

Tyco Safety Products - Ansul

Letter of Transmittal

TO: Wisconsin Department of Commerce
 Environmental & Regulatory Services
 Bureau of PECFA
 P.O. Box 8044
 Madison, WI 53708-8044

Date: 9/19/03	Project No.: 2440-00040
Attention: Brain F. Taylor	
Re: Tyco Safety Products - Ansul	
Fire Technology Center Petroleum Investigation	
2700 Industrial Avenue, Marinette, Wisconsin, 54143	
Submittal Item #: N/A	
Subcontractor: STS Consultants, Green Bay, WI	

RECEIVED

We Are Sending You:

- Attached
 Prints
 Under separate cover via _____ the following items:
- Shop drawings
 Change order
 Draft Drwgs.
 Samples
 Specifications
- Copy of letter
 Reviewed & Approved
 Lab Tests
 Groundwater Monitoring Report

SEP 23 2003
 ERS DIVISION

COPIES	DATE	NO.	DESCRIPTION
2	9/16/03	Spiral Binder	2003 Progress Report - Petroleum Contamination Project
2	5/22/01	2	Copy of George Rogers Status Letter dated 5-22-01 - PECFA Funding

THESE ARE TRANSMITTED AS CHECKED BELOW:

- For approval
 Approved as submitted
 Resubmit ___ copies for approval
- For your use
 Approved as noted
 Submit ___ copies for distribution
- As requested
 Returned for corrections
 Return executed originals
- For review and comment
 Transmission to
- For Bids Due on
 Record Purposes
 Prints Returned After Loan to Us

Remarks: Dear Mr. Taylor -

- Tyco Safety Products - Ansul agrees with STS Consultant's recommendation to continue natural attenuation groundwater monitoring.
- George Rogers submitted an application on 5/22/01 for PECFA funding availability & I did not find a response in the file. Please update me on this topic at your earliest convenience.

Copies To: CF.DDL.FTC, Al Walker, Tyco - Ansul (w/attachments)
Bob Motl, STS w/o attachments

Signed: *Dean D. LaFleur*
 Dean D. LaFleur, P.E.

Tyco Safety Products - Ansul
 1 Stanton Street
 Marinette, WI 54143
 (715) 735-7411, ext. 3304
 (715) 732-3448 (facsimile)



June 18, 2001

Mr. Brian Taylor
Wisconsin Department of Commerce-PECFRA
P.O. Box 8044
Madison, WI 53708-8044

RE: STATUS LETTER
ANSUL FIRE TECHNOLOGY CENTER-MARINETTE
COMMERCE #54143-3821-00

Dear Mr. Taylor:

Your letter of May 14, 2001 regarding the above site investigation requested that Ansul send you a letter describing the project status.

On May 22, 2001, at your suggestion, Ansul submitted a PECFRA eligibility form to the Department Commerce. We have not yet received a reply. It is our understanding that, if the site is not eligible for PECFRA funding, the Department will assist Ansul by establishing financial cost caps through the statewide public bidding system. Ansul appreciates any help you can give us in limiting costs for this investigation.

We have sent requests for proposals for the investigation work to URS Corporation (Milwaukee) and STS Consultants (Green Bay). Both firms have visited the site and have been asked to submit scopes of work, cost estimates and completion timelines. Both have indicated that these documents will be here next week. We are currently attempting to obtain a third bidder.

All bidders are being told that the investigation portion of the work at the site will be completed this sampling season. We expect to choose a contractor with two to three weeks. When that happens I will contact you with a projected timeline for site activities.

 **COPY**

If you have any questions or comments, please contact me.

Sincerely,

George E. Rogers, CHMM
Environmental Control Manager

PC: Jane Harmon (Tyco)

Ira Luplow

Dennis Kennedy

Dennis Orszulak

Brad Goldapske



STS CONSULTANTS, LTD.

**2003 Progress Report - Petroleum
Contamination Project**

Tyco Safety Products - Ansul
Fire Technology Center
Marinette, Wisconsin

STS Project No. 4-27380W

Tyco Safety Products - Ansul
One Station Street
Marinette, Wisconsin 54143-2542



September 16, 2003

RECEIVED

SEP 17 2003

Mr. Dean D. LaFleur, P.E.
Tyco Safety Products - Ansul
One Stanton Street
Marinette, Wisconsin 54143-2542

Re: Tyco Safety Products - Ansul
Fire Technology Center
Marinette, Wisconsin

Sub: 2003 Progress Report
Petroleum Contamination Project
Commerce No. 54143-3882-00
WDNR BRRTS No. 03-38-001345
STS Project No. 4-27380W

Dear Mr. LaFleur:

The purpose of this submittal is to provide Tyco Safety Products - Ansul (Ansul) with a progress report on the soil and groundwater analytical work performed between August 2002 and August 2003 at the Fire Technology Center in Marinette, Wisconsin. Based on findings in this report, we recommend:

1. Natural attenuation monitoring continue for the project. Specifically, we recommend quarterly petroleum volatile organic compound (PVOC) monitoring be conducted at Monitoring Wells FTC-34D, FTC-44, and FTC-45 in addition to selected monitoring wells in the interior of the plume to allow further assessment of groundwater enforcement standard exceedances. We recommend that all other operable monitoring wells be sampled once annually for PVOCs.
2. Groundwater table maps be prepared for each sampling event to observe fluctuations in groundwater elevation and flow direction.
3. Semi-annual progress reports be provided to the Wisconsin Department of Commerce. If analytical concentrations continue to demonstrate a downward trend at FTC-34D and concentrations remain stable in the remaining wells, case closure may be considered for the project.

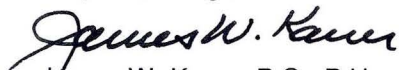
Please contact Mr. Bob Mottl (STS) at (800) 949-1978 if you have any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.



Robert J. Mottl, P.G.
Project Geologist



James W. Kauer, P.G., P.H.
Associate Geologist

Tyco Safety Products - Ansul
STS Project No. 4-27380W
September 16, 2003

Copy: TSP-Ansul (Central File)

Mr. Allen Walker, P.E.
Tyco Safety Products - Ansul
One Stanton Street
Marinette, Wisconsin 54143-2542



Table of Contents

1.0 INTRODUCTION.....1
 1.1 Site Location and Description1
 1.2 Regional Hydrogeology and Supply Well Status1
 1.3 Previous Investigation Work2
2.0 PROCEDURES4
 2.1 Soil Sampling/Monitoring Well Installation.....4
 2.2 Groundwater Sampling4
3.0 RESULTS.....5
 3.1 Soil Results5
 3.2 Groundwater Results5
4.0 CONCLUSIONS7
 4.1 Soil7
 4.2 Groundwater7
5.0 RECOMMENDATIONS.....8
6.0 GENERAL QUALIFICATIONS9

Figures

- Figure 1 - Site Location Map
- Figure 2 - Site Map
- Figure 3 - Groundwater Contour and Concentration Map (11/21/02)
- Figure 4 - Groundwater Contour and Concentration Map (5/6/03)
- Figure 5 - Groundwater Contour and Concentration Map (6/9/03)
- Figure 6 - Groundwater Contour and Concentration Map (8/4/03)

Tables

- Table 1 - Soil Analytical Results
- Table 2 - Groundwater Field Parameters
- Table 3 - Groundwater Analytical Results



Table of Contents, continued

Appendices

- Appendix A WDNR Soil Boring Log Information Forms
WDNR Monitoring Well Construction Forms
WDNR Monitoring Well Development Forms
WDNR Wisconsin Well Constructor's Reports (4)
- Appendix B EnChem Inc. Analytical Reports
- Appendix C Chromatograms
Hydraulic Conductivity Testing Reports (2)
Hydraulic Gradient Calculations (2)



