95-47-6	2600		2.04	0.00	ND		0.0409	0.00	ND		0.0818	0.00

SECTION IV
Analytical Results
Surrogates

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 228	0802 HBWW 999	0802 HBWW 999
Lab Sample ID	2020814703	2020814705	2020814705
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/21/2002 09:55	08/21/2002 10:00	08/21/2002 10:00
Date/Time Prepared	08/26/2002 07:50	08/25/2002 19:10	08/26/2002 11:58
Date/Time Analyzed	08/26/2002 07:50	08/25/2002 19:10	08/26/2002 11:58
Dilution Factor	50.0000	1.0000	2.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	105	77-117		102	77-117		99	77-117	
1,2-Dichloroethane-d4	19	61-143	Q	89	61-143		87	61-143	
Toluene-d8	98	87-113		98	87-113		98	87-113	

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	TRIP BLANK-TB2		
Lab Sample ID	2020814707		
Matrix	Aqueous		
Reported As	RECEIVED		
% Moisture	NA		
Date/Time Collected	08/21/2002 00:00		
Date/Time Prepared	08/25/2002 17:37		
Date/Time Analyzed	08/25/2002 17:37		
Dilution Factor	1.0000		
Instrument	MSDA		
Units	ug/L		

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		1.26	0.00								
Acetonitrile	75-05-8	ND		5.34	0.00								
Acrolein	107-02-8	ND		2.84	0.00								
Acrylonitrile	107-13-1	ND		0.290	0.00								
Benzene	71-43-2	ND		0.0465	0.00								
Bromobenzene	108-86-1	ND		0.0643	0.00								
Bromochloromethane	74-97-5	ND		0.0449	0.00								
Bromodichloromethane	75-27-4	ND		0.0528	0.00								
Bromoform	75-25-2	ND		0.106	0.00								
Bromomethane	74-83-9	ND		0.0454	0.00								
2-Butanone (MEK)	78-93-3	ND		2.83	0.00								
n-Butylbenzene	104-51-8	ND		0.0888	0.00								
sec-Butylbenzene	135-98-8	ND		0.104	0.00								
tert-Butylbenzene	98-06-6	ND		0.0934	0.00								
Carbon disulfide	75-15-0	ND		0.0415	0.00								
Carbon tetrachloride	56-23-5	ND		0.0553	0.00								
2-Chloro-1,3-butadiene	126-99-8	ND		0.0596	0.00								
Chlorobenzene	108-90-7	ND		0.0404	0.00								
Chloroethane	75-00-3	ND		0.0755	0.00								
Chloroform	67-66-3	ND		0.0338	0.00								
1-Chlorohexane	544-10-5	ND		0.0798	0.00								

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	TRIP BLANK-TB2		
Lab Sample ID	2020814707		

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND		0.0509	0.00								
3-Chloropropene	107-05-1	ND		0.0785	0.00								
2-Chlorotoluene	95-49-8	ND		0.0359	0.00								
4-Chlorotoluene	106-43-4	ND		0.0684	0.00								
1,2-Dibromo-3-chloropropane	96-12-8	ND		0.777	0.00								
Dibromochloromethane	124-48-1	ND		0.0946	0.00								
1,2-Dibromoethane	106-93-4	ND		0.0895	0.00								
Dibromomethane	74-95-3	ND		0.0550	0.00								
trans-1,4-Dichloro-2-butene	110-57-6	ND		0.0596	0.00								
1,4-Dichlorobenzene	106-46-7	ND		0.0495	0.00								
1,2-Dichlorobenzene	95-50-1	ND		0.0596	0.00								
1,3-Dichlorobenzene	541-73-1	ND		0.0591	0.00								
Dichlorodifluoromethane	75-71-8	ND		0.0930	0.00								
1,1-Dichloroethane	75-34-3	ND		0.0445	0.00								
1,2-Dichloroethane	107-06-2	ND		0.0632	0.00								
1,1-Dichloroethene	75-35-4	ND		0.0492	0.00								
cis-1,2-Dichloroethene	156-59-2	ND		0.0353	0.00								
trans-1,2-Dichloroethene	156-60-5	ND		0.0430	0.00								
1,2-Dichloropropane	78-87-5	ND		0.0519	0.00								
1,3-Dichloropropane	142-28-9	ND		0.0401	0.00								
2,2-Dichloropropane	594-20-7	ND		0.0492	0.00								
1,1-Dichloropropene	563-58-6	ND		0.0374	0.00								
cis-1,3-Dichloropropene	10061-01-5	ND		0.0526	0.00								
trans-1,3-Dichloropropene	10061-02-6	ND		0.0486	0.00								
Ethyl methacrylate	97-63-2	ND		0.0822	0.00								
Ethylbenzene	100-41-4	ND		0.0469	0.00								
Hexachloro-1,3-butadiene	87-68-3	ND		0.155	0.00								
2-Hexanone	591-78-6	ND		0.838	0.00								

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	TRIP BLANK-TB2		
Lab Sample ID	2020814707		

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND		0.0452	0.00								
Isopropylbenzene	98-82-8	ND		0.0769	0.00								
4-Isopropyltoluene	99-87-6	ND		0.0899	0.00								
Methyl methacrylate	80-62-6	ND		0.175	0.00								
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.0619	0.00								
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		0.473	0.00								
Methylene chloride	75-09-2	0.380	J	0.0210	0.00								
Naphthalene	91-20-3	ND		0.0708	0.00								
Propanenitrile	107-12-0	ND		0.652	0.00								
n-Propylbenzene	103-65-1	ND		0.0698	0.00								
Styrene	100-42-5	ND		0.0295	0.00								
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.0578	0.00								
1,1,2,2-Tetrachloroethane	79-34-5	ND		0.109	0.00								
Tetrachloroethene	127-18-4	ND		0.103	0.00								
Tetrahydrofuran	109-99-9	ND		1.28	0.00								
Toluene	108-88-3	ND		0.0236	0.00								
1,2,3-Trichlorobenzene	87-61-6	ND		0.110	0.00								
1,2,4-Trichlorobenzene	120-82-1	ND		0.140	0.00								
1,1,1-Trichloroethane	71-55-6	ND		0.0511	0.00								
1,1,2-Trichloroethane	79-00-5	ND		0.0489	0.00								
Trichloroethene	79-01-6	0.0421	UB	0.0506	0.00								
Trichlorofluoromethane	75-69-4	ND		0.0495	0.00								
1,2,3-Trichloropropane	96-18-4	ND		0.117	0.00								
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.0529	0.00								
1,2,4-Trimethylbenzene	95-63-6	ND		0.0744	0.00								
1,3,5-Trimethylbenzene	108-67-8	ND		0.0616	0.00								
Vinyl acetate	108-05-4	ND		0.172	0.00								
Vinyl chloride	75-01-4	ND		0.0501	0.00								

MS-VOA
SW8260B

Client Sample ID	TRIP BLANK-TB2		
Lab Sample ID	2020814707		

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
p-Xylene/m-Xylene	106-42-3	ND		0.0869	0.00								
o-Xylene	95-47-6	ND		0.0409	0.00								

SECTION IV
Analytical Results
Surrogates

MS-VOA
SW8260B

Client Sample ID	TRIP BLANK-TB2		
Lab Sample ID	2020814707		
Matrix	Aqueous		
Reported As	RECEIVED		
% Moisture	NA		
Date/Time Collected	08/21/2002 00:00		
Date/Time Prepared	08/25/2002 17:37		
Date/Time Analyzed	08/25/2002 17:37		
Dilution Factor	1.0000		
Instrument	MSDA		
Units	ug/L		

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	102	77-117							
1,2-Dichloroethane-d4	90	61-143							
Toluene-d8	100	87-113							

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37728 **Instrument Data File:** A0825202.D **Date/Time Analyzed:**08/25/2002 14:32
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
Acetone	20	16.4		82		
Acetonitrile	100	127		127		
Acrolein	100	68.6		68		
Acrylonitrile	100	97.9		98		
Benzene	20	19.7		98		
Bromobenzene	20	19.1		95		
Bromochloromethane	20	17.9		90		
Bromodichloromethane	20	17.0		85		
Bromoform	20	15.5		78		
Bromomethane	20	20.2		101		
2-Butanone (MEK)	20	22.4		112		
n-Butylbenzene	20	21.9		110		
sec-Butylbenzene	20	21.6		108		
tert-Butylbenzene	20	20.0		100		
Carbon disulfide	20	14.1		71		
Carbon tetrachloride	20	17.0		85		
2-Chloro-1,3-butadiene	20	22.1		111		
Chlorobenzene	20	19.9		100		
Chloroethane	20	21.6		108		
Chloroform	20	18.2		91		80-120
1-Chlorohexane	20	25.8		129		
Chloromethane	20	22.8		114		
3-Chloropropene	20	18.0		90		
2-Chlorotoluene	20	20.6		103		
4-Chlorotoluene	20	20.5		103		
1,2-Dibromo-3-chloropropane	20	18.3		91		

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37728 **Instrument Data File:** A0825202.D **Date/Time Analyzed:** 08/25/2002 14:32
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Continued

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
Dibromochloromethane	20	15.9		80		
1,2-Dibromoethane	20	20.0		100		
Dibromomethane	20	19.1		96		
trans-1,4-Dichloro-2-butene	20	16.9		84		
1,4-Dichlorobenzene	20	18.5		92		
1,2-Dichlorobenzene	20	18.2		91		
1,3-Dichlorobenzene	20	18.8		94		
Dichlorodifluoromethane	20	21.0		105		
1,1-Dichloroethane	20	18.7		94		
1,2-Dichloroethane	20	16.7		83		
1,1-Dichloroethene	20	20.5		102		80-120
cis-1,2-Dichloroethene	20	19.8		99		
trans-1,2-Dichloroethene	20	19.7		99		
1,2-Dichloropropane	20	20.6		103		80-120
1,3-Dichloropropane	20	20.1		100		
2,2-Dichloropropane	20	27.3		137		
1,1-Dichloropropene	20	19.8		99		
cis-1,3-Dichloropropene	20	17.5		88		
trans-1,3-Dichloropropene	20	19.2		96		
Ethyl methacrylate	20	21.7		108		
Ethylbenzene	20	21.6		108		80-120
Hexachloro-1,3-butadiene	20	14.8		74		
2-Hexanone	20	23.6		118		
Iodomethane	20	18.0		90		
Isopropylbenzene	20	20.6		103		
4-Isopropyltoluene	20	20.4		102		

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37728 **Instrument Data File:** A0825202.D **Date/Time Analyzed:** 08/25/2002 14:32
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Continued

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
Methyl methacrylate	20	20.7		103		
Methyl tert-butyl ether (MTBE)	20	20.4		102		
4-Methyl-2-pentanone (MIBK)	20	23.0		115		
Methylene chloride	20	19.1		96		
Naphthalene	20	14.3		71		
Propanenitrile	100	92.1		92		
n-Propylbenzene	20	21.1		105		
Styrene	20	21.5		107		
1,1,1,2-Tetrachloroethane	20	19.7		99		
1,1,2,2-Tetrachloroethane	20	19.8		99		
Tetrachloroethene	20	20.8		104		
Tetrahydrofuran	20	24.6		123		
Toluene	20	21.3		106		80-120
1,2,3-Trichlorobenzene	20	12.3		61		
1,2,4-Trichlorobenzene	20	15.6		78		
1,1,1-Trichloroethane	20	19.8		99		
1,1,2-Trichloroethane	20	21.1		105		
Trichloroethene	20	21.7		108		
Trichlorofluoromethane	20	26.8		134		
1,2,3-Trichloropropane	20	20.0		100		
1,1,2-Trichlorotrifluoroethane	20	22.2		111		
1,2,4-Trimethylbenzene	20	20.8		104		
1,3,5-Trimethylbenzene	20	21.2		106		
Vinyl acetate	20	26.8		134		
Vinyl chloride	20	22.1		110		80-120
p-Xylene/m-Xylene	40	42.8		107		

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37728 **Instrument Data File:** A0825202.D **Date/Time Analyzed:** 08/25/2002 14:32
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Continued

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
o-Xylene	20	20.9		104		

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37728 **Instrument Data File:** A0825227.D **Date/Time Analyzed:** 08/26/2002 03:18
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
Acetone	20	14.2		71		
Acetonitrile	100	106		106		
Acrolein	100	57.0		57		
Acrylonitrile	100	92.0		92		
Benzene	20	18.4		92		
Bromobenzene	20	18.4		92		
Bromochloromethane	20	17.5		87		
Bromodichloromethane	20	17.1		86		
Bromoform	20	17.7		88		
Bromomethane	20	19.0		95		
2-Butanone (MEK)	20	18.5		92		
n-Butylbenzene	20	19.6		98		
sec-Butylbenzene	20	19.2		96		
tert-Butylbenzene	20	18.8		94		
Carbon disulfide	20	18.8		94		
Carbon tetrachloride	20	16.8		84		
2-Chloro-1,3-butadiene	20	20.3		102		
Chlorobenzene	20	19.4		97		
Chloroethane	20	19.4		97		
Chloroform	20	17.3		87		80-120
1-Chlorohexane	20	23.4		117		
Chloromethane	20	20.0		100		
3-Chloropropene	20	21.0		105		
2-Chlorotoluene	20	18.9		94		
4-Chlorotoluene	20	19.4		97		
1,2-Dibromo-3-chloropropane	20	16.5		82		

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37728 **Instrument Data File:** A0825227.D **Date/Time Analyzed:** 08/26/2002 03:18
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Continued

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
Dibromochloromethane	20	18.0		90		
1,2-Dibromoethane	20	19.8		99		
Dibromomethane	20	18.8		94		
trans-1,4-Dichloro-2-butene	20	19.5		98		
1,4-Dichlorobenzene	20	17.6		88		
1,2-Dichlorobenzene	20	17.7		89		
1,3-Dichlorobenzene	20	18.1		90		
Dichlorodifluoromethane	20	17.8		89		
1,1-Dichloroethane	20	17.2		86		
1,2-Dichloroethane	20	15.7		78		
1,1-Dichloroethene	20	19.0		95		80-120
cis-1,2-Dichloroethene	20	18.8		94		
trans-1,2-Dichloroethene	20	17.9		89		
1,2-Dichloropropane	20	19.4		97		80-120
1,3-Dichloropropane	20	19.5		98		
2,2-Dichloropropane	20	16.8		84		
1,1-Dichloropropene	20	18.4		92		
cis-1,3-Dichloropropene	20	18.7		94		
trans-1,3-Dichloropropene	20	20.3		101		
Ethyl methacrylate	20	20.3		101		
Ethylbenzene	20	20.7		103		80-120
Hexachloro-1,3-butadiene	20	12.9		64		
2-Hexanone	20	21.1		105		
Iodomethane	20	17.2		86		
Isopropylbenzene	20	19.2		96		
4-Isopropyltoluene	20	18.6		93		

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37728 **Instrument Data File:** A0825227.D **Date/Time Analyzed:** 08/26/2002 03:18
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Continued

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
Methyl methacrylate	20	19.6		98		
Methyl tert-butyl ether (MTBE)	20	18.0		90		
4-Methyl-2-pentanone (MIBK)	20	20.4		102		
Methylene chloride	20	18.6		93		
Naphthalene	20	14.1		71		
Propanenitrile	100	84.8		85		
n-Propylbenzene	20	20.1		100		
Styrene	20	20.5		102		
1,1,1,2-Tetrachloroethane	20	18.3		91		
1,1,2,2-Tetrachloroethane	20	17.0		85		
Tetrachloroethene	20	33.2		166		
Tetrahydrofuran	20	25.0		125		
Toluene	20	20.2		101		80-120
1,2,3-Trichlorobenzene	20	12.2		61		
1,2,4-Trichlorobenzene	20	15.1		76		
1,1,1-Trichloroethane	20	17.5		87		
1,1,2-Trichloroethane	20	20.0		100		
Trichloroethene	20	19.8		99		
Trichlorofluoromethane	20	21.9		109		
1,2,3-Trichloropropane	20	20.0		100		
1,1,2-Trichlorotrifluoroethane	20	19.8		99		
1,2,4-Trimethylbenzene	20	19.4		97		
1,3,5-Trimethylbenzene	20	19.8		99		
Vinyl acetate	20	11.4		57		
Vinyl chloride	20	19.8		99		80-120
p-Xylene/m-Xylene	40	40.2		100		

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37728 **Instrument Data File:** A0825227.D **Date/Time Analyzed:** 08/26/2002 03:18
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Continued

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
o-Xylene	20	19.9		100		

SECTION V
Calibration and QC Information
Mass Spectrometer Tune

MS-VOA
SW8260B
BFB

Analysis Batch ID: 37728 **Instrument Data File:** A0825202.D **Date Analyzed:** 08/25/2002 14:32
Instrument ID: MSDA **Injection Time:** 08/25/2002 14:32 **Analyst:** BJP

	Ion Abundance Criteria		
Mass/Energy	Lower Limit	Upper Limit	% Relative Abundance
50	15	40	36.6
75	30	60	43.1
95	100	100	100
96	5	9	6
173	0	2	0
174	50		91.6
175	5	9	6.6
176	95	101	100.6
177	5	9	6.1

SECTION V
Calibration and QC Information
Mass Spectrometer Tune

MS-VOA
SW8260B
BFB

Analysis Batch ID: 37728
Instrument ID: MSDA

Instrument Data File: A0825227.D
Injection Time: 08/26/2002 03:18

Date Analyzed: 08/26/2002 03:18
Analyst: BJP

Mass/Energy	Ion Abundance Criteria		% Relative Abundance
	Lower Limit	Upper Limit	
50	15	40	21.6
75	30	60	41.2
95	100	100	100
96	5	9	7
173	0	2	0
174	50		58.9
175	5	9	7.8
176	95	101	100.7
177	5	9	6.8

SECTION V
Calibration and QC Information
Method Blank Results

MS-VOA
SW8260B

Method Blank ID	1041833		
Sample Type	Method Blank		
Matrix	Aqueous		
Date/Time Prepared	08/25/2002 16:35		
Date/Time Analyzed	08/25/2002 16:35		
Instrument	MSDA		
Units	ug/L		