Tyco Safety Products - Ansul
STS Project No. 4-27380W
September 16, 2003

1.0 INTRODUCTION

1.1 Site Location and Description

The Fire Technology Center (FTC) property is located on Industrial Avenue, city of Marinette, Marinette County, Wisconsin. The property occupies a portion of the north half of the Northeast 1/4 of Section 13, Township 30 North, Range 27 East. The site and surrounding area are depicted on Figure 1 (attached), which is a portion of the United States Geological Survey (USGS) 7.5-minute topographic quadrangle map of Marinette West, Wisconsin-Michigan, 1976. The property is located within the Marinette Industrial Park. The property surrounding the FTC consists of undeveloped land owned by Tyco Safety Products - Ansul (Ansul). The property is currently used by Ansul as a center for training emergency fire protection students and research and development. Students use various techniques and equipment to extinguish controlled fires. Several steel pans located around the property are used to hold combustible liquids which are ignited for the training. Previously, combustible liquids were stored in clay-lined pits that have since been abandoned by Ansul. Locations of the pits are shown on Figures 2 through 6.

1.2 Regional Hydrogeology and Supply Well Status

The Wisconsin Geological and Natural History Survey¹ reports that shallow soils in the area are primarily glacial lake deposits, consisting mainly of clay, silt, and sand, extending to depths up to 100 feet below ground surface (bgs). The glacial lake deposits are underlain by undifferentiated Ordovician dolomite. According to the atlas, the regional groundwater flow direction in the area is generally east toward the Bay of Green Bay. Based on STS Consultants, Ltd.'s (STS's) experience in Wisconsin, local groundwater flow is generally influenced by specific site geology, locations of surface water bodies, and buried subsurface structures.

STS obtained copies of Wisconsin Well Constructor's Reports (WCRs) (Appendix A). The WCRs document the installation of potable water supply wells. There were no WCR records from the NE 1/4 of Section 13, T30N, R23E, the location of the FTC training facility (Figure 1). However, one WCR record was obtained for "Ansul Chemical Company" in the adjacent section (South 1/2 of SE 1/4, Section 12, T30N, R23E), which is immediately north of the FTC training facility. This WCR indicates that the supply well, installed in 1964, encountered 18 feet of sand overlying clay that extended to a depth of 65 feet bgs. Bedrock encountered below the clay is identified as

¹ The Wisconsin Geological and Natural History Survey "Water Resources of Wisconsin Menominee-Oconto-Peshigo River Basin Hydrologic Atlas HA-470" by E.L. Oakes and L.J. Hamilton, 1973.

Tyco Safety Products - Ansul
STS Project No. 4-27380W
September 16, 2003

limestone. Three additional WCRs from adjacent sections also document sand soil that extends to depths ranging from 27 to 38 feet bgs.

One supply well is located on the FTC training facility yard, approximately 25 feet northwest of Monitoring Well FTC-35 (Figure 2). A WCR report is not available for this well.

1.3 Previous Investigation Work

In November 1992, E&K Hazardous Waste Services was retained by Ansul to remove a 550-gallon gasoline underground storage tank (UST) located at the FTC. Evidence of a release to the environment was discovered following UST removal. Dames & Moore was retained to conduct subsurface investigation activities at the site to assess the extent of impacts due to the release. Petroleum impacts to soil and groundwater were identified during the investigation.

Dames & Moore issued two reports for the project: Site Investigation Report (January 1994) and Phase II Subsurface Investigation (August 1995). The reports summarized subsurface investigation activities between late 1993 and mid-1995, which included the installation of 30 soil borings and 8 groundwater monitoring wells on the western and central portions of the site. Conclusions in the reports were that further investigation was necessary to the east, northeast, and southeast and approximately 1 foot of free product present in Monitoring Well MW-28 would require some remediation. Soil and groundwater analytical data from Dames & Moore reports are included on the data tables in this report.

In May 1996, Dames & Moore conducted another phase of subsurface investigation activities including the installation of three additional monitoring well nests (FTC-32S/D, FTC-33S/D, and FTC-34S/D) on the eastern portion of the site. We understand that some free product recovery occurred at this time from FTC-28.

In 2001 and early 2002, the Wisconsin Department of Commerce (Commerce) contacted Ansul and requested an update for the project. Through various discussions, the Commerce requested that Ansul:

- ◆ Provide some additional information on nearby supply wells (see above).
- ◆ Collect some additional soil samples around the areas of the former clay burn pits.
- ◆ Conduct further groundwater quality monitoring.

Tyco Safety Products - Ansul
STS Project No. 4-27380W
September 16, 2003

On November 19, 2002, results of the 1996 Dames & Moore well installation and groundwater quality monitoring work were provided to the Commerce by STS. The data indicated that further petroleum volatile organic compound (PVOC) plume definition was necessary. The following sections of the report describe the STS sampling and monitoring work conducted between August 2002 and August 2003.

Tyco Safety Products - Ansul
STS Project No. 4-27380W
September 16, 2003

2.0 PROCEDURES

2.1 Soil Sampling/Monitoring Well Installation

On August 8, 2002, STS installed Monitoring Well MW-35 at the west end of the FTC training area and collected shallow soil samples at FTC Locations 36, 37, 38, 39, 40, and 41 (Figure 2). Wisconsin Department of Natural Resources (WDNR) Soil Boring Log Information Forms, Monitoring Well Construction Forms, and Monitoring Well Development Forms are attached in Appendix A. Because the soil photoionization detector (PID) readings were all less than 0.1 PID unit, the soils from Monitoring Well MW-35 were thin-spread on the site. Soil samples collected from these locations were submitted to En Chem Inc. (En Chem) in Green Bay, Wisconsin, and analyzed for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs) as requested by Commerce.

On April 29, 2003, STS installed Monitoring Wells FTC-42 and FTC-44 and Boring FTC-43. In addition, on April 29, the flush-mounted protector pipe on Monitoring well FTC-34D (which had heaved about 6-inches above ground surface) was replaced and the surface seal repaired in accordance with rules and regulations. Following repair of the protector pipe, approximately 100 gallons of water was purged from FTC-34D. The purge water was placed into two 55-gallon drums and disposed properly. Monitoring Well FTC-45 was installed by hand auger on June 6, 2003, by STS.

2.2 Groundwater Sampling

Groundwater samples from selected wells were collected and groundwater field parameters, including water elevation, were measured on four (4) occasions:

- ◆ November 21, 2002
- ◆ May 6, 2003
- ◆ June 9, 2003
- ◆ August 4, 2003

STS also performed field hydraulic conductivity tests in two of the monitoring wells (FTC2D and FTC29) on November 21, 2002. Groundwater samples collected from the monitoring wells in November 2002 were submitted to En Chem to be analyzed for VOCs and PAHs. Groundwater sample analyses for PVOCs and VOCs were completed at selected wells in May, June, and August 2003. Groundwater laboratory reports are included in Appendix B, and groundwater hydraulic conductivity calculation data is included in Appendix C.

Tyco Safety Products - Ansul
STS Project No. 4-27380W
September 16, 2003

3.0 RESULTS

3.1 Soil Results

Soil analytical data are summarized on Table 1. The analytical laboratory data for the 2002 testing is included in Appendix B. A review of Table 1 indicates that soil obtained from Dames & Moore Borings FTC-1, -3, -4, -22, -27, -29, -30, -31, -34, and STS Borings FTC-35, -36, -38, -39, -40, and -41 yielded concentrations of VOCs and PAHs below Wisconsin Administrative Code Chapter NR 720 Residual Contaminant Levels (RCLs), Chapter 746 Soil Screening Levels (SSLs), and suggested groundwater pathway and direct contact RCLs in the 1997 WDNR "Guidance for Polycyclic Aromatic Hydrocarbons."

Table 1 also indicates that concentrations of selected VOCs or PAHs exceeded the groundwater pathway values from Soil Borings FTC-2, -10, -28, -34, and -37. The only reported direct contact exceedance was a suggested non-industrial RCL exceedance of phenanthrene in the soil sample from FTC-37.

3.2 Groundwater Results

Groundwater elevation measurements are summarized on Table 2, and elevations are provided on the groundwater table maps (Figures 3, 4, 5, and 6) along with analytical concentrations of selected VOCs. A review of the groundwater table maps indicates the groundwater table is nearly flat across the site, with some minimal flow to the east and northeast. Figure 3 indicates that groundwater flow direction on November 21, 2002, was in a north and slightly northeast direction with a low gradient of 0.001 foot per foot. A comparison of the groundwater elevations and piezometers (the D wells) versus the S wells (water table wells) indicates there were downward vertical gradients at Well Nests 32, 33, and 34 on November 21, 2002.

Hydraulic conductivity calculations included in Appendix C indicated that the hydraulic conductivity of the sandy soils in the area is approximately 3×10^{-3} centimeters per second (cm/sec). This number is consistent with previous Dames & Moore calculations. Based on the horizontal gradient and this hydraulic conductivity, STS estimates that the linear seepage velocity on November 21, 2002, was approximately 13 feet per year.

En Chem performed a diesel range organics (DRO) screen of the water samples from Wells FTC-27, -32S, and -33S. The DRO chromatograms for Samples 27, 32S, and 33S

Tyco Safety Products - Ansul
STS Project No. 4-27380W
September 16, 2003

(included in Appendix C) exhibit raised DRO baselines but few peaks. Based on STS's experience, raised baselines can be associated with natural organics in groundwater. Standard chromatograms for a number of common petroleum fuels are also included in Appendix C. These standard chromatograms illustrate peaks associated with common petroleum fuels. These peaks were not observed on the chromatograms for Samples 27, 32S, and 33S.

Elevated pH levels were measured in Monitoring Wells FTC-27 (7.84 standard units [s.u.]), FTC-32S (9.39 s.u.), and FTC-34D (8.67 s.u.) on the east half of the site. In the remaining wells, pH levels generally only varied between 6.20 and 7.24 s.u. Approximately 1/4 inch of free petroleum product was observed in FTC-28 on May 6, 2003. Free product was not observed in other sampling rounds in FTC-28 and does not appear to be persistent in any other monitoring wells.

Groundwater analytical results are summarized on Table 3, and the laboratory analytical data is also included in Appendix B. A review of Table 3 indicates that Monitoring Wells FTC-29, -31, -32D, -33D, -34S, and -35 yielded concentrations of VOCs and/or PAHs below Wisconsin Administrative Code Chapter NR 140 and enforcement standard (ES). Also, PVOC concentrations from Monitoring Wells FTC-42 and FTC-44 were below NR 140 ES and preventive action limit (PAL). Selected VOCs in Monitoring Wells 32D and 2D had concentrations slightly above the PAL, but still below the ES.

Petroleum-related VOCs and PAHs including benzene, toluene, ethylbenzene, xylenes, trimethylbenzenes, naphthalene, and methyl tert-butyl ether (MTBE) were detected above ES limits in groundwater samples recovered from Monitoring Wells FTC-2S, -3, -27, -30, -32S, -33S.

PVOCs detected in the groundwater sample from Piezometer FTC-34D were below the ES in November 2002 before the protector pipe was prepared; however, several chlorinated VOCs were detected in this well at concentrations exceeding Chapter NR 140 ES limits. These compounds included cis-1,2-dichloroethene, tetrachlorethene, trichloroethylene, and vinyl chloride. Following repair of the protector pipe, these chlorinated VOCs were not detected, but concentrations of selected PVOCs (benzene and MTBE) exceeded NR 140 ES in May, June, and August 2003. Although the source of the chlorinated VOCs is unknown, the potential existed for contaminants to enter FTC-34D through its formerly compromised surface seal from the heaved protector pipe.

Tyco Safety Products - Ansul
STS Project No. 4-27380W
September 16, 2003

4.0 CONCLUSIONS

4.1 Soil

Based on review of the November 2002 data, it appears that the soil to groundwater pathway exceedances are isolated around Soil Boring Locations ATFC-2, -10, and -28. Because groundwater monitoring wells are located at FTC-2 and FTC-28 and Monitoring Well FTC-3 is located within 50 feet of FTC-10, it is our opinion that the soil to groundwater pathway is adequately assessed by the existing groundwater monitoring well network. Therefore, we see no further action needed regarding the soil quality at these borings.

Although the phenanthrene detection at ATFC-37 (22,000 micrograms per kilogram [$\mu\text{g}/\text{kg}$]) exceeded its suggested generic direct contact RCL (18,000 $\mu\text{g}/\text{kg}$) the phenanthrene concentration is less than the site-specific non-industrial RCL obtained by adjusting the excess target cancer risk. As provided in s.NR 720.19(5)(a), Wisconsin Administrative Code, the excess cancer risk for a Class D carcinogen, such as phenanthrene, can be raised from 2×10^{-7} to 1×10^{-6} cm/sec. This five-fold increase in target cancer risk raises the generic RCL of 18,000 micrograms per liter to a site-specific RCL (SSRCL) of 90,000 $\mu\text{g}/\text{kg}$, indicating that the phenanthrene concentration at FTC-37 was below the SSRCL. Therefore, we see no need to further address soil quality at the FTC site.

4.2 Groundwater

Groundwater PVOC ES exceedances were reported in selected monitoring wells. The extent of these PVOC exceedances to the north, west, south, northeast, and southeast have been laterally delineated. MTBE and benzene ES exceedances are still present at the east edge of the site at Piezometer FTC-34D. The benzene concentration remained stable and the MTBE concentration decreased over the June and August 2003 sampling events. Free product does not appear to be persistent at FTC-28.

A review of Figure 1 indicates that Ansul owns a considerable amount of property around the FTC, extending approximately 1,000 feet to the north and approximately 2,000 feet east. With this large property, it is unlikely these ES exceedances pose a threat to third-party (off-site) receptors. Therefore, natural attenuation is likely an appropriate remedy based on the site conditions.

Tyco Safety Products - Ansul
STS Project No. 4-27380W
September 16, 2003

5.0 RECOMMENDATIONS

Based on results described above, STS recommends that:

1. Natural attenuation monitoring continue for the project. Specifically, we recommend that quarterly PVOC monitoring be conducted at Monitoring Wells FTC-34D, FTC-44, and FTC-45 in addition to selected monitoring wells in the interior of the plume to allow further assessment of ES exceedances. We recommend that all other operable monitoring wells be sampled once annually for PVOCs.
2. Groundwater table maps be prepared for each of the sampling events to observe fluctuations in groundwater elevation and flow direction.
3. Semi-annual progress reports be provided to Commerce. If the analytical concentrations continue to demonstrate a downward trend at FTC-34D and concentrations remain stable in the remaining wells, case closure may be considered for the project.