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		1.26	0.00								
Acetonitrile	75-05-8	ND		5.34	0.00								
Acrolein	107-02-8	ND		2.84	0.00								
Acrylonitrile	107-13-1	ND		0.290	0.00								
Benzene	71-43-2	ND		0.0465	0.00								
Bromobenzene	108-86-1	ND		0.0643	0.00								
Bromochloromethane	74-97-5	ND		0.0449	0.00								
Bromodichloromethane	75-27-4	ND		0.0528	0.00								
Bromoform	75-25-2	ND		0.106	0.00								
Bromomethane	74-83-9	ND		0.0454	0.00								
2-Butanone (MEK)	78-93-3	ND		2.83	0.00								
n-Butylbenzene	104-51-8	ND		0.0888	0.00								
sec-Butylbenzene	135-98-8	ND		0.104	0.00								
tert-Butylbenzene	98-06-6	ND		0.0934	0.00								
Carbon disulfide	75-15-0	ND		0.0415	0.00								
Carbon tetrachloride	56-23-5	ND		0.0553	0.00								
2-Chloro-1,3-butadiene	126-99-8	ND		0.0596	0.00								
Chlorobenzene	108-90-7	ND		0.0404	0.00								
Chloroethane	75-00-3	ND		0.0755	0.00								
Chloroform	67-66-3	ND		0.0338	0.00								
1-Chlorohexane	544-10-5	ND		0.0798	0.00								
Chloromethane	74-87-3	ND		0.0509	0.00								
3-Chloropropene	107-05-1	ND		0.0785	0.00								
2-Chlorotoluene	95-49-8	ND		0.0359	0.00								
4-Chlorotoluene	106-43-4	ND		0.0684	0.00								

SECTION V
Calibration and QC Information
Method Blank Results

MS-VOA
SW8260B

Method Blank ID	1041833		

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
1,2-Dibromo-3-chloropropane	96-12-8	ND		0.777	0.00								
Dibromochloromethane	124-48-1	ND		0.0946	0.00								
1,2-Dibromoethane	106-93-4	ND		0.0895	0.00								
Dibromomethane	74-95-3	ND		0.0550	0.00								
trans-1,4-Dichloro-2-butene	110-57-6	ND		0.0596	0.00								
1,4-Dichlorobenzene	106-46-7	ND		0.0495	0.00								
1,2-Dichlorobenzene	95-50-1	ND		0.0596	0.00								
1,3-Dichlorobenzene	541-73-1	ND		0.0591	0.00								
Dichlorodifluoromethane	75-71-8	ND		0.0930	0.00								
1,1-Dichloroethane	75-34-3	ND		0.0445	0.00								
1,2-Dichloroethane	107-06-2	ND		0.0632	0.00								
1,1-Dichloroethene	75-35-4	ND		0.0492	0.00								
cis-1,2-Dichloroethene	156-59-2	ND		0.0353	0.00								
trans-1,2-Dichloroethene	156-60-5	ND		0.0430	0.00								
1,2-Dichloropropane	78-87-5	ND		0.0519	0.00								
1,3-Dichloropropane	142-28-9	ND		0.0401	0.00								
2,2-Dichloropropane	594-20-7	ND		0.0492	0.00								
1,1-Dichloropropene	563-58-6	ND		0.0374	0.00								
cis-1,3-Dichloropropene	10061-01-5	ND		0.0526	0.00								
trans-1,3-Dichloropropene	10061-02-6	ND		0.0486	0.00								
Ethyl methacrylate	97-63-2	ND		0.0822	0.00								
Ethylbenzene	100-41-4	ND		0.0469	0.00								
Hexachloro-1,3-butadiene	87-68-3	ND		0.155	0.00								
2-Hexanone	591-78-6	ND		0.838	0.00								
Iodomethane	74-88-4	ND		0.0452	0.00								
Isopropylbenzene	98-82-8	ND		0.0769	0.00								
4-Isopropyltoluene	99-87-6	ND		0.0899	0.00								
Methyl methacrylate	80-62-6	ND		0.175	0.00								
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.0619	0.00								

SECTION V
Calibration and QC Information
Method Blank Results

MS-VOA
SW8260B

Method Blank ID	1041833		

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		0.473	0.00								
Methylene chloride	75-09-2	ND		0.0210	0.00								
Naphthalene	91-20-3	ND		0.0708	0.00								
Propanenitrile	107-12-0	ND		0.652	0.00								
n-Propylbenzene	103-65-1	ND		0.0698	0.00								
Styrene	100-42-5	ND		0.0295	0.00								
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.0578	0.00								
1,1,2,2-Tetrachloroethane	79-34-5	ND		0.109	0.00								
Tetrachloroethene	127-18-4	ND		0.103	0.00								
Tetrahydrofuran	109-99-9	ND		1.28	0.00								
Toluene	108-88-3	ND		0.0236	0.00								
1,2,3-Trichlorobenzene	87-61-6	ND		0.110	0.00								
1,2,4-Trichlorobenzene	120-82-1	ND		0.140	0.00								
1,1,1-Trichloroethane	71-55-6	ND		0.0511	0.00								
1,1,2-Trichloroethane	79-00-5	ND		0.0489	0.00								
Trichloroethene	79-01-6	0.108	J	0.0506	0.00								
Trichlorofluoromethane	75-69-4	ND		0.0495	0.00								
1,2,3-Trichloropropane	96-18-4	ND		0.117	0.00								
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.0529	0.00								
1,2,4-Trimethylbenzene	95-63-6	ND		0.0744	0.00								
1,3,5-Trimethylbenzene	108-67-8	ND		0.0616	0.00								
Vinyl acetate	108-05-4	ND		0.172	0.00								
Vinyl chloride	75-01-4	ND		0.0501	0.00								
p-Xylene/m-Xylene	106-42-3	ND		0.0869	0.00								
o-Xylene	95-47-6	ND		0.0409	0.00								

SECTION V
Calibration and QC Information
Method Blank Results

MS-VOA
SW8260B

Method Blank ID	1041833		
Sample Type	Method Blank		
Matrix	Aqueous		
Date/Time Prepared	08/25/2002 16:35		
Date/Time Analyzed	08/25/2002 16:35		
Instrument	MSDA		
Units	ug/L		

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	100	77-117							
1,2-Dichloroethane-d4	93	61-143							
Toluene-d8	98	87-113							

SECTION V
Calibration and QC Information
Control Sample Results

MS-VOA
SW8260B

Client Sample ID:	LCS for HBN 37728 [MSV/1957]	**Instrument ID:**	MSDA	**% Moisture:**	NA
Prep Batch ID:	37728	**Units:**	ug/L	**Analyst:**	BJP
Analysis Batch ID:	37728	**Matrix:**	Aqueous		

	Control Sample			Control Sample Duplicate					
	Lab ID: 1041831			**Lab ID:** 1041832				**QC Limits**	
	File ID: A0825203.D			**File ID:** A0825204.D					
Parameter	**Spk Amt**	**Conc**	**%Rec Flg**	**Spk Amt**	**Conc**	**%Rec Flg**	**RPD Flg**	**%Rec**	**RPD**
Acetone	20	17.8	89	20	19.4	97	8.6	0.1-240	71
Benzene	20	19.9	100	20	20.7	104	3.9	71-133	17
Bromobenzene	20	18.8	94	20	19.4	97	3.1	67-127	12
Bromochloromethane	20	16.2	81	20	16.7	84	3.6	61-145	21
Bromodichloromethane	20	15.0	75	20	15.7	79	5.2	57-135	19
Bromoform	20	15.7	78	20	16.3	82	5	23-151	17
Bromomethane	20	14.4	72	20	14.3	71	1.4	34-128	25
2-Butanone (MEK)	20	19.5	97	20	20.9	104	7	0.1-214	39
n-Butylbenzene	20	21.1	106	20	21.9	110	3.7	28-184	30
sec-Butylbenzene	20	20.2	101	20	20.8	104	2.9	45-160	31
tert-Butylbenzene	20	19.2	96	20	19.5	98	2.1	65-148	27
Carbon disulfide	20	10.8	54	20	11.9	59	8.8	29-223	23
Carbon tetrachloride	20	15.2	76	20	15.7	78	2.6	46-150	23
Chlorobenzene	20	19.5	97	20	19.5	98	1	77-129	14
Chloroethane	20	18.9	94	20	19.5	98	4.2	39-133	27
Chloroform	20	17.2	86	20	17.6	88	2.3	64-146	16
Chloromethane	20	15.0	75	20	15.4	77	2.6	18-140	26
2-Chlorotoluene	20	19.3	96	20	19.5	97	1	70-136	24
4-Chlorotoluene	20	20.0	100	20	20.8	104	3.9	74-132	23
1,2-Dibromo-3-chloropropane	20	19.3	96	20	20.0	100	4.1	39-171	25
Dibromochloromethane	20	15.5	78	20	16.6	83	6.2	45-137	15
1,2-Dibromoethane	20	20.6	103	20	20.6	103	0	19-187	19
Dibromomethane	20	18.1	91	20	19.2	96	5.3	52-138	21
1,4-Dichlorobenzene	20	18.2	91	20	19.0	95	4.3	70-132	13

SECTION V
Calibration and QC Information
Control Sample Results

MS-VOA
SW8260B

Parameter	Control Sample continued Lab ID: 1041831 File ID: A0825203.D Spk Amt	Conc	%Rec Flg	Control Sample Duplicate continued Lab ID: 1041832 File ID: A0825204.D Spk Amt	Conc	%Rec Flg	RPD Flg	QC Limits %Rec	RPD
1,2-Dichlorobenzene	20	17.7	88	20	18.3	92	4.4	67-135	14
1,3-Dichlorobenzene	20	18.7	93	20	19.0	95	2.1	68-134	14
Dichlorodifluoromethane	20	9.92	50	20	9.99	50	0	0.1-166	26
1,1-Dichloroethane	20	16.8	84	20	17.0	85	1.2	66-138	19
1,2-Dichloroethane	20	15.3	76	20	15.6	78	2.6	48-152	23
1,1-Dichloroethene	20	17.2	86	20	17.4	87	1.2	47-175	25
cis-1,2-Dichloroethene	20	18.2	91	20	18.4	92	1.1	66-144	18
trans-1,2-Dichloroethene	20	17.5	87	20	17.7	88	1.1	62-146	22
1,2-Dichloropropane	20	19.0	95	20	18.9	94	1	61-133	17
1,3-Dichloropropane	20	20.2	101	20	20.2	101	0	70-128	16
2,2-Dichloropropane	20	24.1	120	20	24.5	123	2.5	40-168	30
1,1-Dichloropropene	20	18.6	93	20	19.2	96	3.2	71-155	31
cis-1,3-Dichloropropene	20	16.0	80	20	17.3	86	7.2	36-142	16
trans-1,3-Dichloropropene	20	18.7	94	20	19.2	96	2.1	34-138	21
Ethylbenzene	20	20.8	104	20	21.2	106	1.9	75-131	14
Hexachloro-1,3-butadiene	20	14.6	73	20	14.5	73	0	46-150	34
2-Hexanone	20	24.9	124	20	25.8	129	4	22-164	34
Iodomethane	20	14.9	74	20	15.3	76	2.7		
Isopropylbenzene	20	19.6	98	20	19.8	99	1	54-152	26
4-Isopropyltoluene	20	19.6	98	20	20.5	102	4	41-165	28
4-Methyl-2-pentanone (MIBK)	20	22.5	112	20	23.3	117	4.4	27-149	36
Methylene chloride	20	16.6	83	20	17.3	86	3.6	36-166	23
Naphthalene	20	18.3	92	20	19.0	95	3.2	32-172	22
n-Propylbenzene	20	20.6	103	20	21.2	106	2.9	61-143	28
Styrene	20	21.4	107	20	21.7	108	0.9	68-136	14
1,1,1,2-Tetrachloroethane	20	18.3	91	20	18.7	94	3.2	63-141	20
1,1,2,2-Tetrachloroethane	20	19.9	100	20	20.0	100	0	47-143	20
Tetrachloroethene	20	20.2	101	20	20.7	103	2	69-137	16
Toluene	20	20.5	102	20	20.4	102	0	70-132	17
1,2,3-Trichlorobenzene	20	16.5	82	20	17.6	88	7	66-140	20
1,2,4-Trichlorobenzene	20	17.4	87	20	18.0	90	3.4	66-144	22

SECTION V
Calibration and QC Information
Control Sample Results

MS-VOA
SW8260B

Parameter	Control Sample continued Lab ID: 1041831 File ID: A0825203.D Spk Amt	Conc	%Rec Flg	Control Sample Duplicate continued Lab ID: 1041832 File ID: A0825204.D Spk Amt	Conc	%Rec Flg	RPD Flg	QC Limits %Rec	RPD
1,1,1-Trichloroethane	20	17.4	87	20	17.8	89	2.3	49-155	24
1,1,2-Trichloroethane	20	19.5	97	20	19.8	99	2	67-135	17
Trichloroethene	20	18.7	94	20	18.5	93	1.1	71-129	17
Trichlorofluoromethane	20	20.0	100	20	20.0	100	0	39-147	29
1,2,3-Trichloropropane	20	20.4	102	20	20.6	103	1	64-140	18
1,2,4-Trimethylbenzene	20	19.5	98	20	20.5	103	5	54-156	25
1,3,5-Trimethylbenzene	20	20.0	100	20	21.1	106	5.8	62-144	25
Vinyl acetate	20	3.78	19	20	3.72	18	5.4	0.1-164	31
Vinyl chloride	20	14.2	71	20	14.6	73	2.8	24-138	27
p-Xylene/m-Xylene	40	40.5	101	40	40.9	102	1	76-134	15
o-Xylene	20	20.4	102	20	20.6	103	1	77-131	15

SECTION V
Calibration and QC Information
Control Sample Results

MS-VOA
SW8260B

	Lab ID: 1041831		Lab ID: 1041832		
Surrogate Compounds	%Recovery	Flags	%Recovery	Flags	QC Recovery Limits
1-Bromo-4-fluorobenzene	106		106		77-117
1,2-Dichloroethane-d4	89		87		61-143
Toluene-d8	97		99		87-113

SECTION VI
Batch Summaries

Extraction/Digestion Batch Summary
MS-VOA
SW8260B

Extraction Batch ID: 37728 **Start Date/Time:** 08/25/2002 14:32 **Analyst:** BJP
Stop Date/Time: 08/26/2002 11:58

Client Sample ID	Lab Sample ID	Sample Type	Matrix	Sample Size Initial	Sample Size Final	Preparation Method
INSTRUMENT QC	1000	GC/MS Tune	Aqueous	15 mL	15 mL	SW8260B
INSTRUMENT QC	1406	Continuing Calibration Check	Aqueous	15 mL	15 mL	SW8260B
LCS for HBN 37728 [MSV/1957]	1041831	Lab Control Sample	Aqueous	15 mL	15 mL	SW8260B
LCSD for HBN 37728 [MSV/1957]	1041832	Lab Control Sample Duplicate	Aqueous	15 mL	15 mL	SW8260B
MB for HBN 37728 [MSV/1957]	1041833	Method Blank	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020814201	Field Sample	Aqueous	15 mL	15 mL	SW8260B
TRIP BLANK-TB2	2020814707	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020815709	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 215	2020814701	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 999	2020814705	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020815701	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020815704	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020815705	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020815706	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020815707	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020815708	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020815702	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020815703	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 214	2020814702	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 213	2020814706	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 228	2020814703	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 227	2020814704	Field Sample	Aqueous	15 mL	15 mL	SW8260B
INSTRUMENT QC	1000	GC/MS Tune	Aqueous	15 mL	15 mL	SW8260B
INSTRUMENT QC	1406	Continuing Calibration Check	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	1041874	Matrix Spike	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	1041875	Matrix Spike Duplicate	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 227	2020814704	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 228	2020814703	Field Sample	Aqueous	15 mL	15 mL	SW8260B

SECTION VI
Batch Summaries

Extraction/Digestion Batch Summary
MS-VOA
SW8260B

Extraction Batch ID: 37728 continued

Client Sample ID	Lab Sample ID	Sample Type	Matrix	Sample Size		Preparation Method
				Initial	Final	
0802 HBWW 999	2020814705	Field Sample	Aqueous	15 mL	15 mL	SW8260B

SECTION VI
Batch Summaries

Analysis Batch Summary
MS-VOA
SW8260B

Analysis Batch ID: 37728 **Instrument ID:** MSDA **Analyst:** BJP

Sequence	Client Sample ID	Lab Sample ID	Analysis Date	Analysis Time	Sample Type	Analysis File ID	Sub-Batch ID
1	INSTRUMENT QC	1000	08/25/2002	14:32:00	GC/MS Tune	A0825202.D	0
2	INSTRUMENT QC	1406	08/25/2002	14:32:00	Continuing Calibration Check	A0825202.D	0
3	LCS for HBN 37728 [MSV/1957]	1041831	08/25/2002	15:03:00	Lab Control Sample	A0825203.D	0
4	LCSD for HBN 37728 [MSV/1957]	1041832	08/25/2002	15:34:00	Lab Control Sample Duplicate	A0825204.D	0
5	MB for HBN 37728 [MSV/1957]	1041833	08/25/2002	16:35:00	Method Blank	A0825206.D	0
6	ZZZZZZZZZZ	2020814201	08/25/2002	17:06:00	Field Sample	A0825207.D	0
7	TRIP BLANK-TB2	2020814707	08/25/2002	17:37:00	Field Sample	A0825208.D	0
8	ZZZZZZZZZZ	2020815709	08/25/2002	18:08:00	Field Sample	A0825209.D	0
9	0802 HBWW 215	2020814701	08/25/2002	18:39:00	Field Sample	A0825210.D	0
10	0802 HBWW 999	2020814705	08/25/2002	19:10:00	Field Sample	A0825211.D	0
11	ZZZZZZZZZZ	2020815701	08/25/2002	19:40:00	Field Sample	A0825212.D	0
12	ZZZZZZZZZZ	2020815704	08/25/2002	20:11:00	Field Sample	A0825213.D	0
13	ZZZZZZZZZZ	2020815705	08/25/2002	20:41:00	Field Sample	A0825214.D	0
14	ZZZZZZZZZZ	2020815706	08/25/2002	21:12:00	Field Sample	A0825215.D	0
15	ZZZZZZZZZZ	2020815707	08/25/2002	21:43:00	Field Sample	A0825216.D	0
16	ZZZZZZZZZZ	2020815708	08/25/2002	22:13:00	Field Sample	A0825217.D	0
17	ZZZZZZZZZZ	2020815702	08/25/2002	22:44:00	Field Sample	A0825218.D	0
18	ZZZZZZZZZZ	2020815703	08/25/2002	23:14:00	Field Sample	A0825219.D	0
19	0802 HBWW 214	2020814702	08/25/2002	23:45:00	Field Sample	A0825220.D	0
20	0802 HBWW 213	2020814706	08/26/2002	00:15:00	Field Sample	A0825221.D	0
21	0802 HBWW 228	2020814703	08/26/2002	00:46:00	Field Sample	A0825222.D	0
22	0802 HBWW 227	2020814704	08/26/2002	01:16:00	Field Sample	A0825223.D	0
23	INSTRUMENT QC	1000	08/26/2002	03:18:00	GC/MS Tune	A0825227.D	0
24	INSTRUMENT QC	1406	08/26/2002	03:18:00	Continuing Calibration Check	A0825227.D	0
25	ZZZZZZZZZZ	1041874	08/26/2002	05:19:00	Matrix Spike	A0825231.D	0
26	ZZZZZZZZZZ	1041875	08/26/2002	05:49:00	Matrix Spike Duplicate	A0825232.D	0
27	0802 HBWW 227	2020814704	08/26/2002	07:20:00	Field Sample	A0825235.D	0
28	0802 HBWW 228	2020814703	08/26/2002	07:50:00	Field Sample	A0825236.D	0
29	0802 HBWW 999	2020814705	08/26/2002	11:58:00	Field Sample	A0825244.D	0

SECTION VII
Certifications

State/Agency	ID #
Arkansas Department of Environmental Quality	
California Environmental Laboratory Accreditation Program / Waste Water/Hazardous Waste	2411
Connecticut Department of Health/Waste Water/Trade Waste, Sewage/Effluent, Soil	PH-0761
Kansas Department of Health and Environment / Solid and Hazardous Waste	E-10165
Louisiana Department of Environmental Quality, ELAP / Waste Water/Hazardous Waste/Air Emissions	30736
Montana Department of Environmental Quality/Petroleum Release Section	Participating Laboratory
New York State Department of Health /Waste Water/Hazardous Waste/Air	10915
North Carolina Dept. of Natural Resources & Community Development / Waste Water	302
Oklahoma Department of Environmental Quality/General Water Quality/Sludge	8720
South Carolina Dept. of Health & Environmental Control	82003
Texas(TNRCC)	Participating Laboratory
Texas Department of Public Safety/Precursor Chemical and Lab Apparatus	3039
Wisconsin Department of Natural Resources	999885260
US Air Force/AFCEE	Participating Laboratory
US Army Corps of Engineers (MRD,ACE)	Participating Laboratory
US Department of Agriculture / Restricted Soils Permit	S-42350
US Navy(NFESC)	Participating Laboratory

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Quality Control Exception Report

QCER #:	5765	Analysis Date:	8/25/02	File ID(s):
Status:	Complete	Spec:	07	A0825236.
Queue:	MSV	Instrument:	MSDA	
Analyst:	BJP	Matrix:	W	
		HBN:	37728	

Work Order	HSN	Client	CSC
	2020814703	HB-PS	JAL

Analytical Problem Identification

Surrogate Recovery

Analytical Probable Cause

Matrix effect

Analytical Corrective Action Taken

QCER written

Flagged data

Comments:

1,2-Dichloroehtane-d4 is below the surrogate acceptance criteria in the 50X analysis. All surrogates are in control in the 1000X analysis; therefore matrix effect is suspected.