Tyco Safety Products - Ansul
STS Project No. 4-27380W
September 16, 2003

6.0 GENERAL QUALIFICATIONS

The scope of this report is limited to the project and location described herein. The conclusions in this report are based on STS's interpretation of subsurface conditions as documented in soil borings, the surface conditions existing at the time of the study and laboratory test results presented by En Chem. Stratification lines on boring logs represent approximate boundaries between soil types. Variations may exist in both horizontal and vertical directions between borings. Seasonal groundwater fluctuations may affect the distribution of contaminants on this site. This report should be used for the purpose intended, and no other warranty, either expressed or implied, is made.

Tyco Safety Products - Ansul
STS Project No. 4-27380W

Figures

Figure 1 - Site Location Map

Figure 2 - Site Map

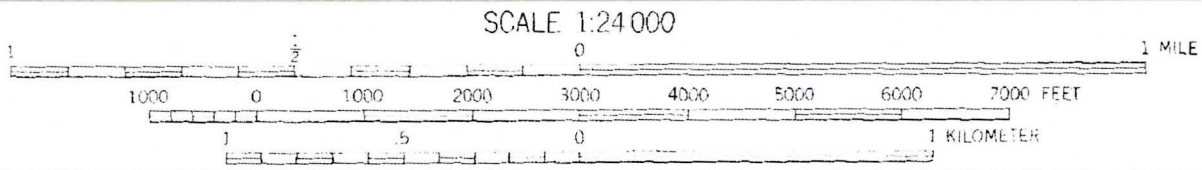
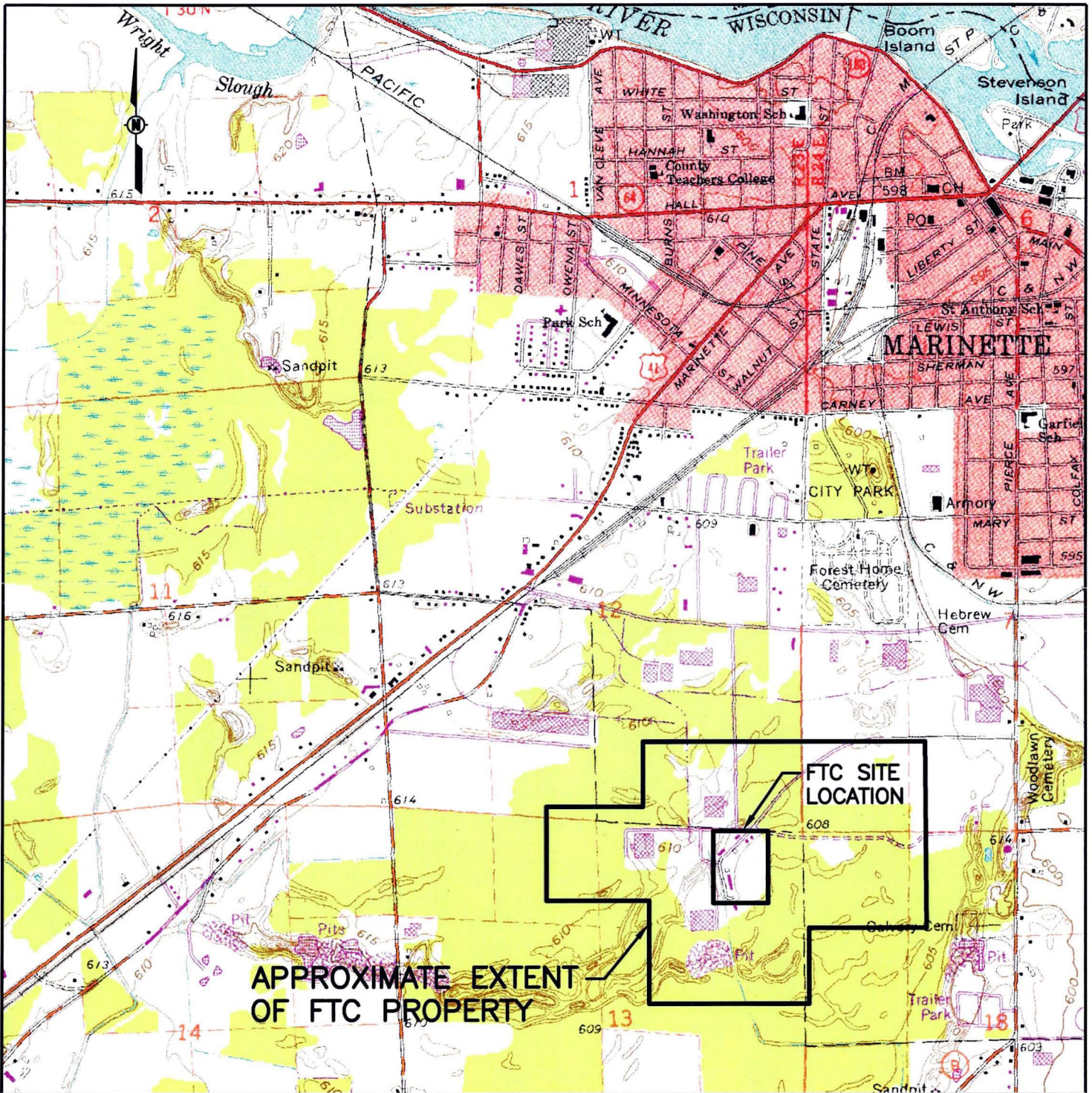
Figure 3 - Groundwater Contour and Concentration Map (11/21/02)

Figure 4 - Groundwater Contour and Concentration Map (5/6/03)

Figure 5 - Groundwater Contour and Concentration Map (6/9/03)

Figure 6 - Groundwater Contour and Concentration Map (8/4/03)





SOURCE: TAKEN FROM U.S.G.S. 7.5 MINUTE QUADRANGLE MAP OF MARINETTE WEST, WIS-MICH, DATED 1976.