STL Austin

Laboratory Analysis Report

August 27, 2002

Martha Meyers-Lee
URS Corporation
1600 Perimeter Park Dr.
Morrisville, NC 27560

(919)461-1519 (Business)

RE: Laboratory Reference: 80396913 [20208123] Hamilton Beach-Proctor Silex

Dear Martha Meyers-Lee:

STL Austin received samples with a request for the analytical fractions listed below. Except as noted in the QCER(s) all laboratory quality control parameters were met. These data have been reviewed and released by the person below. Results for the indicated analytical fractions and associated quality control data are enclosed in this report.

Fraction	Status	Reported	Approval Signature - Title
MS-VOA	ENCLOSED	08/27/2002	Carl W. Shelley VM 8/28/02

The report is provided as indicated in the Table of Contents (Page i) and it is followed by Appendix A which includes any additional information associated with the report. This report must not be reproduced, except in full, without the written approval of the laboratory.

STL Austin appreciates your business and looks forward to serving you again. If you have any questions about your report or need any additional information, please call me at (512)310-5249 or fax inquiries to (512)244-0160.

Sincerely,

Linda Veigt for

Jane Lindsey
Client Services/Project Manager

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MS-VOA

Client Name: Hamilton Beach-Proctor Silex
Client Code: HB-PS

Project Name: 80396913 [20208123] Hamilton Beach-Proctor Silex
Facility Name: NC

Workorder Summary

Client Sample ID	Lab Sample ID	Sample Matrix	Method Citation	Method Description
0802 HBWW 220	2020812301	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 225	2020812302	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 224	2020812303	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 226	2020812304	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 234	2020812305	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 216	2020812306	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 222	2020812307	Aqueous	SW8260B	Volatiles by GC/MS
0802 HBWW 998	2020812308	Aqueous	SW8260B	Volatiles by GC/MS
TRIP BLANK - TB1	2020812309	Aqueous	SW8260B	Volatiles by GC/MS

Protocol Summary

Client Sample ID	Lab Sample ID	Date & Time Collected	Date & Time Received	Prep Batch ID	Date & Time Prepared	Analysis Batch ID	Date & Time Analyzed	Hold Time Spec			
								Prep		Analysis	
								Spec	Actual	Spec	Actual
Method: SW8260B											
0802 HBWW 220	2020812301	08/20/02 14:00	08/21/02 08:30	37627	08/21/02 20:30	37627	08/21/02 20:30	7D	1D	7D	1D
0802 HBWW 225	2020812302	08/20/02 14:20	08/21/02 08:30	37627	08/21/02 21:00	37627	08/21/02 21:00	7D	1D	7D	1D
0802 HBWW 224	2020812303	08/20/02 14:15	08/21/02 08:30	37627	08/21/02 21:31	37627	08/21/02 21:31	7D	1D	7D	1D
0802 HBWW 226	2020812304	08/20/02 12:30	08/21/02 08:30	37627	08/21/02 22:02	37627	08/21/02 22:02	7D	1D	7D	1D
0802 HBWW 234	2020812305	08/20/02 14:55	08/21/02 08:30	37627	08/21/02 22:32	37627	08/21/02 22:32	7D	1D	7D	1D

MS-VOA

Protocol Summary continued -

Client Sample ID	Lab Sample ID	Date & Time Collected	Date & Time Received	Prep Batch ID	Date & Time Prepared	Analysis Batch ID	Date & Time Analyzed	Hold Time Spec Prep Spec	Hold Time Spec Prep Actual	Hold Time Spec Analysis Spec	Hold Time Spec Analysis Actual
Method: SW8260B continued -											
0802 HBWW 216	2020812306	08/20/02 15:25	08/21/02 08:30	37627	08/21/02 23:03	37627	08/21/02 23:03	7D	1D	7D	1D
0802 HBWW 222	2020812307	08/20/02 16:05	08/21/02 08:30	37627	08/21/02 23:34	37627	08/21/02 23:34	7D	1D	7D	1D
0802 HBWW 998	2020812308	08/20/02 12:35	08/21/02 08:30	37627	08/22/02 00:05	37627	08/22/02 00:05	7D	2D	7D	2D
TRIP BLANK - TB1	2020812309	08/20/02 00:00	08/21/02 08:30	37627	08/22/02 00:36	37627	08/22/02 00:36	7D	2D	7D	2D

SECTION III
Comments and Flag Definitions

MS-VOA

Standard Data Qualifiers

Flag	Definition
J	Result > or = MDL and <PQL
NA	Not analyzed/Not available
ND	Not detected at the specified reporting limit
Q	Result does not meet tolerance in Protocol Specification
U	Result less than sample specific method detection limit

Analyst Comments

Flag	Affected Sample	Method	Comment

Sample Condition Comments

Affected Sample	Comment

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 216	0802 HBWW 220	0802 HBWW 222
Lab Sample ID	2020812306	2020812301	2020812307
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/20/2002 15:25	08/20/2002 14:00	08/20/2002 16:05
Date/Time Prepared	08/21/2002 23:03	08/21/2002 20:30	08/21/2002 23:34
Date/Time Analyzed	08/21/2002 23:03	08/21/2002 20:30	08/21/2002 23:34
Dilution Factor	1.0000	1.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		1.26	0.00	ND		1.26	0.00	ND		1.26	0.00
Acetonitrile	75-05-8	ND		5.34	0.00	ND		5.34	0.00	ND		5.34	0.00
Acrolein	107-02-8	ND		2.84	0.00	ND		2.84	0.00	ND		2.84	0.00
Acrylonitrile	107-13-1	ND		0.290	0.00	ND		0.290	0.00	ND		0.290	0.00
Benzene	71-43-2	ND		0.0465	0.00	ND		0.0465	0.00	ND		0.0465	0.00
Bromobenzene	108-86-1	ND		0.0643	0.00	ND		0.0643	0.00	ND		0.0643	0.00
Bromochloromethane	74-97-5	ND		0.0449	0.00	ND		0.0449	0.00	ND		0.0449	0.00
Bromodichloromethane	75-27-4	ND		0.0528	0.00	ND		0.0528	0.00	ND		0.0528	0.00
Bromoform	75-25-2	ND		0.106	0.00	ND		0.106	0.00	ND		0.106	0.00
Bromomethane	74-83-9	ND		0.0454	0.00	ND		0.0454	0.00	ND		0.0454	0.00
2-Butanone (MEK)	78-93-3	ND		2.83	0.00	ND		2.83	0.00	ND		2.83	0.00
n-Butylbenzene	104-51-8	ND		0.0888	0.00	ND		0.0888	0.00	ND		0.0888	0.00
sec-Butylbenzene	135-98-8	ND		0.104	0.00	ND		0.104	0.00	ND		0.104	0.00
tert-Butylbenzene	98-06-6	ND		0.0934	0.00	ND		0.0934	0.00	ND		0.0934	0.00
Carbon disulfide	75-15-0	ND		0.0415	0.00	ND		0.0415	0.00	ND		0.0415	0.00
Carbon tetrachloride	56-23-5	ND		0.0553	0.00	ND		0.0553	0.00	ND		0.0553	0.00
2-Chloro-1,3-butadiene	126-99-8	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
Chlorobenzene	108-90-7	ND		0.0404	0.00	ND		0.0404	0.00	ND		0.0404	0.00
Chloroethane	75-00-3	ND		0.0755	0.00	ND		0.0755	0.00	ND		0.0755	0.00
Chloroform	67-66-3	ND		0.0338	0.00	ND		0.0338	0.00	ND		0.0338	0.00
1-Chlorohexane	544-10-5	ND		0.0798	0.00	ND		0.0798	0.00	ND		0.0798	0.00

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 216	0802 HBWW 220	0802 HBWW 222
Lab Sample ID	2020812306	2020812301	2020812307

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND		0.0509	0.00	ND		0.0509	0.00	ND		0.0509	0.00
3-Chloropropene	107-05-1	ND		0.0785	0.00	ND		0.0785	0.00	ND		0.0785	0.00
2-Chlorotoluene	95-49-8	ND		0.0359	0.00	ND		0.0359	0.00	ND		0.0359	0.00
4-Chlorotoluene	106-43-4	ND		0.0684	0.00	ND		0.0684	0.00	ND		0.0684	0.00
1,2-Dibromo-3-chloropropane	96-12-8	ND		0.777	0.00	ND		0.777	0.00	ND		0.777	0.00
Dibromochloromethane	124-48-1	ND		0.0946	0.00	ND		0.0946	0.00	ND		0.0946	0.00
1,2-Dibromoethane	106-93-4	ND		0.0895	0.00	ND		0.0895	0.00	ND		0.0895	0.00
Dibromomethane	74-95-3	ND		0.0550	0.00	ND		0.0550	0.00	ND		0.0550	0.00
trans-1,4-Dichloro-2-butene	110-57-6	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
1,4-Dichlorobenzene	106-46-7	ND		0.0495	0.00	ND		0.0495	0.00	ND		0.0495	0.00
1,2-Dichlorobenzene	95-50-1	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
1,3-Dichlorobenzene	541-73-1	ND		0.0591	0.00	ND		0.0591	0.00	ND		0.0591	0.00
Dichlorodifluoromethane	75-71-8	ND		0.0930	0.00	ND		0.0930	0.00	ND		0.0930	0.00
1,1-Dichloroethane	75-34-3	ND		0.0445	0.00	0.569		0.0445	0.00	1.88		0.0445	0.00
1,2-Dichloroethane	107-06-2	ND		0.0632	0.00	ND		0.0632	0.00	ND		0.0632	0.00
1,1-Dichloroethene	75-35-4	ND		0.0492	0.00	ND		0.0492	0.00	0.855		0.0492	0.00
cis-1,2-Dichloroethene	156-59-2	ND		0.0353	0.00	ND		0.0353	0.00	0.545		0.0353	0.00
trans-1,2-Dichloroethene	156-60-5	ND		0.0430	0.00	ND		0.0430	0.00	ND		0.0430	0.00
1,2-Dichloropropane	78-87-5	ND		0.0519	0.00	ND		0.0519	0.00	ND		0.0519	0.00
1,3-Dichloropropane	142-28-9	ND		0.0401	0.00	ND		0.0401	0.00	ND		0.0401	0.00
2,2-Dichloropropane	594-20-7	ND		0.0492	0.00	ND		0.0492	0.00	ND		0.0492	0.00
1,1-Dichloropropene	563-58-6	ND		0.0374	0.00	ND		0.0374	0.00	ND		0.0374	0.00
cis-1,3-Dichloropropene	10061-01-5	ND		0.0526	0.00	ND		0.0526	0.00	ND		0.0526	0.00
trans-1,3-Dichloropropene	10061-02-6	ND		0.0486	0.00	ND		0.0486	0.00	ND		0.0486	0.00
Ethyl methacrylate	97-63-2	ND		0.0822	0.00	ND		0.0822	0.00	ND		0.0822	0.00
Ethylbenzene	100-41-4	ND		0.0469	0.00	ND		0.0469	0.00	ND		0.0469	0.00
Hexachloro-1,3-butadiene	87-68-3	ND		0.155	0.00	ND		0.155	0.00	ND		0.155	0.00
2-Hexanone	591-78-6	ND		0.838	0.00	ND		0.838	0.00	ND		0.838	0.00

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 216	0802 HBWW 220	0802 HBWW 222
Lab Sample ID	2020812306	2020812301	2020812307

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND		0.0452	0.00	ND		0.0452	0.00	ND		0.0452	0.00
Isopropylbenzene	98-82-8	ND		0.0769	0.00	ND		0.0769	0.00	ND		0.0769	0.00
4-Isopropyltoluene	99-87-6	ND		0.0899	0.00	ND		0.0899	0.00	ND		0.0899	0.00
Methyl methacrylate	80-62-6	ND		0.175	0.00	ND		0.175	0.00	ND		0.175	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.0619	0.00	ND		0.0619	0.00	ND		0.0619	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		0.473	0.00	ND		0.473	0.00	ND		0.473	0.00
Methylene chloride	75-09-2	ND		0.0210	0.00	ND		0.0210	0.00	ND		0.0210	0.00
Naphthalene	91-20-3	ND		0.0708	0.00	ND		0.0708	0.00	ND		0.0708	0.00
Propanenitrile	107-12-0	ND		0.652	0.00	ND		0.652	0.00	ND		0.652	0.00
n-Propylbenzene	103-65-1	ND		0.0698	0.00	ND		0.0698	0.00	ND		0.0698	0.00
Styrene	100-42-5	ND		0.0295	0.00	ND		0.0295	0.00	ND		0.0295	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.0578	0.00	ND		0.0578	0.00	ND		0.0578	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND		0.109	0.00	ND		0.109	0.00	ND		0.109	0.00
Tetrachloroethene	127-18-4	ND		0.103	0.00	ND		0.103	0.00	ND		0.103	0.00
Tetrahydrofuran	109-99-9	ND		1.28	0.00	ND		1.28	0.00	ND		1.28	0.00
Toluene	108-88-3	ND		0.0236	0.00	ND		0.0236	0.00	ND		0.0236	0.00
1,2,3-Trichlorobenzene	87-61-6	ND		0.110	0.00	ND		0.110	0.00	ND		0.110	0.00
1,2,4-Trichlorobenzene	120-82-1	ND		0.140	0.00	ND		0.140	0.00	ND		0.140	0.00
1,1,1-Trichloroethane	71-55-6	ND		0.0511	0.00	ND		0.0511	0.00	ND		0.0511	0.00
1,1,2-Trichloroethane	79-00-5	ND		0.0489	0.00	ND		0.0489	0.00	ND		0.0489	0.00
Trichloroethene	79-01-6	ND		0.0506	0.00	ND		0.0506	0.00	ND		0.0506	0.00
Trichlorofluoromethane	75-69-4	ND		0.0495	0.00	ND		0.0495	0.00	ND		0.0495	0.00
1,2,3-Trichloropropane	96-18-4	ND		0.117	0.00	ND		0.117	0.00	ND		0.117	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.0529	0.00	ND		0.0529	0.00	ND		0.0529	0.00
1,2,4-Trimethylbenzene	95-63-6	ND		0.0744	0.00	ND		0.0744	0.00	ND		0.0744	0.00
1,3,5-Trimethylbenzene	108-67-8	ND		0.0616	0.00	ND		0.0616	0.00	ND		0.0616	0.00
Vinyl acetate	108-05-4	ND		0.172	0.00	ND		0.172	0.00	ND		0.172	0.00
Vinyl chloride	75-01-4	ND		0.0501	0.00	ND		0.0501	0.00	ND		0.0501	0.00

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 216	0802 HBWW 220	0802 HBWW 222
Lab Sample ID	2020812306	2020812301	2020812307

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
p-Xylene/m-Xylene	106-42-3	ND		0.0869	0.00	ND		0.0869	0.00	ND		0.0869	0.00
o-Xylene	95-47-6	ND		0.0409	0.00	ND		0.0409	0.00	ND		0.0409	0.00

SECTION IV
Analytical Results
Surrogates

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 216	0802 HBWW 220	0802 HBWW 222
Lab Sample ID	2020812306	2020812301	2020812307
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/20/2002 15:25	08/20/2002 14:00	08/20/2002 16:05
Date/Time Prepared	08/21/2002 23:03	08/21/2002 20:30	08/21/2002 23:34
Date/Time Analyzed	08/21/2002 23:03	08/21/2002 20:30	08/21/2002 23:34
Dilution Factor	1.0000	1.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	104	77-117		102	77-117		104	77-117	
1,2-Dichloroethane-d4	92	61-143		91	61-143		90	61-143	
Toluene-d8	101	87-113		100	87-113		97	87-113	