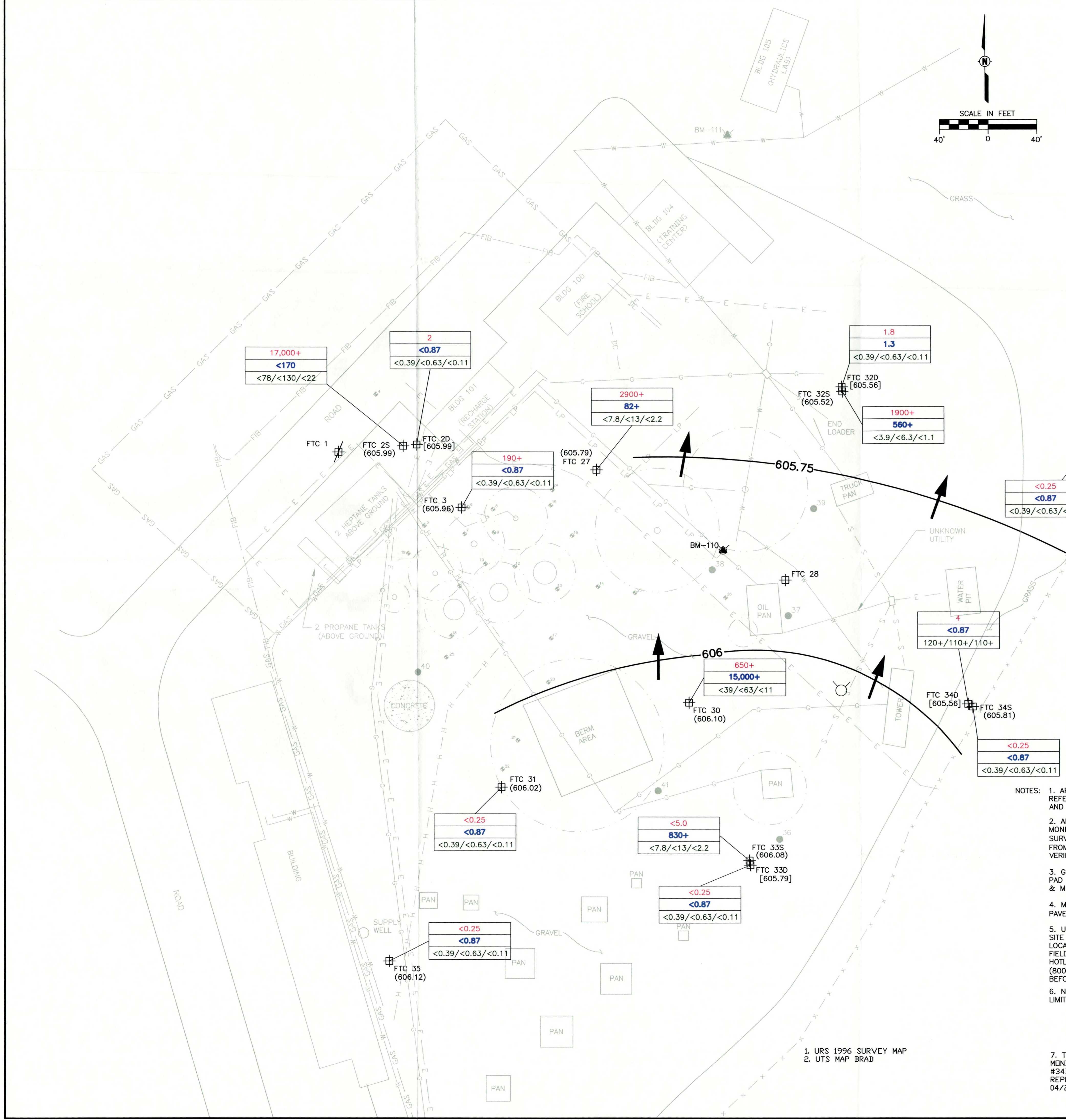


STS Consultants Ltd.
Consulting Engineers

TYCO SAFETY PRODUCTS-ANSUL
FIRE TECHNOLOGY CENTER
INDUSTRIAL PARKWAY DRIVE
MARINETTE, WISCONSIN
SITE LOCATION MAP

DRAWN BY	RLD	1-29-03
CHECKED BY	RJM	1-29-03
APPROVED BY		
CADFILE 427380W001.dwg	SCALE	NTS
STS PROJECT NO. 27380W	FIGURE NO.	1

3/27/03 27380W.dwg 33 11 M, rei



Monitoring Well	Ground Surface Elevation MSL ¹	Well Screen Interval Elevation MSL ²	TPVC Elevation MSL ¹ (feet)	Water
				Elevation MSL* (feet)
FTC-2S	612.0	607 - 597	611.55	605.99
FTC-2D	612.0	585 - 580	611.43	605.99
FTC-3	610.7	605.7 - 595.7	610.28	605.96
FTC-27	610.5	607.5 - 597.5	610.23	605.79
FTC-28	610.3	607.3 - 597.3	609.94	--
FTC-29	609.6	606.6 - 596.6	612.33	605.54
FTC-30	610.1	607.1 - 597.1	609.72	606.10
FTC-31	610.8	607.8 - 597.8	610.53	606.02
FTC-32S	609.2	606.2 - 596.2	608.83	605.52
FTC-32D	609.3	581.3 - 576.3	609.11	605.56
FTC-33S	609.8	606.8 - 596.8	609.42	606.08
FTC-33D	609.8	581.8 - 576.8	609.40	605.79
FTC-34S	609.2	606.2 - 596.2	608.77	605.81
FTC-34D	609.2	581.2 - 576.2	609.00	605.56
FTC-35	611.0	608 - 598	610.51	606.12

Notes:
 1 = STS surveyed Ground Surface and top of PVC Well elevations on 11/21/2002 using local city of = of Marinette Datum for wells except FTC-42 and FTC-44 which were surveyed on 5/6/03.
 2 = Well construction information for wells 2S through 34D obtained from Dames & Moore information = from 1994, 1995, and 1996.
 MSL = Mean Sea Level.
 TPVC = Top of PVC

DATE	BY	DESCRIPTION
1-14-03	RLD	DRAWN BY
5-23-03	RAM	CHECKED BY
		APPROVED BY

LEGEND

- (605.52) GROUNDWATER TABLE ELEVATION (11-21-02)
- [605.56] PIEZOMETRIC ELEVATION (11-21-02)
- ➔ DIRECTION OF GROUNDWATER FLOW
- 606— GROUNDWATER TABLE CONTOUR
- DC DRY CHEMICAL
- S SEWER
- LP LIQUID PROPANE
- H HEPTANE
- F FIBER OPTIC
- GAS NATURAL GAS
- W WATER
- E ELECTRIC
- G GASOLINE
- x FENCE LINE
- BM-111 BENCHMARK
- HYDRANT
- ⊕ AFTC 28 MONITORING WELL
- MARCH 1995 GEOPROBE LOCATION (DAMES & MOORE)
- AUGUST 2002 SOIL SAMPLES (STS)
- FORMER CLAY BURN PADS

GROUNDWATER CONCENTRATION (μg/l) OR PPB(11/21/02)

BENZENE
MTBE
TCE/PCE/V.C.

+ = CHARTER NR 140 ES EXCEEDANCE
 < = NOT DETECTED ABOVE INDICATED METHOD DETECTION LIMIT

- NOTES:
- APPROXIMATE ELEVATIONS ARE REFERENCED TO MARINETTE CITY DATUM AND CONVERTED TO USGS DATUM.
 - APPROXIMATE BUILDING AND MONITORING WELL LOCATIONS BASED ON SURVEY MAP DATED 5-30-96 (RECEIVED FROM DAMES & MOORE) AND FIELD VERIFIED 11-21-02 BY STS.
 - GEOPROBE AND FORMER CLAY BURN PAD LOCATIONS BASED ON 1995 DAMES & MOORE MAPS.
 - MONITORING WELL AFTC 1 (⊕) WAS PAVED OVER IN LATE 1990'S.
 - UTILITY LOCATIONS OBTAINED FROM SITE MAP PROVIDED BY ANSUL. UTILITY LOCATIONS ARE APPROXIMATE AND STS FIELD VERIFIED BY CONTACTING DIGGERS HOTLINE AT (800) 242-8511 (3) WORKING DAYS BEFORE PERFORMING WORK.
 - NR 140 ENFORCEMENT STANDARD LIMITS.
 BENZENE = 5 ppb
 MTBE = 60 ppb
 TCE = 5 ppb
 PCE = 5 ppb
 VC = 0.02 ppb
 - THE PROCTOR PIPE ON MONITORING WELL FTC #34D HEAVED, AND WAS REPLACED BY STS ON 04/29/03