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 224	0802 HBWW 225	0802 HBWW 226
Lab Sample ID	2020812303	2020812302	2020812304
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/20/2002 14:15	08/20/2002 14:20	08/20/2002 12:30
Date/Time Prepared	08/21/2002 21:31	08/21/2002 21:00	08/21/2002 22:02
Date/Time Analyzed	08/21/2002 21:31	08/21/2002 21:00	08/21/2002 22:02
Dilution Factor	1.0000	1.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		1.26	0.00	ND		1.26	0.00	ND		1.26	0.00
Acetonitrile	75-05-8	ND		5.34	0.00	ND		5.34	0.00	ND		5.34	0.00
Acrolein	107-02-8	ND		2.84	0.00	ND		2.84	0.00	ND		2.84	0.00
Acrylonitrile	107-13-1	ND		0.290	0.00	ND		0.290	0.00	ND		0.290	0.00
Benzene	71-43-2	ND		0.0465	0.00	ND		0.0465	0.00	ND		0.0465	0.00
Bromobenzene	108-86-1	ND		0.0643	0.00	ND		0.0643	0.00	ND		0.0643	0.00
Bromochloromethane	74-97-5	ND		0.0449	0.00	ND		0.0449	0.00	ND		0.0449	0.00
Bromodichloromethane	75-27-4	ND		0.0528	0.00	ND		0.0528	0.00	ND		0.0528	0.00
Bromoform	75-25-2	ND		0.106	0.00	ND		0.106	0.00	ND		0.106	0.00
Bromomethane	74-83-9	ND		0.0454	0.00	ND		0.0454	0.00	ND		0.0454	0.00
2-Butanone (MEK)	78-93-3	ND		2.83	0.00	ND		2.83	0.00	ND		2.83	0.00
n-Butylbenzene	104-51-8	ND		0.0888	0.00	ND		0.0888	0.00	ND		0.0888	0.00
sec-Butylbenzene	135-98-8	ND		0.104	0.00	ND		0.104	0.00	ND		0.104	0.00
tert-Butylbenzene	98-06-6	ND		0.0934	0.00	ND		0.0934	0.00	ND		0.0934	0.00
Carbon disulfide	75-15-0	ND		0.0415	0.00	ND		0.0415	0.00	ND		0.0415	0.00
Carbon tetrachloride	56-23-5	ND		0.0553	0.00	ND		0.0553	0.00	ND		0.0553	0.00
2-Chloro-1,3-butadiene	126-99-8	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
Chlorobenzene	108-90-7	ND		0.0404	0.00	ND		0.0404	0.00	ND		0.0404	0.00
Chloroethane	75-00-3	ND		0.0755	0.00	ND		0.0755	0.00	ND		0.0755	0.00
Chloroform	67-66-3	ND		0.0338	0.00	ND		0.0338	0.00	ND		0.0338	0.00
1-Chlorohexane	544-10-5	ND		0.0798	0.00	ND		0.0798	0.00	ND		0.0798	0.00

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 224	0802 HBWW 225	0802 HBWW 226
Lab Sample ID	2020812303	2020812302	2020812304

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND		0.0509	0.00	ND		0.0509	0.00	ND		0.0509	0.00
3-Chloropropene	107-05-1	ND		0.0785	0.00	ND		0.0785	0.00	ND		0.0785	0.00
2-Chlorotoluene	95-49-8	ND		0.0359	0.00	ND		0.0359	0.00	ND		0.0359	0.00
4-Chlorotoluene	106-43-4	ND		0.0684	0.00	ND		0.0684	0.00	ND		0.0684	0.00
1,2-Dibromo-3-chloropropane	96-12-8	ND		0.777	0.00	ND		0.777	0.00	ND		0.777	0.00
Dibromochloromethane	124-48-1	ND		0.0946	0.00	ND		0.0946	0.00	ND		0.0946	0.00
1,2-Dibromoethane	106-93-4	ND		0.0895	0.00	ND		0.0895	0.00	ND		0.0895	0.00
Dibromomethane	74-95-3	ND		0.0550	0.00	ND		0.0550	0.00	ND		0.0550	0.00
trans-1,4-Dichloro-2-butene	110-57-6	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
1,4-Dichlorobenzene	106-46-7	ND		0.0495	0.00	ND		0.0495	0.00	ND		0.0495	0.00
1,2-Dichlorobenzene	95-50-1	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
1,3-Dichlorobenzene	541-73-1	ND		0.0591	0.00	ND		0.0591	0.00	ND		0.0591	0.00
Dichlorodifluoromethane	75-71-8	ND		0.0930	0.00	ND		0.0930	0.00	ND		0.0930	0.00
1,1-Dichloroethane	75-34-3	ND		0.0445	0.00	ND		0.0445	0.00	ND		0.0445	0.00
1,2-Dichloroethane	107-06-2	ND		0.0632	0.00	ND		0.0632	0.00	ND		0.0632	0.00
1,1-Dichloroethene	75-35-4	ND		0.0492	0.00	ND		0.0492	0.00	0.0631	J	0.0492	0.00
cis-1,2-Dichloroethene	156-59-2	ND		0.0353	0.00	ND		0.0353	0.00	ND		0.0353	0.00
trans-1,2-Dichloroethene	156-60-5	ND		0.0430	0.00	ND		0.0430	0.00	ND		0.0430	0.00
1,2-Dichloropropane	78-87-5	ND		0.0519	0.00	ND		0.0519	0.00	ND		0.0519	0.00
1,3-Dichloropropane	142-28-9	ND		0.0401	0.00	ND		0.0401	0.00	ND		0.0401	0.00
2,2-Dichloropropane	594-20-7	ND		0.0492	0.00	ND		0.0492	0.00	ND		0.0492	0.00
1,1-Dichloropropene	563-58-6	ND		0.0374	0.00	ND		0.0374	0.00	ND		0.0374	0.00
cis-1,3-Dichloropropene	10061-01-5	ND		0.0526	0.00	ND		0.0526	0.00	ND		0.0526	0.00
trans-1,3-Dichloropropene	10061-02-6	ND		0.0486	0.00	ND		0.0486	0.00	ND		0.0486	0.00
Ethyl methacrylate	97-63-2	ND		0.0822	0.00	ND		0.0822	0.00	ND		0.0822	0.00
Ethylbenzene	100-41-4	ND		0.0469	0.00	ND		0.0469	0.00	ND		0.0469	0.00
Hexachloro-1,3-butadiene	87-68-3	ND		0.155	0.00	ND		0.155	0.00	ND		0.155	0.00
2-Hexanone	591-78-6	ND		0.838	0.00	ND		0.838	0.00	ND		0.838	0.00

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 224	0802 HBWW 225	0802 HBWW 226
Lab Sample ID	2020812303	2020812302	2020812304

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND		0.0452	0.00	ND		0.0452	0.00	ND		0.0452	0.00
Isopropylbenzene	98-82-8	ND		0.0769	0.00	ND		0.0769	0.00	ND		0.0769	0.00
4-Isopropyltoluene	99-87-6	ND		0.0899	0.00	ND		0.0899	0.00	ND		0.0899	0.00
Methyl methacrylate	80-62-6	ND		0.175	0.00	ND		0.175	0.00	ND		0.175	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.0619	0.00	ND		0.0619	0.00	ND		0.0619	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		0.473	0.00	ND		0.473	0.00	ND		0.473	0.00
Methylene chloride	75-09-2	ND		0.0210	0.00	ND		0.0210	0.00	ND		0.0210	0.00
Naphthalene	91-20-3	ND		0.0708	0.00	ND		0.0708	0.00	ND		0.0708	0.00
Propanenitrile	107-12-0	ND		0.652	0.00	ND		0.652	0.00	ND		0.652	0.00
n-Propylbenzene	103-65-1	ND		0.0698	0.00	ND		0.0698	0.00	ND		0.0698	0.00
Styrene	100-42-5	ND		0.0295	0.00	ND		0.0295	0.00	ND		0.0295	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.0578	0.00	ND		0.0578	0.00	ND		0.0578	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND		0.109	0.00	ND		0.109	0.00	ND		0.109	0.00
Tetrachloroethene	127-18-4	ND		0.103	0.00	ND		0.103	0.00	ND		0.103	0.00
Tetrahydrofuran	109-99-9	ND		1.28	0.00	ND		1.28	0.00	ND		1.28	0.00
Toluene	108-88-3	ND		0.0236	0.00	ND		0.0236	0.00	ND		0.0236	0.00
1,2,3-Trichlorobenzene	87-61-6	ND		0.110	0.00	ND		0.110	0.00	ND		0.110	0.00
1,2,4-Trichlorobenzene	120-82-1	ND		0.140	0.00	ND		0.140	0.00	ND		0.140	0.00
1,1,1-Trichloroethane	71-55-6	ND		0.0511	0.00	ND		0.0511	0.00	ND		0.0511	0.00
1,1,2-Trichloroethane	79-00-5	ND		0.0489	0.00	ND		0.0489	0.00	ND		0.0489	0.00
Trichloroethene	79-01-6	ND		0.0506	0.00	ND		0.0506	0.00	ND		0.0506	0.00
Trichlorofluoromethane	75-69-4	ND		0.0495	0.00	ND		0.0495	0.00	ND		0.0495	0.00
1,2,3-Trichloropropane	96-18-4	ND		0.117	0.00	ND		0.117	0.00	ND		0.117	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.0529	0.00	ND		0.0529	0.00	ND		0.0529	0.00
1,2,4-Trimethylbenzene	95-63-6	ND		0.0744	0.00	ND		0.0744	0.00	ND		0.0744	0.00
1,3,5-Trimethylbenzene	108-67-8	ND		0.0616	0.00	ND		0.0616	0.00	ND		0.0616	0.00
Vinyl acetate	108-05-4	ND		0.172	0.00	ND		0.172	0.00	ND		0.172	0.00
Vinyl chloride	75-01-4	ND		0.0501	0.00	ND		0.0501	0.00	ND		0.0501	0.00

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 224	0802 HBWW 225	0802 HBWW 226
Lab Sample ID	2020812303	2020812302	2020812304

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
p-Xylene/m-Xylene	106-42-3	ND		0.0869	0.00	ND		0.0869	0.00	ND		0.0869	0.00
o-Xylene	95-47-6	ND		0.0409	0.00	ND		0.0409	0.00	ND		0.0409	0.00

SECTION IV
Analytical Results
Surrogates

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 224	0802 HBWW 225	0802 HBWW 226
Lab Sample ID	2020812303	2020812302	2020812304
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/20/2002 14:15	08/20/2002 14:20	08/20/2002 12:30
Date/Time Prepared	08/21/2002 21:31	08/21/2002 21:00	08/21/2002 22:02
Date/Time Analyzed	08/21/2002 21:31	08/21/2002 21:00	08/21/2002 22:02
Dilution Factor	1.0000	1.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	102	77-117		101	77-117		105	77-117	
1,2-Dichloroethane-d4	90	61-143		90	61-143		91	61-143	
Toluene-d8	100	87-113		99	87-113		100	87-113	

SECTION IV
Analytical Results

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 234	0802 HBWW 998	TRIP BLANK - TB1
Lab Sample ID	2020812305	2020812308	2020812309
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/20/2002 14:55	08/20/2002 12:35	08/20/2002 00:00
Date/Time Prepared	08/21/2002 22:32	08/22/2002 00:05	08/22/2002 00:36
Date/Time Analyzed	08/21/2002 22:32	08/22/2002 00:05	08/22/2002 00:36
Dilution Factor	1.0000	1.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		1.26	0.00	ND		1.26	0.00	ND		1.26	0.00
Acetonitrile	75-05-8	ND		5.34	0.00	ND		5.34	0.00	ND		5.34	0.00
Acrolein	107-02-8	ND		2.84	0.00	ND		2.84	0.00	ND		2.84	0.00
Acrylonitrile	107-13-1	ND		0.290	0.00	ND		0.290	0.00	ND		0.290	0.00
Benzene	71-43-2	ND		0.0465	0.00	ND		0.0465	0.00	ND		0.0465	0.00
Bromobenzene	108-86-1	ND		0.0643	0.00	ND		0.0643	0.00	ND		0.0643	0.00
Bromochloromethane	74-97-5	ND		0.0449	0.00	ND		0.0449	0.00	ND		0.0449	0.00
Bromodichloromethane	75-27-4	ND		0.0528	0.00	ND		0.0528	0.00	ND		0.0528	0.00
Bromoform	75-25-2	ND		0.106	0.00	ND		0.106	0.00	ND		0.106	0.00
Bromomethane	74-83-9	ND		0.0454	0.00	ND		0.0454	0.00	ND		0.0454	0.00
2-Butanone (MEK)	78-93-3	ND		2.83	0.00	ND		2.83	0.00	ND		2.83	0.00
n-Butylbenzene	104-51-8	ND		0.0888	0.00	ND		0.0888	0.00	ND		0.0888	0.00
sec-Butylbenzene	135-98-8	ND		0.104	0.00	ND		0.104	0.00	ND		0.104	0.00
tert-Butylbenzene	98-06-6	ND		0.0934	0.00	ND		0.0934	0.00	ND		0.0934	0.00
Carbon disulfide	75-15-0	ND		0.0415	0.00	ND		0.0415	0.00	ND		0.0415	0.00
Carbon tetrachloride	56-23-5	ND		0.0553	0.00	ND		0.0553	0.00	ND		0.0553	0.00
2-Chloro-1,3-butadiene	126-99-8	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
Chlorobenzene	108-90-7	ND		0.0404	0.00	ND		0.0404	0.00	ND		0.0404	0.00
Chloroethane	75-00-3	ND		0.0755	0.00	ND		0.0755	0.00	ND		0.0755	0.00
Chloroform	67-66-3	ND		0.0338	0.00	ND		0.0338	0.00	ND		0.0338	0.00
1-Chlorohexane	544-10-5	ND		0.0798	0.00	ND		0.0798	0.00	ND		0.0798	0.00

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 234	0802 HBWW 998	TRIP BLANK - TB1
Lab Sample ID	2020812305	2020812308	2020812309

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Chloromethane	74-87-3	ND		0.0509	0.00	ND		0.0509	0.00	ND		0.0509	0.00
3-Chloropropene	107-05-1	ND		0.0785	0.00	ND		0.0785	0.00	ND		0.0785	0.00
2-Chlorotoluene	95-49-8	ND		0.0359	0.00	ND		0.0359	0.00	ND		0.0359	0.00
4-Chlorotoluene	106-43-4	ND		0.0684	0.00	ND		0.0684	0.00	ND		0.0684	0.00
1,2-Dibromo-3-chloropropane	96-12-8	ND		0.777	0.00	ND		0.777	0.00	ND		0.777	0.00
Dibromochloromethane	124-48-1	ND		0.0946	0.00	ND		0.0946	0.00	ND		0.0946	0.00
1,2-Dibromoethane	106-93-4	ND		0.0895	0.00	ND		0.0895	0.00	ND		0.0895	0.00
Dibromomethane	74-95-3	ND		0.0550	0.00	ND		0.0550	0.00	ND		0.0550	0.00
trans-1,4-Dichloro-2-butene	110-57-6	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
1,4-Dichlorobenzene	106-46-7	ND		0.0495	0.00	ND		0.0495	0.00	ND		0.0495	0.00
1,2-Dichlorobenzene	95-50-1	ND		0.0596	0.00	ND		0.0596	0.00	ND		0.0596	0.00
1,3-Dichlorobenzene	541-73-1	ND		0.0591	0.00	ND		0.0591	0.00	ND		0.0591	0.00
Dichlorodifluoromethane	75-71-8	ND		0.0930	0.00	ND		0.0930	0.00	ND		0.0930	0.00
1,1-Dichloroethane	75-34-3	ND		0.0445	0.00	ND		0.0445	0.00	ND		0.0445	0.00
1,2-Dichloroethane	107-06-2	ND		0.0632	0.00	ND		0.0632	0.00	ND		0.0632	0.00
1,1-Dichloroethene	75-35-4	ND		0.0492	0.00	0.119	J	0.0492	0.00	ND		0.0492	0.00
cis-1,2-Dichloroethene	156-59-2	ND		0.0353	0.00	ND		0.0353	0.00	ND		0.0353	0.00
trans-1,2-Dichloroethene	156-60-5	ND		0.0430	0.00	ND		0.0430	0.00	ND		0.0430	0.00
1,2-Dichloropropane	78-87-5	ND		0.0519	0.00	ND		0.0519	0.00	ND		0.0519	0.00
1,3-Dichloropropane	142-28-9	ND		0.0401	0.00	ND		0.0401	0.00	ND		0.0401	0.00
2,2-Dichloropropane	594-20-7	ND		0.0492	0.00	ND		0.0492	0.00	ND		0.0492	0.00
1,1-Dichloropropene	563-58-6	ND		0.0374	0.00	ND		0.0374	0.00	ND		0.0374	0.00
cis-1,3-Dichloropropene	10061-01-5	ND		0.0526	0.00	ND		0.0526	0.00	ND		0.0526	0.00
trans-1,3-Dichloropropene	10061-02-6	ND		0.0486	0.00	ND		0.0486	0.00	ND		0.0486	0.00
Ethyl methacrylate	97-63-2	ND		0.0822	0.00	ND		0.0822	0.00	ND		0.0822	0.00
Ethylbenzene	100-41-4	ND		0.0469	0.00	ND		0.0469	0.00	ND		0.0469	0.00
Hexachloro-1,3-butadiene	87-68-3	ND		0.155	0.00	ND		0.155	0.00	ND		0.155	0.00
2-Hexanone	591-78-6	ND		0.838	0.00	ND		0.838	0.00	ND		0.838	0.00

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 234	0802 HBWW 998	TRIP BLANK - TB1
Lab Sample ID	2020812305	2020812308	2020812309

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Iodomethane	74-88-4	ND		0.0452	0.00	ND		0.0452	0.00	ND		0.0452	0.00
Isopropylbenzene	98-82-8	ND		0.0769	0.00	ND		0.0769	0.00	ND		0.0769	0.00
4-Isopropyltoluene	99-87-6	ND		0.0899	0.00	ND		0.0899	0.00	ND		0.0899	0.00
Methyl methacrylate	80-62-6	ND		0.175	0.00	ND		0.175	0.00	ND		0.175	0.00
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.0619	0.00	ND		0.0619	0.00	ND		0.0619	0.00
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		0.473	0.00	ND		0.473	0.00	ND		0.473	0.00
Methylene chloride	75-09-2	ND		0.0210	0.00	ND		0.0210	0.00	0.424	J	0.0210	0.00
Naphthalene	91-20-3	ND		0.0708	0.00	ND		0.0708	0.00	ND		0.0708	0.00
Propanenitrile	107-12-0	ND		0.652	0.00	ND		0.652	0.00	ND		0.652	0.00
n-Propylbenzene	103-65-1	ND		0.0698	0.00	ND		0.0698	0.00	ND		0.0698	0.00
Styrene	100-42-5	ND		0.0295	0.00	ND		0.0295	0.00	ND		0.0295	0.00
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.0578	0.00	ND		0.0578	0.00	ND		0.0578	0.00
1,1,2,2-Tetrachloroethane	79-34-5	ND		0.109	0.00	ND		0.109	0.00	ND		0.109	0.00
Tetrachloroethene	127-18-4	ND		0.103	0.00	ND		0.103	0.00	ND		0.103	0.00
Tetrahydrofuran	109-99-9	ND		1.28	0.00	ND		1.28	0.00	ND		1.28	0.00
Toluene	108-88-3	ND		0.0236	0.00	ND		0.0236	0.00	ND		0.0236	0.00
1,2,3-Trichlorobenzene	87-61-6	ND		0.110	0.00	ND		0.110	0.00	ND		0.110	0.00
1,2,4-Trichlorobenzene	120-82-1	ND		0.140	0.00	ND		0.140	0.00	ND		0.140	0.00
1,1,1-Trichloroethane	71-55-6	ND		0.0511	0.00	ND		0.0511	0.00	ND		0.0511	0.00
1,1,2-Trichloroethane	79-00-5	ND		0.0489	0.00	ND		0.0489	0.00	ND		0.0489	0.00
Trichloroethene	79-01-6	ND		0.0506	0.00	ND		0.0506	0.00	ND		0.0506	0.00
Trichlorofluoromethane	75-69-4	ND		0.0495	0.00	ND		0.0495	0.00	ND		0.0495	0.00
1,2,3-Trichloropropane	96-18-4	ND		0.117	0.00	ND		0.117	0.00	ND		0.117	0.00
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.0529	0.00	ND		0.0529	0.00	ND		0.0529	0.00
1,2,4-Trimethylbenzene	95-63-6	ND		0.0744	0.00	ND		0.0744	0.00	ND		0.0744	0.00
1,3,5-Trimethylbenzene	108-67-8	ND		0.0616	0.00	ND		0.0616	0.00	ND		0.0616	0.00
Vinyl acetate	108-05-4	ND		0.172	0.00	ND		0.172	0.00	ND		0.172	0.00
Vinyl chloride	75-01-4	ND		0.0501	0.00	ND		0.0501	0.00	ND		0.0501	0.00

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 234	0802 HBWW 998	TRIP BLANK - TB1
Lab Sample ID	2020812305	2020812308	2020812309

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
p-Xylene/m-Xylene	106-42-3	ND		0.0869	0.00	ND		0.0869	0.00	ND		0.0869	0.00
o-Xylene	95-47-6	ND		0.0409	0.00	ND		0.0409	0.00	ND		0.0409	0.00

SECTION IV
Analytical Results
Surrogates

MS-VOA
SW8260B

Client Sample ID	0802 HBWW 234	0802 HBWW 998	TRIP BLANK - TB1
Lab Sample ID	2020812305	2020812308	2020812309
Matrix	Aqueous	Aqueous	Aqueous
Reported As	RECEIVED	RECEIVED	RECEIVED
% Moisture	NA	NA	NA
Date/Time Collected	08/20/2002 14:55	08/20/2002 12:35	08/20/2002 00:00
Date/Time Prepared	08/21/2002 22:32	08/22/2002 00:05	08/22/2002 00:36
Date/Time Analyzed	08/21/2002 22:32	08/22/2002 00:05	08/22/2002 00:36
Dilution Factor	1.0000	1.0000	1.0000
Instrument	MSDA	MSDA	MSDA
Units	ug/L	ug/L	ug/L

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	104	77-117		106	77-117		104	77-117	
1,2-Dichloroethane-d4	92	61-143		93	61-143		88	61-143	
Toluene-d8	101	87-113		99	87-113		99	87-113	

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37627 **Instrument Data File:** A0821202.D **Date/Time Analyzed:** 08/21/2002 13:43
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
Acetone	20	16.2		81		
Acetonitrile	100	114		114		
Acrolein	100	77.3		77		
Acrylonitrile	100	98.2		98		
Benzene	20	19.1		95		
Bromobenzene	20	20.3		102		
Bromochloromethane	20	18.4		92		
Bromodichloromethane	20	18.8		94		
Bromoform	20	20.6		103		
Bromomethane	20	20.6		103		
2-Butanone (MEK)	20	20.8		104		
n-Butylbenzene	20	22.4		112		
sec-Butylbenzene	20	21.9		109		
tert-Butylbenzene	20	20.6		103		
Carbon disulfide	20	18.7		94		
Carbon tetrachloride	20	18.5		92		
2-Chloro-1,3-butadiene	20	21.7		109		
Chlorobenzene	20	20.6		103		
Chloroethane	20	22.0		110		
Chloroform	20	17.9		89		80-120
1-Chlorohexane	20	26.1		130		
Chloromethane	20	20.5		103		
3-Chloropropene	20	22.6		113		
2-Chlorotoluene	20	21.0		105		
4-Chlorotoluene	20	21.6		108		
1,2-Dibromo-3-chloropropane	20	20.3		102		

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37627 **Instrument Data File:** A0821202.D **Date/Time Analyzed:** 08/21/2002 13:43
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Continued

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
Dibromochloromethane	20	19.8		99		
1,2-Dibromoethane	20	21.4		107		
Dibromomethane	20	19.5		98		
trans-1,4-Dichloro-2-butene	20	24.2		121		
1,4-Dichlorobenzene	20	19.4		97		
1,2-Dichlorobenzene	20	19.6		98		
1,3-Dichlorobenzene	20	20.1		101		
Dichlorodifluoromethane	20	13.6		68		
1,1-Dichloroethane	20	17.9		89		
1,2-Dichloroethane	20	16.2		81		
1,1-Dichloroethene	20	18.9		94		80-120
cis-1,2-Dichloroethene	20	19.7		98		
trans-1,2-Dichloroethene	20	18.7		93		
1,2-Dichloropropane	20	20.3		102		80-120
1,3-Dichloropropane	20	21.0		105		
2,2-Dichloropropane	20	25.4		127		
1,1-Dichloropropene	20	19.8		99		
cis-1,3-Dichloropropene	20	21.2		106		
trans-1,3-Dichloropropene	20	23.3		116		
Ethyl methacrylate	20	23.8		119		
Ethylbenzene	20	22.4		112		80-120
Hexachloro-1,3-butadiene	20	16.1		80		
2-Hexanone	20	24.3		121		
Iodomethane	20	17.4		87		
Isopropylbenzene	20	20.8		104		
4-Isopropyltoluene	20	21.2		106		

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37627 **Instrument Data File:** A0821202.D **Date/Time Analyzed:** 08/21/2002 13:43
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Continued

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
Methyl methacrylate	20	23.1		116		
Methyl tert-butyl ether (MTBE)	20	19.6		98		
4-Methyl-2-pentanone (MIBK)	20	23.0		115		
Methylene chloride	20	18.6		93		
Naphthalene	20	18.6		93		
Propanenitrile	100	96.2		96		
n-Propylbenzene	20	21.9		110		
Styrene	20	22.3		111		
1,1,1,2-Tetrachloroethane	20	20.8		104		
1,1,2,2-Tetrachloroethane	20	21.1		106		
Tetrachloroethene	20	22.0		110		
Tetrahydrofuran	20	25.5		128		
Toluene	20	21.5		108		80-120
1,2,3-Trichlorobenzene	20	17.0		85		
1,2,4-Trichlorobenzene	20	18.5		92		
1,1,1-Trichloroethane	20	19.2		96		
1,1,2-Trichloroethane	20	21.2		106		
Trichloroethene	20	19.2		96		
Trichlorofluoromethane	20	25.0		125		
1,2,3-Trichloropropane	20	21.2		106		
1,1,2-Trichlorotrifluoroethane	20	20.1		100		
1,2,4-Trimethylbenzene	20	21.5		107		
1,3,5-Trimethylbenzene	20	21.9		110		
Vinyl acetate	20	24.9		124		
Vinyl chloride	20	20.5		102		80-120
p-Xylene/m-Xylene	40	43.4		108		

SECTION V
Calibration and QC Information
Calibration Verification Results

MS-VOA
SW8260B

Sample Type: Continuing Calibration Check
Analysis Batch ID: 37627 **Instrument Data File:** A0821202.D **Date/Time Analyzed:** 08/21/2002 13:43
Instrument ID: MSDA **Analyst:** BJP **Units:** ug/L

Continued

Parameter	Reference Value	Measured Conc	Flag	%Recovery	Flag	QC Limits %Recovery
o-Xylene	20	21.7		108		

SECTION V
Calibration and QC Information
Mass Spectrometer Tune

MS-VOA
SW8260B
BFB

Analysis Batch ID: 37627 **Instrument Data File:** A0821202.D **Date Analyzed:** 08/21/2002 13:43
Instrument ID: MSDA **Injection Time:** 08/21/2002 13:43 **Analyst:** BJP

Mass/Energy	Ion Abundance Criteria		% Relative Abundance
	Lower Limit	Upper Limit	
50	15	40	27.5
75	30	60	39.5
95	100	100	100
96	5	9	6.7
173	0	2	0
174	50		85.7
175	5	9	6.6
176	95	101	98.3
177	5	9	6.6

SECTION V
Calibration and QC Information
Method Blank Results

MS-VOA
SW8260B

Method Blank ID	1041690		
Sample Type	Method Blank		
Matrix	Aqueous		
Date/Time Prepared	08/21/2002 15:52		
Date/Time Analyzed	08/21/2002 15:52		
Instrument	MSDA		
Units	ug/L		

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
Acetone	67-64-1	ND		1.26	0.00								
Acetonitrile	75-05-8	ND		5.34	0.00								
Acrolein	107-02-8	ND		2.84	0.00								
Acrylonitrile	107-13-1	ND		0.290	0.00								
Benzene	71-43-2	ND		0.0465	0.00								
Bromobenzene	108-86-1	ND		0.0643	0.00								
Bromochloromethane	74-97-5	ND		0.0449	0.00								
Bromodichloromethane	75-27-4	ND		0.0528	0.00								
Bromoform	75-25-2	ND		0.106	0.00								
Bromomethane	74-83-9	ND		0.0454	0.00								
2-Butanone (MEK)	78-93-3	ND		2.83	0.00								
n-Butylbenzene	104-51-8	ND		0.0888	0.00								
sec-Butylbenzene	135-98-8	ND		0.104	0.00								
tert-Butylbenzene	98-06-6	ND		0.0934	0.00								
Carbon disulfide	75-15-0	ND		0.0415	0.00								
Carbon tetrachloride	56-23-5	ND		0.0553	0.00								
2-Chloro-1,3-butadiene	126-99-8	ND		0.0596	0.00								
Chlorobenzene	108-90-7	ND		0.0404	0.00								
Chloroethane	75-00-3	ND		0.0755	0.00								
Chloroform	67-66-3	ND		0.0338	0.00								
1-Chlorohexane	544-10-5	ND		0.0798	0.00								
Chloromethane	74-87-3	ND		0.0509	0.00								
3-Chloropropene	107-05-1	ND		0.0785	0.00								
2-Chlorotoluene	95-49-8	ND		0.0359	0.00								
4-Chlorotoluene	106-43-4	ND		0.0684	0.00								

SECTION V
Calibration and QC Information
Method Blank Results

MS-VOA
SW8260B

Method Blank ID	1041690		

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
1,2-Dibromo-3-chloropropane	96-12-8	ND		0.777	0.00								
Dibromochloromethane	124-48-1	ND		0.0946	0.00								
1,2-Dibromoethane	106-93-4	ND		0.0895	0.00								
Dibromomethane	74-95-3	ND		0.0550	0.00								
trans-1,4-Dichloro-2-butene	110-57-6	ND		0.0596	0.00								
1,4-Dichlorobenzene	106-46-7	ND		0.0495	0.00								
1,2-Dichlorobenzene	95-50-1	ND		0.0596	0.00								
1,3-Dichlorobenzene	541-73-1	ND		0.0591	0.00								
Dichlorodifluoromethane	75-71-8	ND		0.0930	0.00								
1,1-Dichloroethane	75-34-3	ND		0.0445	0.00								
1,2-Dichloroethane	107-06-2	ND		0.0632	0.00								
1,1-Dichloroethene	75-35-4	ND		0.0492	0.00								
cis-1,2-Dichloroethene	156-59-2	ND		0.0353	0.00								
trans-1,2-Dichloroethene	156-60-5	ND		0.0430	0.00								
1,2-Dichloropropane	78-87-5	ND		0.0519	0.00								
1,3-Dichloropropane	142-28-9	ND		0.0401	0.00								
2,2-Dichloropropane	594-20-7	ND		0.0492	0.00								
1,1-Dichloropropene	563-58-6	ND		0.0374	0.00								
cis-1,3-Dichloropropene	10061-01-5	ND		0.0526	0.00								
trans-1,3-Dichloropropene	10061-02-6	ND		0.0486	0.00								
Ethyl methacrylate	97-63-2	ND		0.0822	0.00								
Ethylbenzene	100-41-4	ND		0.0469	0.00								
Hexachloro-1,3-butadiene	87-68-3	ND		0.155	0.00								
2-Hexanone	591-78-6	ND		0.838	0.00								
Iodomethane	74-88-4	ND		0.0452	0.00								
Isopropylbenzene	98-82-8	ND		0.0769	0.00								
4-Isopropyltoluene	99-87-6	ND		0.0899	0.00								
Methyl methacrylate	80-62-6	ND		0.175	0.00								
Methyl tert-butyl ether (MTBE)	1634-04-4	ND		0.0619	0.00								

SECTION V
Calibration and QC Information
Method Blank Results

MS-VOA
SW8260B

Method Blank ID	1041690		

Continued

Parameter	CAS	Conc	Flag	DL	RL	Conc	Flag	DL	RL	Conc	Flag	DL	RL
4-Methyl-2-pentanone (MIBK)	108-10-1	ND		0.473	0.00								
Methylene chloride	75-09-2	ND		0.0210	0.00								
Naphthalene	91-20-3	ND		0.0708	0.00								
Propanenitrile	107-12-0	ND		0.652	0.00								
n-Propylbenzene	103-65-1	ND		0.0698	0.00								
Styrene	100-42-5	ND		0.0295	0.00								
1,1,1,2-Tetrachloroethane	630-20-6	ND		0.0578	0.00								
1,1,2,2-Tetrachloroethane	79-34-5	ND		0.109	0.00								
Tetrachloroethene	127-18-4	ND		0.103	0.00								
Tetrahydrofuran	109-99-9	ND		1.28	0.00								
Toluene	108-88-3	ND		0.0236	0.00								
1,2,3-Trichlorobenzene	87-61-6	ND		0.110	0.00								
1,2,4-Trichlorobenzene	120-82-1	ND		0.140	0.00								
1,1,1-Trichloroethane	71-55-6	ND		0.0511	0.00								
1,1,2-Trichloroethane	79-00-5	ND		0.0489	0.00								
Trichloroethene	79-01-6	ND		0.0506	0.00								
Trichlorofluoromethane	75-69-4	ND		0.0495	0.00								
1,2,3-Trichloropropane	96-18-4	ND		0.117	0.00								
1,1,2-Trichlorotrifluoroethane	76-13-1	ND		0.0529	0.00								
1,2,4-Trimethylbenzene	95-63-6	ND		0.0744	0.00								
1,3,5-Trimethylbenzene	108-67-8	ND		0.0616	0.00								
Vinyl acetate	108-05-4	ND		0.172	0.00								
Vinyl chloride	75-01-4	ND		0.0501	0.00								
p-Xylene/m-Xylene	106-42-3	ND		0.0869	0.00								
o-Xylene	95-47-6	ND		0.0409	0.00								

SECTION V
Calibration and QC Information
Method Blank Results

MS-VOA
SW8260B

Method Blank ID	1041690		
Sample Type	Method Blank		
Matrix	Aqueous		
Date/Time Prepared	08/21/2002 15:52		
Date/Time Analyzed	08/21/2002 15:52		
Instrument	MSDA		
Units	ug/L		

Surrogate Compound	% Recovery	Limits	F	% Recovery	Limits	F	% Recovery	Limits	F
1-Bromo-4-fluorobenzene	103	77-117							
1,2-Dichloroethane-d4	90	61-143							
Toluene-d8	100	87-113							

SECTION V
Calibration and QC Information
Control Sample Results

MS-VOA
SW8260B

Client Sample ID:	LCS for HBN 37627 [MSV/1953]	**Instrument ID:**	MSDA	**% Moisture:**	NA
Prep Batch ID:	37627	**Units:**	ug/L	**Analyst:**	BJP
Analysis Batch ID:	37627	**Matrix:**	Aqueous		

	Control Sample			Control Sample Duplicate					
	Lab ID: 1041688			Lab ID: 1041689				QC Limits	
	File ID: A0821203.D			File ID: A0821204.D					
Parameter	**Spk Amt**	**Conc**	**%Rec Flg**	**Spk Amt**	**Conc**	**%Rec Flg**	**RPD Flg**	**%Rec**	**RPD**
Acetone	20	17.6	88	20	19.4	97	9.7	0.1-240	71
Benzene	20	20.2	101	20	20.9	105	3.9	71-133	17
Bromobenzene	20	18.6	93	20	18.8	94	1.1	67-127	12
Bromochloromethane	20	16.4	82	20	17.1	86	4.8	61-145	21
Bromodichloromethane	20	16.4	82	20	17.0	85	3.6	57-135	19
Bromoform	20	20.1	100	20	19.5	98	2	23-151	17
Bromomethane	20	16.7	84	20	17.4	87	3.5	34-128	25
2-Butanone (MEK)	20	19.3	96	20	24.6	123	25	0.1-214	39
n-Butylbenzene	20	21.7	108	20	21.6	108	0	28-184	30
sec-Butylbenzene	20	20.6	103	20	20.4	102	1	45-160	31
tert-Butylbenzene	20	19.7	99	20	19.4	97	2	65-148	27
Carbon disulfide	20	16.8	84	20	17.4	87	3.5	29-223	23
Carbon tetrachloride	20	16.6	83	20	17.0	85	2.4	46-150	23
Chlorobenzene	20	19.7	99	20	19.8	99	0	77-129	14
Chloroethane	20	22.5	112	20	22.8	114	1.8	39-133	27
Chloroform	20	17.0	85	20	18.0	90	5.7	64-146	16
Chloromethane	20	17.8	89	20	18.0	90	1.1	18-140	26
2-Chlorotoluene	20	19.8	99	20	19.4	97	2	70-136	24
4-Chlorotoluene	20	20.3	101	20	20.0	100	1	74-132	23
1,2-Dibromo-3-chloropropane	20	18.5	93	20	19.9	100	7.2	39-171	25
Dibromochloromethane	20	18.9	94	20	18.7	93	1.1	45-137	15
1,2-Dibromoethane	20	20.4	102	20	20.2	101	1	19-187	19
Dibromomethane	20	18.1	90	20	19.2	96	6.4	52-138	21
1,4-Dichlorobenzene	20	18.2	91	20	18.6	93	2.2	70-132	13