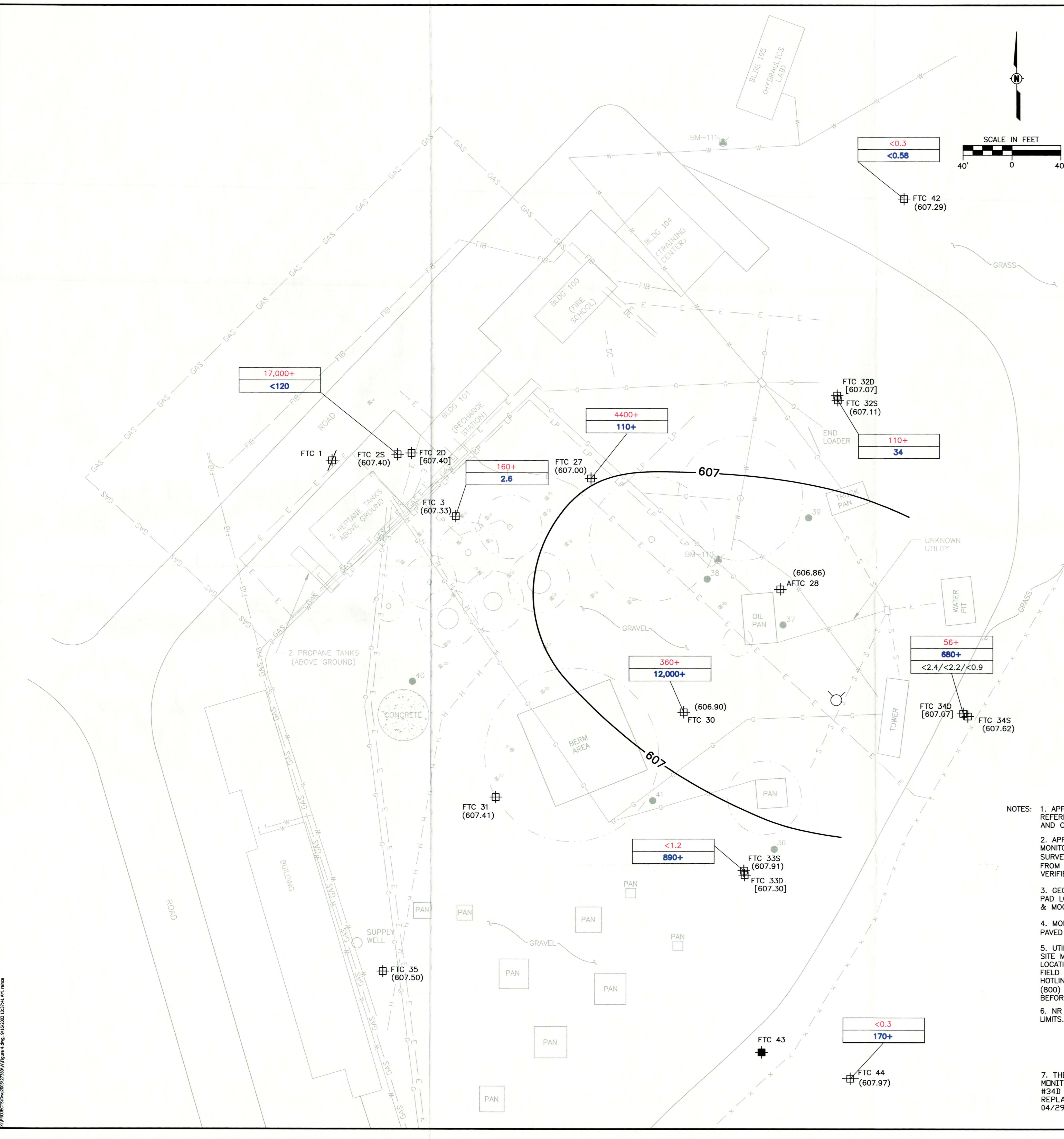
9/2/03 RLD
 DDL'S COMMENTS - TYCO-ANSUL
 DATE 1-14-03
 DATE 5-23-03
 DATE
 DRAWN BY RLD
 CHECKED BY RAM
 APPROVED BY
 CAD FILE X:\PROJECTS\027380\027380\Figure 3.dwg
 REVISION NO.
 DESCRIPTION
 DATE BY

GROUNDWATER TABLE CONTOUR AND ANALYTICAL CONCENTRATION MAP (11-21-02)
 TYCO SAFETY PRODUCTS-ANSUL
 FIRE TECHNOLOGY CENTER
 2700 INDUSTRIAL PARKWAY
 MARINETTE, WISCONSIN

STS
 STS Consultants Ltd.
 Consulting Engineers

STS PROJECT NUMBER	27380W
STS PROJECT FILE	
SCALE	1"=40'
SHEET NUMBER	3

X:\PROJECTS\027380\027380\Figure 3.dwg, 9/14/2003 10:24:00 AM, mcoo



Monitoring Well	Well Schedule			Water Elevation MSL* 5/6/2003 (feet)
	Ground Surface Elevation MSL 1	Well Screen Interval Elevation MSL 2	TPVC Elevation MSL 1 (feet)	
FTC-2S	612.0	607- 597	611.55	607.40
FTC-2D	612.0	585 - 580	611.43	607.40
FTC-3	610.7	605.7 - 595.7	610.28	607.33
FTC-27	610.5	607.5 - 597.5	610.23	607.00
FTC-28	610.3	607.3 - 597.3	609.94	606.86
FTC-29	609.6	606.6 - 596.6	612.33	607.31
FTC-30	610.1	607.1 - 597.1	609.72	606.90
FTC-31	610.8	607.8 - 597.8	610.53	607.41
FTC-32S	609.2	606.2 - 596.2	608.83	607.11
FTC-32D	609.3	581.3 - 576.3	609.11	607.07
FTC-33S	609.8	606.8 - 596.8	609.42	607.91
FTC-33D	609.8	581.8 - 576.8	609.40	607.30
FTC-34S	609.2	606.2 - 596.2	608.77	607.62
FTC-34D	609.2	581.2 - 576.2	609.00	607.07
FTC-29	611.0	608 - 598	610.51	607.50
FTC-42	610.1	605 - 595	609.61	607.29
FTC-44	609.2	604 - 694	611.59	607.97

Notes:

- = STS surveyed Ground Surface and top of PVC Well elevations on 11/21/2002 using local city of Marinette Datum for wells except FTC-42 and FTC-44 which were surveyed on 5/6/03.
- = Well construction information for wells 2S through 34D obtained from Dames & Moore information from 1994, 1995, and 1996.

MSL = Mean Sea Level.
TPVC = Top of PVC

DATE	BY	DESCRIPTION
5-21-03	RLD	DDI'S COMMENTS - TYCO-ANSUL
5-23-03	RJM	

LEGEND

- (605.52) GROUNDWATER TABLE ELEVATION (05-06-03)
- [605.56] PIEZOMETRIC ELEVATION (05-06-03)
- 606— GROUNDWATER TABLE CONTOUR
- DC— DRY CHEMICAL
- S— SEWER
- LP— LIQUID PROPANE
- H— HEPTANE
- FIB— FIBER OPTIC
- GAS— NATURAL GAS
- W— WATER
- E— ELECTRIC
- G— GASOLINE
- x— FENCE LINE
- BM-111 BENCHMARK
- HYDRANT
- SOIL BORING
- MONITORING WELL
- MARCH 1995 GEOPROBE LOCATION (DAMES & MOORE)
- AUGUST 2002 SOIL SAMPLES (STS)
- FORMER CLAY BURN PADS

GROUNDWATER CONCENTRATION (µg/l)

BENZENE
MTBE
TCE/PCE/V.C.