SECTION V
Calibration and QC Information
Control Sample Results

MS-VOA
SW8260B

Parameter	Control Sample continued Lab ID: 1041688 File ID: A0821203.D Spk Amt	Conc	%Rec Flg	Control Sample Duplicate continued Lab ID: 1041689 File ID: A0821204.D Spk Amt	Conc	%Rec Flg	RPD Flg	QC Limits %Rec	RPD
1,2-Dichlorobenzene	20	18.3	92	20	18.3	91	1.1	67-135	14
1,3-Dichlorobenzene	20	19.1	95	20	18.7	94	1	68-134	14
Dichlorodifluoromethane	20	10.3	52	20	10.8	54	3.8	0.1-166	26
1,1-Dichloroethane	20	16.6	83	20	17.3	86	3.6	66-138	19
1,2-Dichloroethane	20	14.8	74	20	15.4	77	4	48-152	23
1,1-Dichloroethene	20	17.7	88	20	18.6	93	5.5	47-175	25
cis-1,2-Dichloroethene	20	18.3	91	20	19.0	95	4.3	66-144	18
trans-1,2-Dichloroethene	20	17.6	88	20	18.5	92	4.4	62-146	22
1,2-Dichloropropane	20	18.8	94	20	19.5	97	3.1	61-133	17
1,3-Dichloropropane	20	19.7	99	20	19.9	100	1	70-128	16
2,2-Dichloropropane	20	23.6	118	20	24.2	121	2.5	40-168	30
1,1-Dichloropropene	20	18.8	94	20	19.2	96	2.1	71-155	31
cis-1,3-Dichloropropene	20	19.6	98	20	20.1	100	2	36-142	16
trans-1,3-Dichloropropene	20	21.4	107	20	21.7	108	0.9	34-138	21
Ethylbenzene	20	21.4	107	20	21.1	105	1.9	75-131	14
Hexachloro-1,3-butadiene	20	14.9	75	20	14.5	72	4.1	46-150	34
2-Hexanone	20	24.6	123	20	24.4	122	0.8	22-164	34
Iodomethane	20	16.5	82	20	17.2	86	4.8		
Isopropylbenzene	20	19.7	98	20	19.9	99	1	54-152	26
4-Isopropyltoluene	20	20.2	101	20	20.3	102	1	41-165	28
4-Methyl-2-pentanone (MIBK)	20	22.7	114	20	23.1	116	1.7	27-149	36
Methylene chloride	20	17.5	87	20	17.5	87	0	36-166	23
Naphthalene	20	18.7	94	20	18.8	94	0	32-172	22
n-Propylbenzene	20	21.0	105	20	20.7	104	1	61-143	28
Styrene	20	21.6	108	20	21.4	107	0.9	68-136	14
1,1,1,2-Tetrachloroethane	20	18.8	94	20	18.9	94	0	63-141	20
1,1,2,2-Tetrachloroethane	20	20.0	100	20	19.6	98	2	47-143	20
Tetrachloroethene	20	21.0	105	20	20.7	103	1.9	69-137	16
Toluene	20	20.4	102	20	20.7	104	1.9	70-132	17
1,2,3-Trichlorobenzene	20	17.4	87	20	17.5	88	1.1	66-140	20
1,2,4-Trichlorobenzene	20	17.8	89	20	18.2	91	2.2	66-144	22

SECTION V
Calibration and QC Information
Control Sample Results

MS-VOA
SW8260B

	Control Sample continued			Control Sample Duplicate continued					
	Lab ID: 1041688			Lab ID: 1041689				QC Limits	
	File ID: A0821203.D			File ID: A0821204.D					
Parameter	Spk Amt	Conc	%Rec Flg	Spk Amt	Conc	%Rec Flg	RPD Flg	%Rec	RPD
1,1,1-Trichloroethane	20	17.4	87	20	17.9	89	2.3	49-155	24
1,1,2-Trichloroethane	20	19.4	97	20	19.7	98	1	67-135	17
Trichloroethene	20	17.8	89	20	18.6	93	4.4	71-129	17
Trichlorofluoromethane	20	22.0	110	20	23.2	116	5.3	39-147	29
1,2,3-Trichloropropane	20	20.0	100	20	20.2	101	1	64-140	18
1,2,4-Trimethylbenzene	20	19.9	100	20	19.9	99	1	54-156	25
1,3,5-Trimethylbenzene	20	20.8	104	20	20.8	104	0	62-144	25
Vinyl acetate	20	4.01	20	20	4.13	21	4.9	0.1-164	31
Vinyl chloride	20	16.5	82	20	16.8	84	2.4	24-138	27
p-Xylene/m-Xylene	40	41.3	103	40	41.7	104	1	76-134	15
o-Xylene	20	20.5	102	20	20.6	103	1	77-131	15

SECTION V
Calibration and QC Information
Control Sample Results

MS-VOA
SW8260B

	Lab ID: 1041688		Lab ID: 1041689		
Surrogate Compounds	%Recovery	Flags	%Recovery	Flags	QC Recovery Limits
1-Bromo-4-fluorobenzene	107		106		77-117
1,2-Dichloroethane-d4	86		88		61-143
Toluene-d8	100		101		87-113

SECTION VI
Batch Summaries

Extraction/Digestion Batch Summary
MS-VOA
SW8260B

Extraction Batch ID: 37627

Start Date/Time: 08/21/2002 13:43
Stop Date/Time: 08/22/2002 03:39

Analyst: BJP

Client Sample ID	Lab Sample ID	Sample Type	Matrix	Sample Size Initial	Sample Size Final	Preparation Method
INSTRUMENT QC	1000	GC/MS Tune	Aqueous	15 mL	15 mL	SW8260B
INSTRUMENT QC	1406	Continuing Calibration Check	Aqueous	15 mL	15 mL	SW8260B
LCS for HBN 37627 [MSV/1953]	1041688	Lab Control Sample	Aqueous	15 mL	15 mL	SW8260B
LCSD for HBN 37627 [MSV/1953]	1041689	Lab Control Sample Duplicate	Aqueous	15 mL	15 mL	SW8260B
MB for HBN 37627 [MSV/1953]	1041690	Method Blank	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020807101	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020807102	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020807103	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020807105	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020807107	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020807108	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020807110	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020807111	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 220	2020812301	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 225	2020812302	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 224	2020812303	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 226	2020812304	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 234	2020812305	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 216	2020812306	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 222	2020812307	Field Sample	Aqueous	15 mL	15 mL	SW8260B
0802 HBWW 998	2020812308	Field Sample	Aqueous	15 mL	15 mL	SW8260B
TRIP BLANK - TB1	2020812309	Field Sample	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	2020807104	Field Sample	Aqueous	15 mL	15 mL	SW8260B
INSTRUMENT QC	1000	GC/MS Tune	Aqueous	15 mL	15 mL	SW8260B
INSTRUMENT QC	1406	Continuing Calibration Check	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	1041691	Matrix Spike	Aqueous	15 mL	15 mL	SW8260B
ZZZZZZZZZZ	1041692	Matrix Spike Duplicate	Aqueous	15 mL	15 mL	SW8260B

SECTION VI
Batch Summaries

Analysis Batch Summary
MS-VOA
SW8260B

Analysis Batch ID: 37627 **Instrument ID:** MSDA **Analyst:** BJP

Sequence	Client Sample ID	Lab Sample ID	Analysis Date	Analysis Time	Sample Type	Analysis File ID	Sub-Batch ID
1	INSTRUMENT QC	1000	08/21/2002	13:43:00	GC/MS Tune	A0821202.D	0
2	INSTRUMENT QC	1406	08/21/2002	13:43:00	Continuing Calibration Check	A0821202.D	0
3	LCS for HBN 37627 [MSV/1953]	1041688	08/21/2002	14:21:00	Lab Control Sample	A0821203.D	0
4	LCSD for HBN 37627 [MSV/1953]	1041689	08/21/2002	14:51:00	Lab Control Sample Duplicate	A0821204.D	0
5	MB for HBN 37627 [MSV/1953]	1041690	08/21/2002	15:52:00	Method Blank	A0821206.D	0
6	ZZZZZZZZZZ	2020807101	08/21/2002	16:23:00	Field Sample	A0821207.D	0
7	ZZZZZZZZZZ	2020807102	08/21/2002	16:54:00	Field Sample	A0821208.D	0
8	ZZZZZZZZZZ	2020807103	08/21/2002	17:25:00	Field Sample	A0821209.D	0
9	ZZZZZZZZZZ	2020807105	08/21/2002	17:56:00	Field Sample	A0821210.D	0
10	ZZZZZZZZZZ	2020807107	08/21/2002	18:27:00	Field Sample	A0821211.D	0
11	ZZZZZZZZZZ	2020807108	08/21/2002	18:58:00	Field Sample	A0821212.D	0
12	ZZZZZZZZZZ	2020807110	08/21/2002	19:28:00	Field Sample	A0821213.D	0
13	ZZZZZZZZZZ	2020807111	08/21/2002	19:59:00	Field Sample	A0821214.D	0
14	0802 HBWW 220	2020812301	08/21/2002	20:30:00	Field Sample	A0821215.D	0
15	0802 HBWW 225	2020812302	08/21/2002	21:00:00	Field Sample	A0821216.D	0
16	0802 HBWW 224	2020812303	08/21/2002	21:31:00	Field Sample	A0821217.D	0
17	0802 HBWW 226	2020812304	08/21/2002	22:02:00	Field Sample	A0821218.D	0
18	0802 HBWW 234	2020812305	08/21/2002	22:32:00	Field Sample	A0821219.D	0
19	0802 HBWW 216	2020812306	08/21/2002	23:03:00	Field Sample	A0821220.D	0
20	0802 HBWW 222	2020812307	08/21/2002	23:34:00	Field Sample	A0821221.D	0
21	0802 HBWW 998	2020812308	08/22/2002	00:05:00	Field Sample	A0821222.D	0
22	TRIP BLANK - TB1	2020812309	08/22/2002	00:36:00	Field Sample	A0821223.D	0
23	ZZZZZZZZZZ	2020807104	08/22/2002	01:06:00	Field Sample	A0821224.D	0
24	INSTRUMENT QC	1000	08/22/2002	02:38:00	GC/MS Tune	A0821227.D	0
25	INSTRUMENT QC	1406	08/22/2002	02:38:00	Continuing Calibration Check	A0821227.D	0
26	ZZZZZZZZZZ	1041691	08/22/2002	03:09:00	Matrix Spike	A0821228.D	0
27	ZZZZZZZZZZ	1041692	08/22/2002	03:39:00	Matrix Spike Duplicate	A0821229.D	0

SECTION VII
Certifications

State/Agency	ID #
Arkansas Department of Environmental Quality	
California Environmental Laboratory Accreditation Program / Waste Water/Hazardous Waste	2411
Connecticut Department of Health/Waste Water/Trade Waste, Sewage/Effluent, Soil	PH-0761
Kansas Department of Health and Environment / Solid and Hazardous Waste	E-10165
Louisiana Department of Environmental Quality, ELAP / Waste Water/Hazardous Waste/Air Emissions	30736
Montana Department of Environmental Quality/Petroleum Release Section	Participating Laboratory
New York State Department of Health /Waste Water/Hazardous Waste/Air	10915
North Carolina Dept. of Natural Resources & Community Development / Waste Water	302
Oklahoma Department of Environmental Quality/General Water Quality/Sludge	8720
South Carolina Dept. of Health & Environmental Control	82003
Texas(TNRCC)	Participating Laboratory
Texas Department of Public Safety/Precursor Chemical and Lab Apparatus	3039
Wisconsin Department of Natural Resources	999885260
US Air Force/AFCEE	Participating Laboratory
US Army Corps of Engineers (MRD,ACE)	Participating Laboratory
US Department of Agriculture / Restricted Soils Permit	S-42350
US Navy(NFESC)	Participating Laboratory

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: 20208123

COC NUMBER: 1133

QUOTE/PROFILE:

RECEIVED BY: JAMES CARTER

DATE/TIME RECEIVED: 8/21/02 – 0830

UNPACKED DATE/TIME: 8/21/02 – 1015

CLIENT/PROJECT: HB-PS

SAMPLES LOGGED IN: JG

LOG-IN REVISED:

Number of Shipping Containers Received with Chain of Custody: 1

VOC AIR SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: JG

Container Sealed: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO

Custody Seal Signed/Dated: ☑ YES ☐ NO

If seal not intact, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO

Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

See Additional Comments: ☐ YES ☐ NO

Packing Material Used: (circle)
None / Absorbent / Paper / Bubble Wrap

Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT: JG **PYROMETER #:** P4

The temperature of the container(s) is: *(acceptable tolerance 1-4°C)*

4.0°C										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____

OK to analyze samples: ☑ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☑ NA ☐ YES **VERIFIED BY:**

Base samples are>pH 12: ☐ YES ☐ NO

Acid preserved are<pH 2: ☐ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation/temperature (°C) is outside acceptable tolerance, Project Manager was notified (_____PM)
Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: [illegible]

Samples received match COC: ☑ YES ☐ NO

Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO

Samples received from USDA restricted area: ☐ YES ☑ NO

VOA trip blanks included: ☑ YES ☐ NO ☐ N/A 2x4 oral

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Client COC is "received"; i.e., signed and dated with time of receipt. ☑ YES

COC Addendum number is noted in the 'Comments' section of COC, as required for Horizon LIMS. ☑ YES ☐ N/A

Project Management: [illegible] Date: 8-21-02

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

FedEx Express USA Airbill

FedEx Tracking Number 8323 1928 9986

Form I.D. No. 0215

1 From This portion can be removed for Recipient's records.

Date 8/20/02 FedEx Tracking Number 832319289986

Sender's Name Carrie Mero Phone 919 461-1265

Company UKS Corp - NC

Address 1600 Perimeter Park Dr. Suite 100

Dept./Floor/Suite/Room

City Morrisville State NC ZIP 27560

RECIPIENT - HERE

2 Your Internal Billing Reference MARK HOLD FOR SAT AT FEDEX LO

3 To

Recipient's Name Sample Control Phone [illegible]

Company [illegible] TRENT LAWS

Address [illegible] SUMMIT DR BLDG B

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes

Address

Dept./Floor/Suite/Room

City AUSTIN State TX ZIP [illegible]

8323 1928 9986

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- ☐ FedEx Priority Overnight — Next business morning
- ☐ FedEx Standard Overnight — Next business afternoon
- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations
- ☐ FedEx 2Day — Second business day
- ☐ FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- ☐ FedEx 1Day Freight* — Next business day
- ☐ FedEx 2Day Freight — Second business day
- ☐ FedEx 3Day Freight — Third business day

* Call for Confirmation: _____ * Declared value limit $500

5 Packaging

- ☐ FedEx Envelope*
- ☐ FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- ☐ Other

6 Special Handling Include FedEx address in Section 3

- ☐ SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- ☐ HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- ☐ HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

- ☑ No
- ☐ Yes — As per attached Shipper's Declaration
- ☐ Yes — Shipper's Declaration not required
- ☐ Dry Ice — Dry Ice, 9, UN 1845 x kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging

☐ Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below ☐ Obtain Recip Acct. No.

- ☐ Sender — Acct. No. in Section 1 will be billed
- ☑ Recipient
- ☐ Third Party
- ☐ Credit Card
- ☐ Cash/Check

[redacted] 2156-[redacted]

Total Packages Total Weight [redacted] Total Charges

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details

8 Release Signature *Sign to authorize delivery without obtaining signature*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com
or call 1.800.Go.FedEx® 800.463.3339.

SRS•Rev Date 10/01•Part #157610S•©1994-2001 FedEx•PRINTED IN U.S.A.

447

Align bottom of Airbill Pouch here.
Part # 150454 Rev. 4/00

[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES

~~ICH~~ 8/21/02 ~~ICH~~ 20208123 95541

Severn Trent Laboratories, Inc.

STL4149 (0700)

Client: URS Corp. - NC	Project Manager: Jim Narkunas	Date: 8/20/02	Page 1 of 1
Address: 1600 Perimeter Park Dr.	Telephone Number (Area Code)/Fax Number: (919) 461-1270	Lab Location: Austin	
City: Morrisville; State: NC; Zip Code: 27560	Site Contact: Bobby Wallace		
Project Number/Name: 60396916.01	Carrier/Waybill Number: FedEx 8323 1928 9986		
Contract/Purchase Order/Quote Number			

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	VOCs
0802 HBWW 220	8/20/02	1400	W	40ml	VOA	3	—	4.0°C - 8/21/02 - [illegible]	X
0802 HBWW 225	↓	1420	↓	↓	↓	↓	↓	↓	X
0802 HBWW 224		1415							X
0802 HBWW 226		1230							X
0802 HBWW 234		1435							X
0802 HBWW 216		1525							X
0802 HBWW 222		1605							X
0802 HBWW 998		1235							X
TRIP BLANK - TB1	↓	—	↓	↓	↓	2	HCl	↓	X

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ Normal ☐ Rush ☐ Other ____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1 Relinquished By: Carrie R. Moore	8/20/02	1630	1 Received By: James [illegible]	8/21/02	0830
2 Relinquished By			2 Received By		
3. Relinquished By			3. Received By		

Comments: 202-1133

DISTRIBUTION: WHITE - Stays with the Sample. CANARY - Returned to Client with Report; PINK - Field Copy

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: 20208147

RECEIVED BY: (DW)

COC NUMBER: 202-1138

DATE/TIME RECEIVED: 8/22/02 0800

QUOTE/PROFILE: 2117

UNPACKED DATE/TIME: 8/22/02 0940

CLIENT/PROJECT: HB-PS

SAMPLES LOGGED IN: (DW)

LOG-IN REVISED:

Number of Shipping Containers Received with Chain of Custody: 1

VOC AIR SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: (DW)

Container Sealed: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO Custody Seal Signed/Dated: ☑ YES ☐ NO

If seal not intact, list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: _____

Canister Valves Closed: ☐ YES ☐ NO Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO See Additional Comments: ☐ YES ☐ NO

Packing Material Used: (circle) None / Absorbent / Paper / Bubble Wrap

Can Size: ☐ 6L ☐ 15L Other _____

3.0 SAMPLE TEMPERATURE UPON RECEIPT: (DW) **PYROMETER #:** P-4

The temperature of the container(s) is: *(acceptable tolerance 1-4°C)*

8.2										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☑ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☑ NA ☑ YES (TB's) **VERIFIED BY:** (DW)

Base samples are>pH 12: ☐ YES ☐ NO Acid preserved are<pH 2: ☑ YES ☐ NO trip blanks

Cyanide samples checked for sulfides: ☐ YES Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES Free chlorine present: ☐ YES ☐ NO

If sample preservation/temperature (°C) is outside acceptable tolerance, Project Manager was notified (_____PM)
Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: [illegible]

Samples received match COC: ☑ YES ☐ NO

Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO

Samples received from USDA restricted area: ☐ YES ☑ NO

VOA trip blanks included: ☑ YES ☐ NO ☐ N/A 2x TB

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

~~2x Trip Blanks not listed on COC.~~ [illegible] 8/22

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Client COC is "received"; i.e., signed and dated with time of receipt. ☑ YES

COC Addendum number is noted in the 'Comments' section of COC, as required for Horizon LIMS. ☑ YES ☐ N/A

Project Management: [illegible] Date: 8-22-02

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

FedEx Express USA Airbill

FedEx Tracking Number 8363 5165 1547

Form I.D. No. 0200

1 From

Date 8/21/02

Sender's Name Carrie Mero Phone 919 461-1265

Company URS Corp - NC

Address 1600 Perimeter Park Dr. Suite 100

Dept./Floor/Suite/Room

City Morrisville State NC ZIP 27612

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Control Phone 512 310-5000

Company Severn Trent Labs

Address 14046 Summit Dr., Bldg B

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes

Address

Dept./Floor/Suite/Room

City Austin State TX ZIP 78728

8363 5165 1547

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation.

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [x] Other

6 Special Handling Include FedEx address in Section 3

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Pick up Acct. No.

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	18	$ .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature *Sign to authorize delivery without obtaining signature*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com
or call 1.800.Go.FedEx 800.463.3339

446

[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES

20208147 93546

Severn Trent Laboratories, Inc.

STL4149 (0700)

Client: URS Corp. NC	Project Manager: Jim Narkunas	Date: 8/21/02	Page 1 of 1
Address: 1600 Perimeter Park Dr.	Telephone Number (Area Code)/Fax Number: (919) 461-1270	Lab Location: Austin	
City: Morrisville; State: NC; Zip Code: 27560	Site Contact: Bobby Wallace		
Project Number/Name: 80396916.01	Carrier/Waybill Number: FedEx 836351651547		
Contract/Purchase Order/Quote Number			

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	Analysis: VOCs 8260
0802 HBWW 215	8/21/02	0834	W	40 ml	VOA	3	—		X
0802 HBWW 214	↓	0908	↓	↓	↓	↓	↓		X
0802 HBWW 228	↓	0955	↓	↓	↓	↓	↓		X
0802 HBWW 227	↓	1005	↓	↓	↓	↓	↓		X
0802 HBWW 999	↓	1000	↓	↓	↓	↓	↓		X
TRIP BLANK - TB2	↓	—	↓	↓	↓	2	HCl		X
0802 HBWW 213	8/21/02	0842	W	40 ml	VOA	3	—		X

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ Normal ☐ Rush ☐ Other ____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

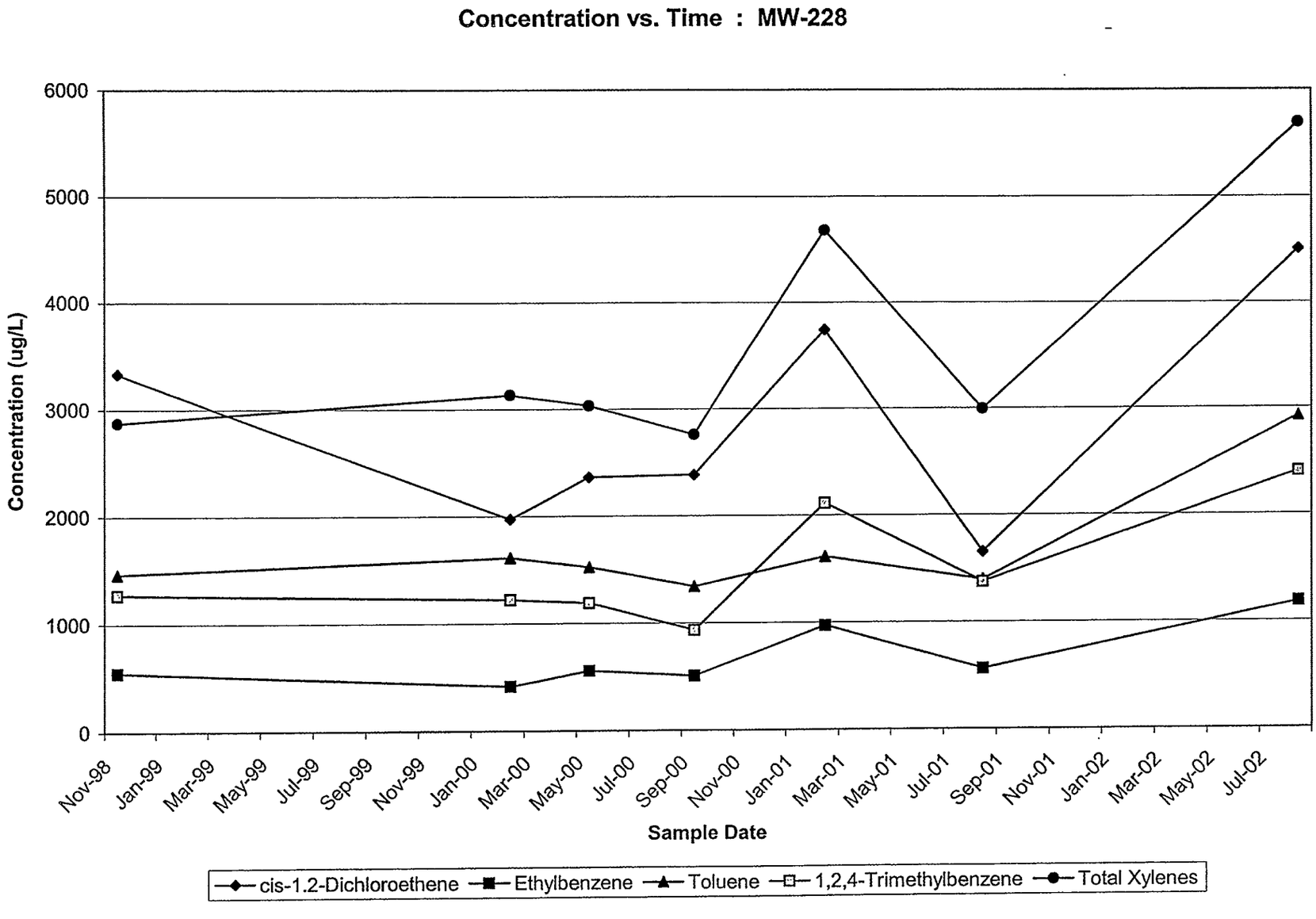
	Date	Time		Date	Time
1. Relinquished By: Carrie R. Moro	8/21/02	1730	1. Received By: [signature]	8/22/02	0830
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

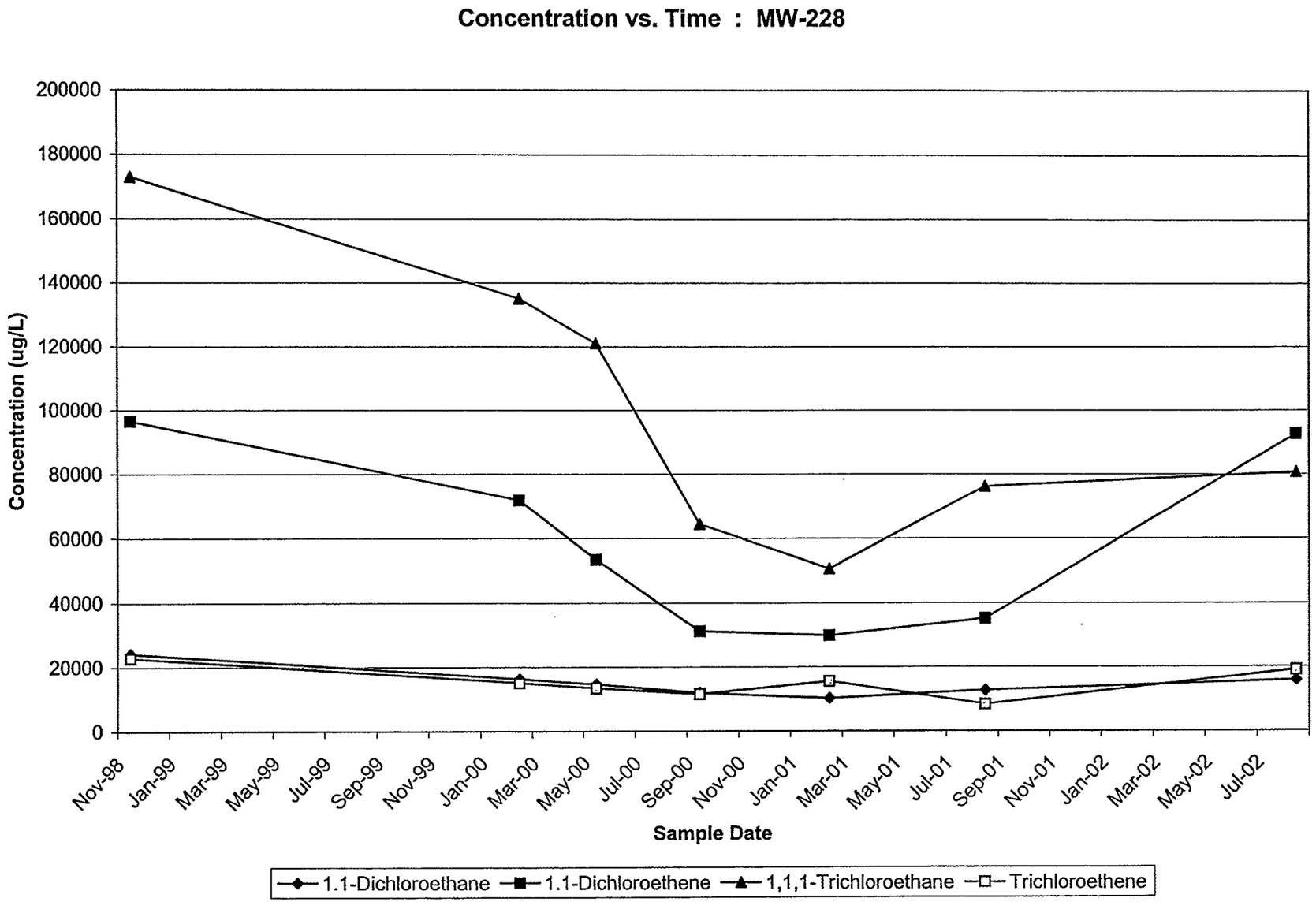
Comments: 202-1138

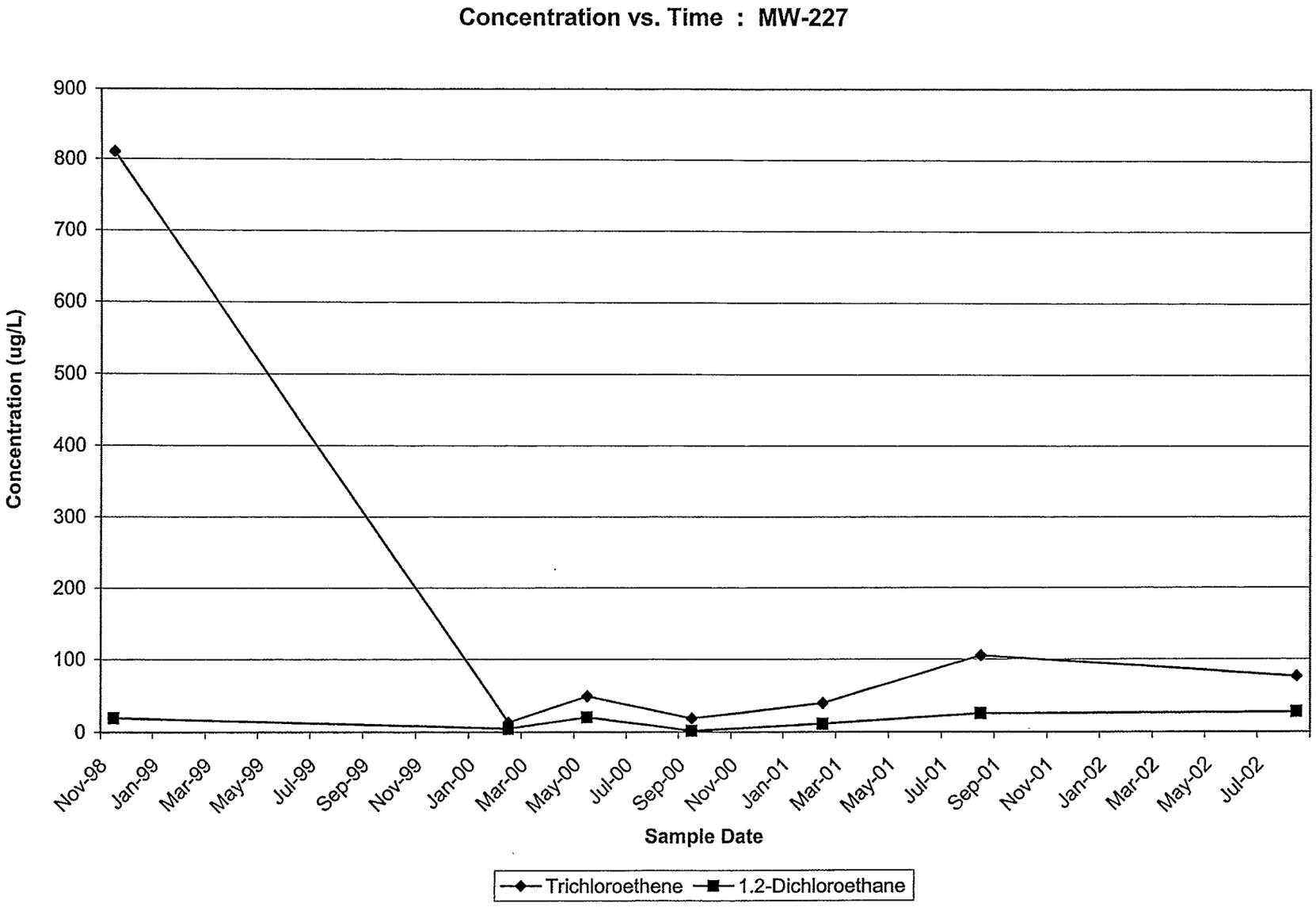
[redacted]