+ = CHARTER NR 140 ES EXCEEDANCE
< = NOT DETECTED ABOVE INDICATED METHOD DETECTION LIMIT

NOTES:

- APPROXIMATE ELEVATIONS ARE REFERENCED TO MARINETTE CITY DATUM AND CONVERTED TO USGS DATUM.
- APPROXIMATE BUILDING AND MONITORING WELL LOCATIONS BASED ON SURVEY MAP DATED 5-30-96 (RECEIVED FROM DAMES & MOORE) AND FIELD VERIFIED 11-21-02 BY STS.
- GEOPROBE AND FORMER CLAY BURN PAD LOCATIONS BASED ON 1995 DAMES & MOORE MAPS.
- MONITORING WELL AFTC 1 WAS PAVED OVER IN LATE 1990'S.
- UTILITY LOCATIONS OBTAINED FROM SITE MAP PROVIDED BY ANSUL. UTILITY LOCATIONS ARE APPROXIMATE AND STS FIELD VERIFIED BY CONTACTING DIGGERS HOTLINE AT (800) 242-8511 (3) WORKING DAYS BEFORE PERFORMING WORK.
- NR 140 ENFORCEMENT STANDARD LIMITS.
BENZENE = 5 ppb
MTBE = 60 ppb
TCE = 5 ppb
PCE = 5 ppb
VC = 0.02 ppb
- THE PROCTOR PIPE ON MONITORING WELL FTC #34D HEAVED, AND WAS REPLACED BY STS ON 04/29/03

GROUNDWATER TABLE CONTOUR AND ANALYTICAL CONCENTRATION MAP (05-06-03)

TYCO SAFETY PRODUCTS-ANSUL
FIRE TECHNOLOGY CENTER
2700 INDUSTRIAL PARKWAY
MARINETTE, WISCONSIN

STS Consultants Ltd.
Consulting Engineers

STS PROJECT NUMBER	27380W
STS PROJECT FILE	
SCALE	1"=40'
SHEET NUMBER	4

9/2/03 RLD
DATE 5-21-03
DATE 5-23-03
DATE
DRAWN BY RLD
CHECKED BY RJM
APPROVED BY
CADFILE X:\PROJECTS\050603\27380\W\Figure 4.dwg
REVISION
DESCRIPTION
DATE

03-38-001345C

Tyco Safety Products - Ansul
STS Project No. 4-27380W

Tables

Table 1 - Soil Analytical Results

Table 2 - Groundwater Field Parameters

Table 3 - Groundwater Analytical Results



Table 1 p1
Soil Analytical Results (1993 to 1995 - Dames and Moore)
Tyco Safety Products - Ansul
Fire Technology Center
Marinette, Wisconsin

	Sample No. Date	FTC1-1 05/19/93	FTC2-2 05/19/93	FTC2-4 05/19/93	FTC3-1 05/19/93	FTC3-4 05/19/93	FTC4-2 03/30/95	FTC10-2 03/30/95	NR 720 RCL	NR 720 RCL	NR 746 - Values				
											Sample Depth (feet)	Moisture	Table 1		Table 2
													1 - 3	3 - 5	7 - 9
GRO	(mg/kg)	<10	922*	<10	<10	<10	<10	4200*	100	--	--	--			
Benzene	(ug/kg)	<1	650*	1400	<1	<1	<5	600*	5.5	--	8500	1100			
Ethylbenzene	(ug/kg)	<1	5000*	110	<1	<1	<5	2200	2900	--	4600	--			
Methyl-tertiary-butyl ether	(ug/kg)	<1	<10	1600	<1	<1	<5	<5	--	--	--	--			
Toluene	(ug/kg)	<1	2300*	1200	<1	<1	<5	1600*	1500	--	38,000	--			
1,2,4-Trimethylbenzene	(ug/kg)	<1	3000	330	<1	<1	<5	32800	--	--	83,000	--			
1,3,5-Trimethylbenzene	(ug/kg)	<1	1500	370	<1	<1	<5	53300	--	--	11,000	--			
Xylenes	(ug/kg)	<1	11800*	580	<1	<1	<15	75000*	4100	--	42,000	--			
Total Organic Carbon	(mg/kg)	19000	5900	3200	5000	47000	--	--	--	--	--	--			
Lead	(mg/kg)	2	6	1.1	0.8	1	1.4	2.5	--	50	--	--			

	Sample No. Date	FTC22-2 03/31/95	FTC27/2-4 04/19/95	FTC28/2-4 04/19/95	FTC29/2-4 04/19/95	FTC30/2-4 04/19/95	FTC31/2-4 04/19/95	NR 720 RCL	NR 720 RCL	NR 746 - Values				
										Sample Depth (feet)	Moisture	Table 1		Table 2
												3 - 5	2 - 4	2 - 4
GRO	(mg/kg)	<10	<10	490*	<10	<10	<10	100	--	--	--			
Benzene	(ug/kg)	<5	<5	<5	<5	<5	<5	5.5	--	8500	1100			
Ethylbenzene	(ug/kg)	<5	<5	1600	<5	<5	<5	2900	--	4600	--			
Methyl-tertiary-butyl ether	(ug/kg)	<5	<5	<5	<5	<5	<5	--	--	--	--			
Toluene	(ug/kg)	<5	<5	1200	<5	<5	<5	1500	--	38,000	--			
1,2,4-Trimethylbenzene	(ug/kg)	<5	<5	7600	<5	<5	<5	--	--	83,000	--			
1,3,5-Trimethylbenzene	(ug/kg)	<5	<5	26000	<5	<5	<5	--	--	11,000	--			
Xylenes	(ug/kg)	<15	<15	13000	<15	<15	<15	4100	--	42,000	--			
Total Organic Carbon	(mg/kg)	--	--	--	--	--	--	--	--	--	--			
Lead	(mg/kg)	2.8	1	2.8	0.7	0.8	0.9	--	50	--	--			

	Sample No. Date	FTC22-2 03/31/95	FTC27/2-4 04/19/95	FTC28/2-4 04/19/95	FTC29/2-4 04/19/95	FTC30/2-4 04/19/95	FTC31/2-4 04/19/95	NR 720 RCL	NR 720 RCL	NR 746 - Values				
										Sample Depth (feet)	Moisture	Table 1		Table 2
												3 - 5	2 - 4	2 - 4
GRO	(mg/kg)	<10	<10	490*	<10	<10	<10	100	--	--	--			
Benzene	(ug/kg)	<5	<5	<5	<5	<5	<5	5.5	--	8500	1100			
Ethylbenzene	(ug/kg)	<5	<5	1600	<5	<5	<5	2900	--	4600	--			
Methyl-tertiary-butyl ether	(ug/kg)	<5	<5	<5	<5	<5	<5	--	--	--	--			
Toluene	(ug/kg)	<5	<5	1200	<5	<5	<5	1500	--	38,000	--			
1,2,4-Trimethylbenzene	(ug/kg)	<5	<5	7600	<5	<5	<5	--	--	83,000	--			
1,3,5-Trimethylbenzene	(ug/kg)	<5	<5	26000	<5	<5	<5	--	--	11,000	--			
Xylenes	(ug/kg)	<15	<15	13000	<15	<15	<15	4100	--	42,000	--			
Total Organic Carbon	(mg/kg)	--	--	--	--	--	--	--	--	--	--			
Lead	(mg/kg)	2.8	1	2.8	0.7	0.8	0.9	--	50	--	--			

Notes:
9600* =Exceeds NR 720 Groundwater Pathway RCL
22000 =Exceeds NR 746 Table 1 SSL

Table 1 p2
 Soil VOC Analytical Results (8/8/02)
 Tyco Safety Products - Ansul
 Fire Technology Center
 Marinette, Wisconsin