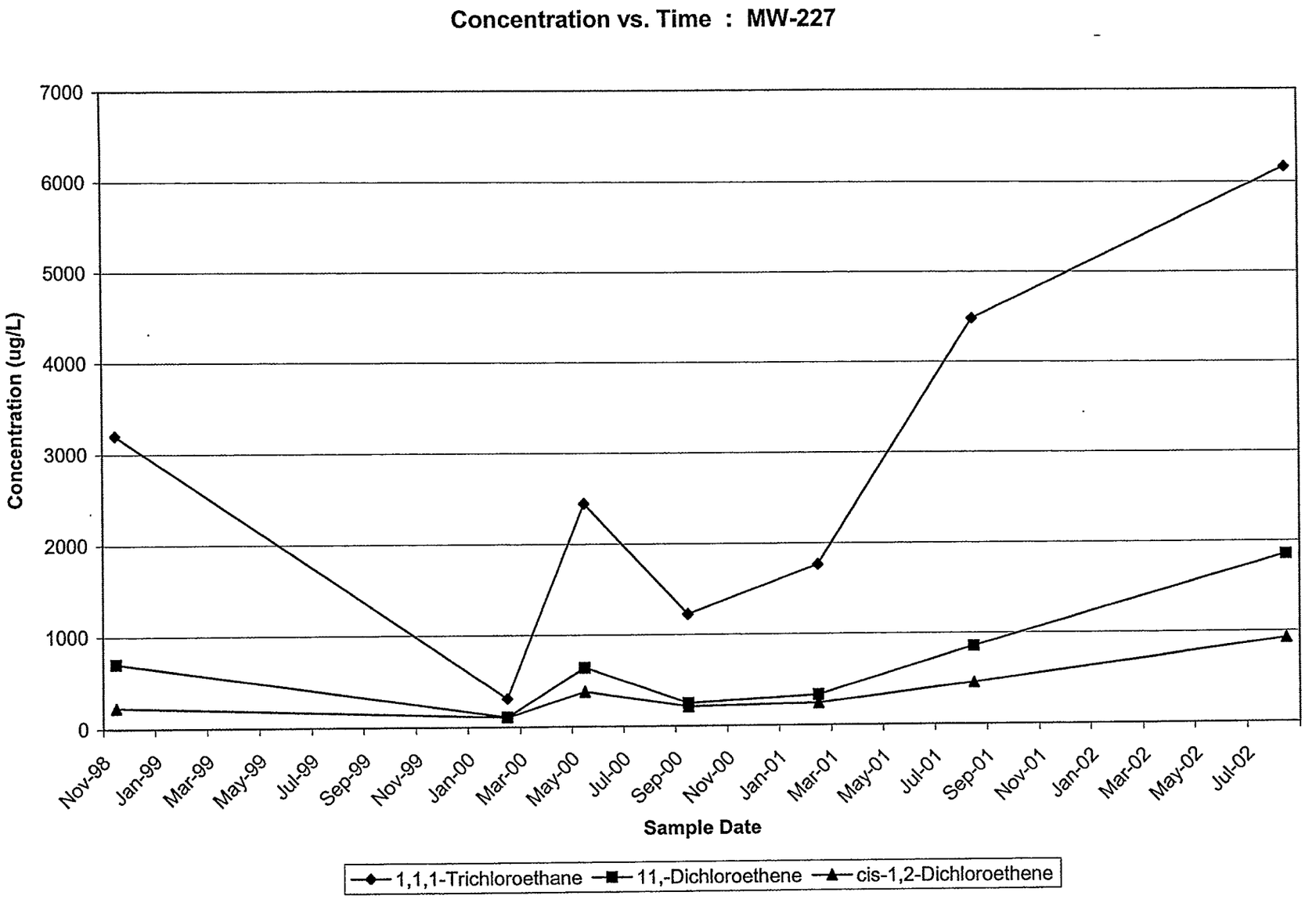
APPENDIX B

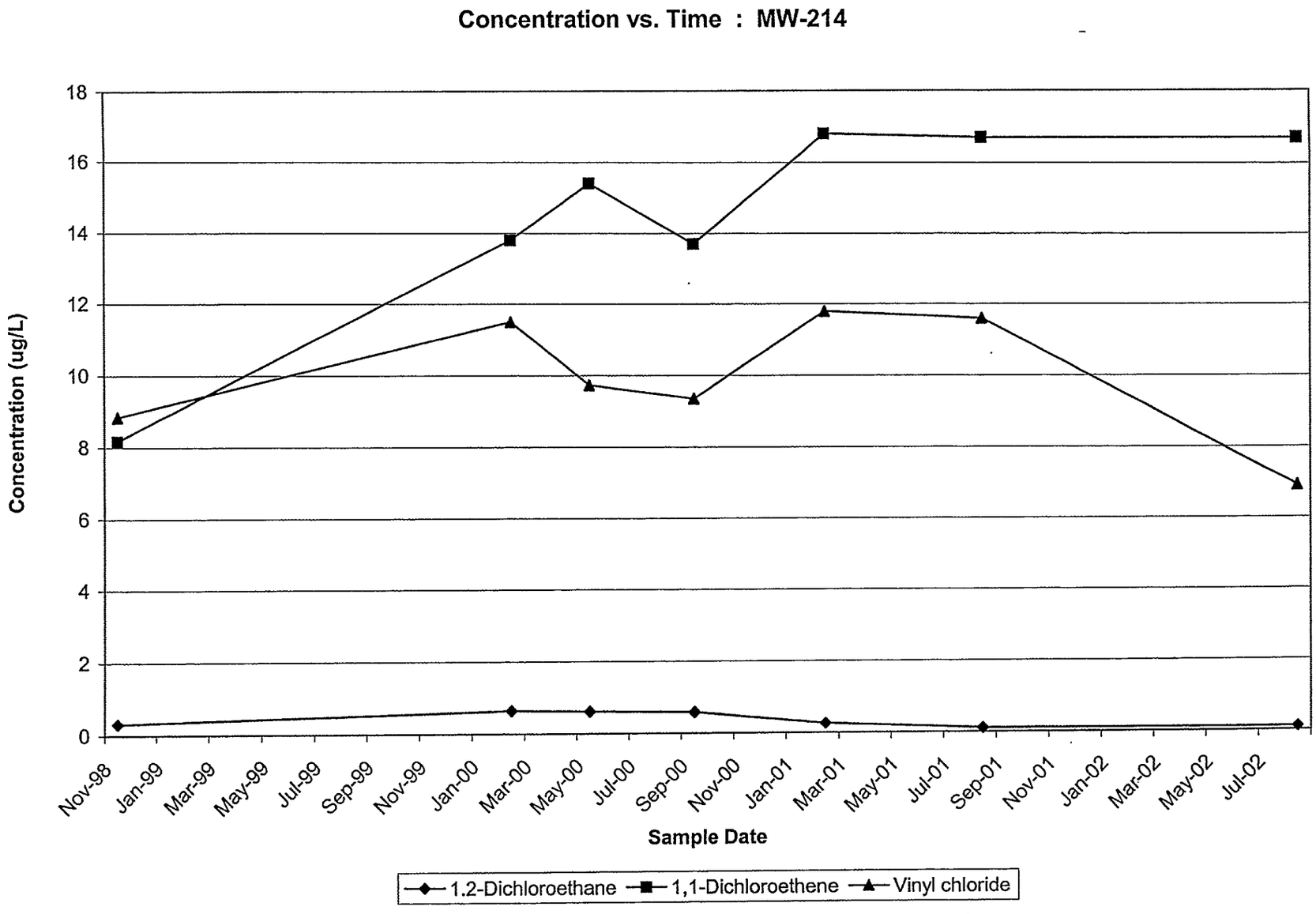
CONTAMINANT CONCENTRATIONS VERSUS TIME

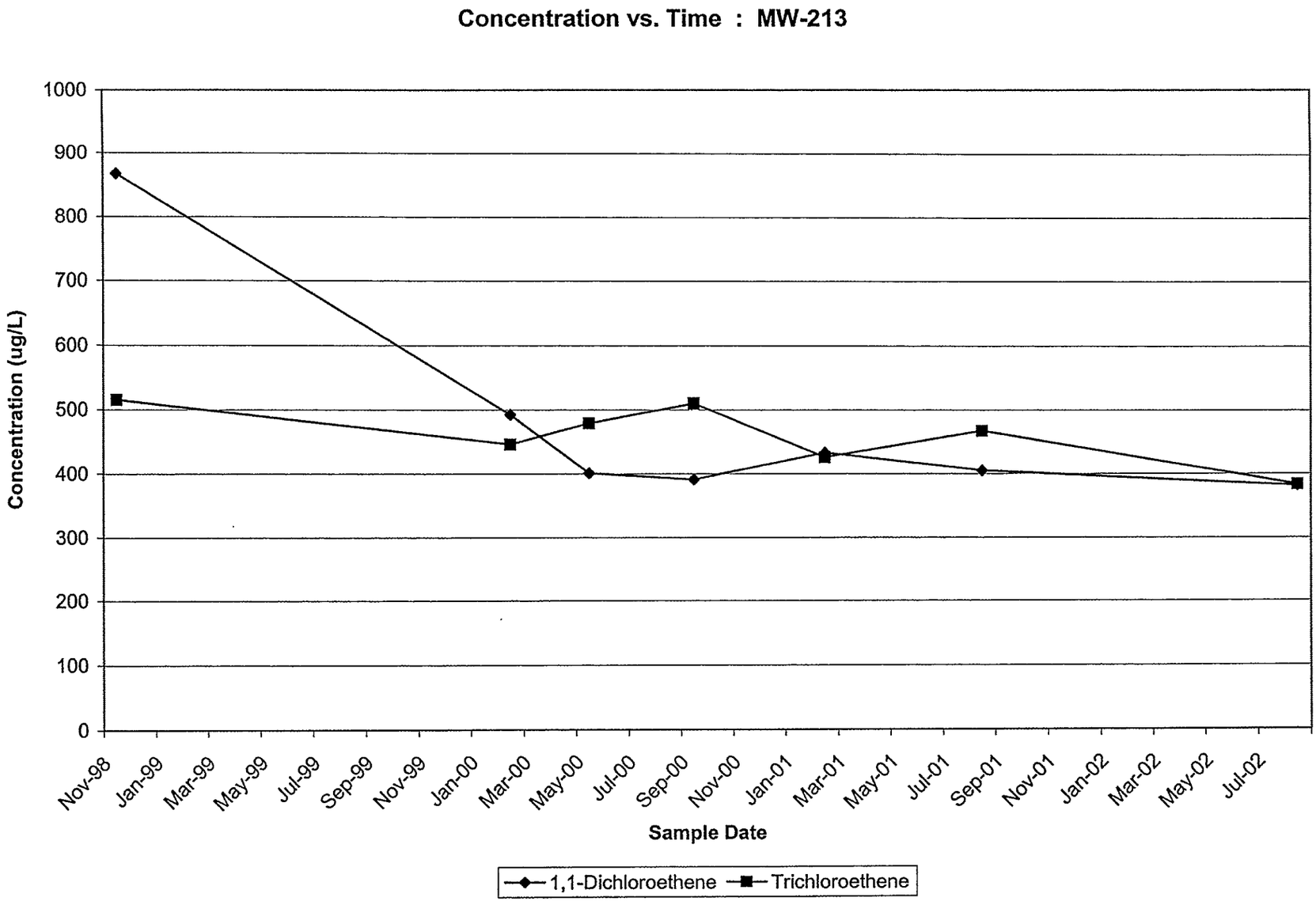

Concentration vs. Time : MW-228
Concentration (ug/L)
6000
5000
4000
3000
2000
1000
0
Nov-98
Jan-99
Mar-99
May-99
Jul-99
Sep-99
Nov-99
Jan-00
Mar-00
May-00
Jul-00
Sep-00
Nov-00
Jan-01
Mar-01
May-01
Jul-01
Sep-01
Nov-01
Jan-02
Mar-02
May-02
Jul-02
Sample Date
cis-1.2-Dichloroethene
Ethylbenzene
Toluene
1,2,4-Trimethylbenzene
Total Xylenes

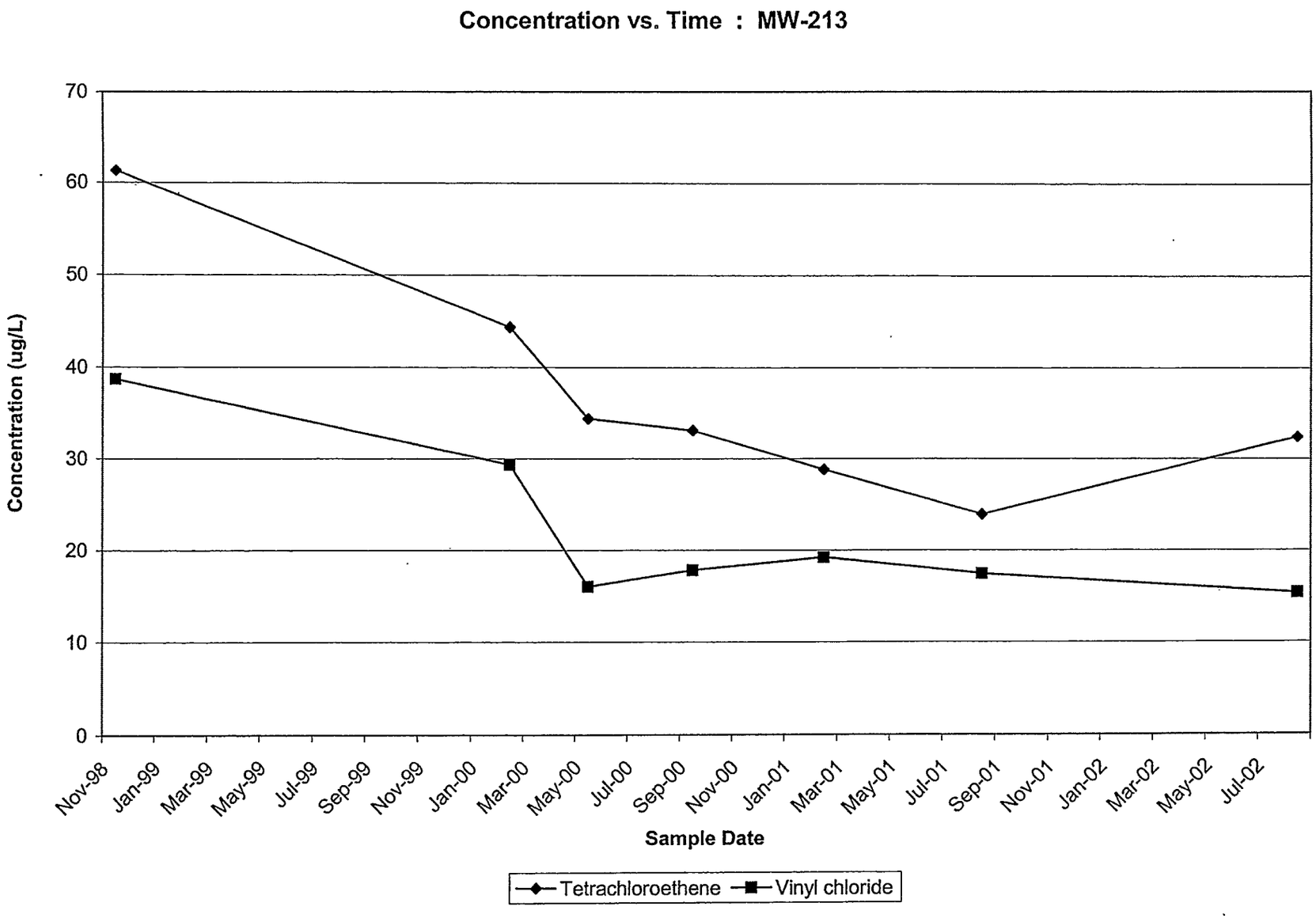

Concentration vs. Time : MW-228
Concentration (ug/L)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
Nov-98
Jan-99
Mar-99
May-99
Jul-99
Sep-99
Nov-99
Jan-00
Mar-00
May-00
Jul-00
Sep-00
Nov-00
Jan-01
Mar-01
May-01
Jul-01
Sep-01
Nov-01
Jan-02
Mar-02
May-02
Jul-02
Sample Date
1.1-Dichloroethane
1.1-Dichloroethene
1,1,1-Trichloroethane
Trichloroethene

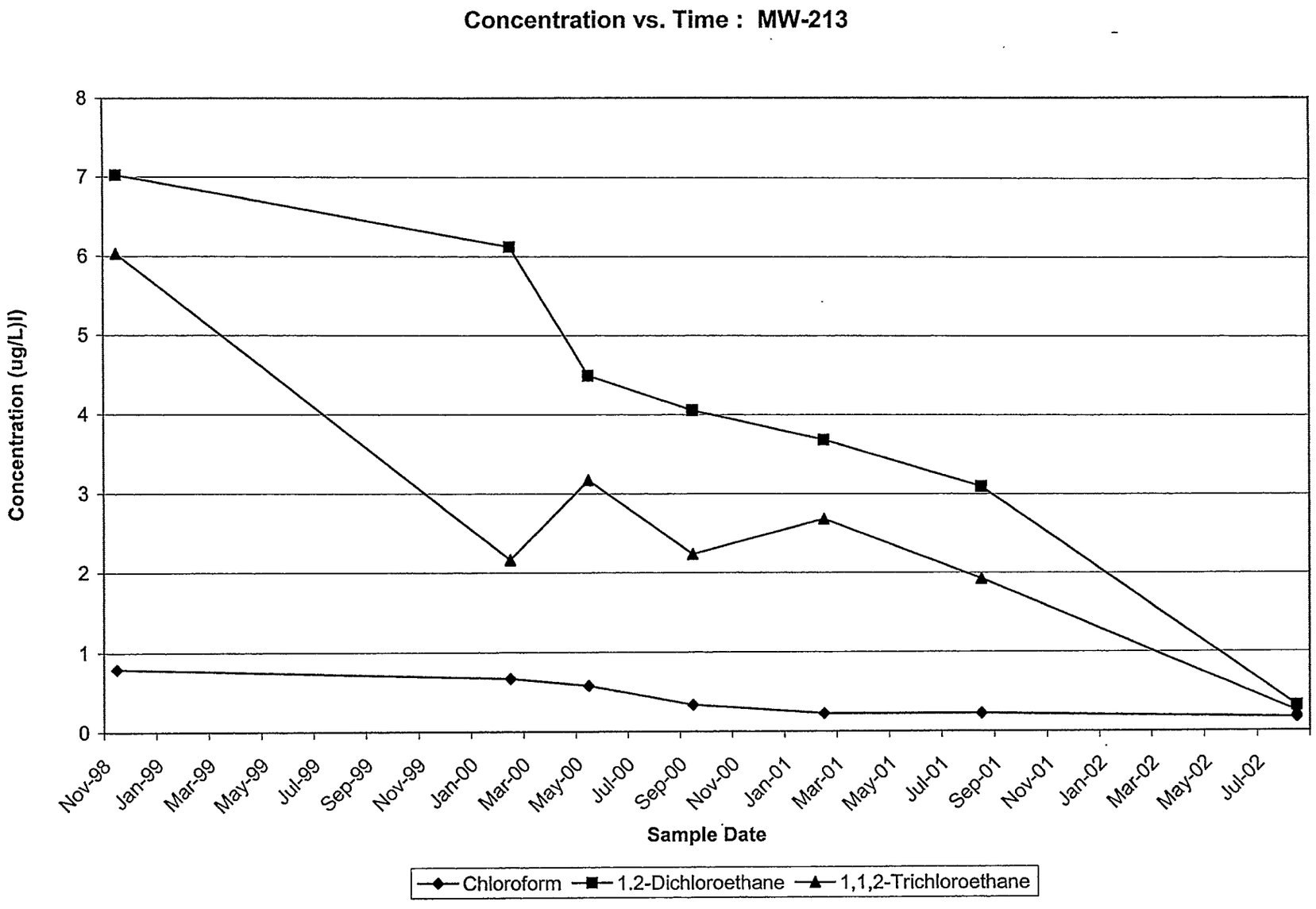

Concentration vs. Time : MW-227
Concentration (ug/L)
900
800
700
600
500
400
300
200
100
0
Nov-98
Jan-99
Mar-99
May-99
Jul-99
Sep-99
Nov-99
Jan-00
Mar-00
May-00
Jul-00
Sep-00
Nov-00
Jan-01
Mar-01
May-01
Jul-01
Sep-01
Nov-01
Jan-02
Mar-02
May-02
Jul-02
Sample Date
Trichloroethene
1.2-Dichloroethane


Concentration vs. Time : MW-227
Concentration (ug/L)
7000
6000
5000
4000
3000
2000
1000
0
Nov-98
Jan-99
Mar-99
May-99
Jul-99
Sep-99
Nov-99
Jan-00
Mar-00
May-00
Jul-00
Sep-00
Nov-00
Jan-01
Mar-01
May-01
Jul-01
Sep-01
Nov-01
Jan-02
Mar-02
May-02
Jul-02
Sample Date
1,1,1-Trichloroethane
11,-Dichloroethene
cis-1,2-Dichloroethene


Concentration vs. Time : MW-214
Concentration (ug/L)
18
16
14
12
10
8
6
4
2
0
Nov-98
Jan-99
Mar-99
May-99
Jul-99
Sep-99
Nov-99
Jan-00
Mar-00
May-00
Jul-00
Sep-00
Nov-00
Jan-01
Mar-01
May-01
Jul-01
Sep-01
Nov-01
Jan-02
Mar-02
May-02
Jul-02
Sample Date
1.2-Dichloroethane
1,1-Dichloroethene
Vinyl chloride


Concentration vs. Time : MW-213
Concentration (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
Nov-98
Jan-99
Mar-99
May-99
Jul-99
Sep-99
Nov-99
Jan-00
Mar-00
May-00
Jul-00
Sep-00
Nov-00
Jan-01
Mar-01
May-01
Jul-01
Sep-01
Nov-01
Jan-02
Mar-02
May-02
Jul-02
Sample Date
1,1-Dichloroethene
Trichloroethene


Concentration vs. Time : MW-213
Concentration (ug/L)
70
60
50
40
30
20
10
0
Nov-98
Jan-99
Mar-99
May-99
Jul-99
Sep-99
Nov-99
Jan-00
Mar-00
May-00
Jul-00
Sep-00
Nov-00
Jan-01
Mar-01
May-01
Jul-01
Sep-01
Nov-01
Jan-02
Mar-02
May-02
Jul-02
Sample Date
Tetrachloroethene
Vinyl chloride


Concentration vs. Time : MW-213
Concentration (ug/L)l)
8
7
6
5
4
3
2
1
0
Nov-98
Jan-99
Mar-99
May-99
Jul-99
Sep-99
Nov-99
Jan-00
Mar-00
May-00
Jul-00
Sep-00
Nov-00
Jan-01
Mar-01
May-01
Jul-01
Sep-01
Nov-01
Jan-02
Mar-02
May-02
Jul-02
Sample Date
Chloroform
1.2-Dichloroethane
1,1,2-Trichloroethane