Sample No.	Date	MW-35 S-2 08/08/02 Sample Depth (feet) 2 - 3	B-36 S-1 08/08/02 0.5 - 2	B-37 S-1 08/08/02 0.5 - 2	B-38 S-1 08/08/02 0.5 - 2	B-39 S-1 08/08/02 0.5 - 2	B-40 S-1 08/08/02 0.5 - 2	B-41 S-1 08/08/02 0.5 - 2	NR 720 RCL Groundwater Pathway	NR 746 - Values	
										Table 1	Table 2
										Soil Screening Level	Direct Contact
VOCs											
Benzene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	5.5	8500	1100
Bromobenzene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Bromochloromethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Bromodichloromethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Bromoform	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Bromomethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
sec-Butylbenzene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
tert-Butylbenzene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
n-Butylbenzene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Carbon Tetrachloride	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Chloroform	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Chlorobenzene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Dibromochloromethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Chloroethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Chloromethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
2-Chlorotoluene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
4-Chlorotoluene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,2-Dibromo-3-chloropropane	(ug/kg)	<100	<100	<1000	<100	<100	<100	<100	--	--	--
1,2-Dibromoethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Dibromomethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,3-Dichlorobenzene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,4-Dichlorobenzene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,2-Dichloroethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	4.9	600	540
1,2-Dichlorobenzene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,1-Dichloroethene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
cis 1,2-Dichloroethene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Dichlorodifluoromethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
trans 1,2-Dichloroethene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,2-Dichloropropane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,1-Dichloroethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,3-Dichloropropane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
2,2-Dichloropropane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,1-Dichloropropene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
cis-1,3-Dichloropropene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
trans-1,3-Dichloropropene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
di-Isopropyl ether	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Ethylbenzene	(ug/kg)	<25	<25	1100	<25	<25	<25	<25	2900	4600	--
Fluorotrichloromethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Hexachlorobutadiene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Isopropylbenzene	(ug/kg)	<25	<25	540	<25	<25	<25	<25	--	--	--
p-Isopropyltoluene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Methylene Chloride	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Methyl-tertiary-butyl ether	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Naphthalene	(ug/kg)	<25	<25	17000*	<25	<25	<25	<25	400 (1)	2700	20000(2)
n-Propylbenzene	(ug/kg)	<25	<25	990	<25	<25	<25	<25	--	--	--
Styrene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,1,2,2-Tetrachloroethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,1,1,2-Tetrachloroethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Tetrachloroethene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Toluene	(ug/kg)	<25	<25	550	<25	<25	<25	<25	1500	38,000	--
1,2,3-Trichlorobenzene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,2,4-Trichlorobenzene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,1,1-Trichloroethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,1,2-Trichloroethane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,2,4-Trimethylbenzene	(ug/kg)	<25	<25	15000	<25	<25	<25	<25	--	83,000	--
Trichloroethene	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,2,3-Trichloropropane	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
1,3,5-Trimethylbenzene	(ug/kg)	<25	<25	6700	<25	<25	<25	<25	--	11,000	--
Vinyl Chloride	(ug/kg)	<25	<25	<250	<25	<25	<25	<25	--	--	--
Xylenes, -m, -p	(ug/kg)	<25	<25	7300*	<25	29	<25	<25	4100	42,000	--
Xylenes, -o	(ug/kg)	<25	<25	5000*	<25	<25	<25	<25	4100	42,000	--

Notes:

9600* =Exceeds NR 720 Groundwater Pathway RCL

22000 =Exceeds NR 746 Table 1 SSL

(1) =Suggested Groundwater Pathway RCL Value, 1997 WDNR PAH Guidance

(2) =Suggested Non-Industrial Direct Contact Pathway RCL Value, 1997 WDNR PAH Guidance

Table 1 p3
Soil PAH Analytical Results (8/8/02)
Tyco Safety Products - Ansul
Fire Technology Center
Marinette, Wisconsin

Sample No.	Date	MW-35 S-2	B-36 S-1	B-37 S-1	B-38 S-1	B-39 S-1	B-40 S-1	B-41 S-1	Suggested Generic PAH RCLs (WDNR Interim PAH Guidance, 1997)				
									Groundwater Pathway	Direct Contact Pathway			
										Non-industrial		Industrial	
										Ingestion	Inhalation	Ingestion	Inhalation
PAHs		08/08/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02	08/08/02					
	Sample Depth (feet)	2 - 3	0.5 - 2	0.5 - 2	0.5 - 2	0.5 - 2	0.5 - 2	0.5 - 2					
	(ug/kg)												
Acenaphthene	(ug/kg)	<18	<18	3700	<17	<18	<17	<18	38,000	900,000	nd	60,000,000	nd
Acenaphthylene	(ug/kg)	<14	<14	<1800	<13	<14	<13	<13	700	18,000	51,000	390,000	360,000
Anthracene	(ug/kg)	<13	<13	<1800	<13	<13	<12	<13	3,000,000	5,000,000	nd	300,000,000	nd
Benzo(a)anthracene	(ug/kg)	<15	<15	<2000	<14	<15	<14	<15	17,000	88	11,000	3,900	150,000
Benzo(a)pyrene	(ug/kg)	<14	<14	<1800	<13	<14	<13	<13	48,000	8.8	1,600	390	22,000
Benzo(b)fluoranthene	(ug/kg)	<12	<12	<1600	13	<12	<11	<12	360,000	88	4,600	3,900	65,000
Benzo(g,h,i)perylene	(ug/kg)	<13	<13	<1700	<12	<13	<12	<12	6,800,000	1,800	1,100,000	39,000	7,700,000
Benzo(k)fluoranthene	(ug/kg)	<14	<14	<1800	<14	<14	<13	<14	870,000	880	380,000	39,000	5,300,000
Chrysene	(ug/kg)	<15	<15	<2000	<14	<15	<14	<15	37,000	8,800	270,000	390,000	3,800,000
Dibenzo(a,h)anthracene	(ug/kg)	<12	<12	<1600	<12	<12	<11	<12	38,000	8.8	7,800	390	110,000
Fluoranthene	(ug/kg)	<11	<12	<1500	16	<12	<11	<11	500,000	600,000	nd	40,000,000	nd
Fluorene	(ug/kg)	<14	<14	6900	<13	<14	<13	<13	100,000	600,000	nd	40,000,000	nd
Indeno(1,2,3-cd)pyrene	(ug/kg)	<13	<13	<1700	12	<13	<12	<12	680,000	88	54,000	3,900	750,000
1-Methylnaphthalene	(ug/kg)	<15	<16	47000*	<15	<16	<14	<15	23,000	1,100,000	nd	70,000,000	nd
2-Methylnaphthalene	(ug/kg)	<13	<13	71000*	<13	<13	<12	<13	20,000	600,000	nd	40,000,000	nd
Naphthalene	(ug/kg)	<19	<19	9600*	<18	<19	<17	<18	400	60,000	20,000	4,000,000	110,000
Phenanthrene	(ug/kg)	<12	<12	22000	12	<12	<11	<12	1,800	18,000	160,000	390,000	1,100,000
Pyrene	(ug/kg)	<13	<13	<1800	19	<13	<12	<13	8,700,000	500,000	nd	30,000,000	nd

Notes:

RCL = Residual Contaminant Level

nd = not determined

9600* = Exceeds Suggested Generic Groundwater Pathway RCL

22000 = Exceeds Suggested Generic Non-Industrial Direct Pathway RCL

Table 2
Groundwater Field Parameters
Tyco Safety Products - Annual
Fire Technology Center
Marinette, Wisconsin

Monitoring Well	Date Sampled	Ground Surface Elevation MSL ¹	Well Screen Interval Elevation MSL ²	TPVC Elevation MSL ¹ (feet)	Water Level TPVC (feet)	Water Elevation MSL ² (feet)	Dissolved Oxygen (mg/L) (Post Purge)	Ferrous Iron (mg/L) Post Purge	pH (Stan. Units)	Spec. Cond. (umhos/cm)	Temp. (°C)	Color	Odor	Turbidity
FTC-2S	11/21/02	612.0	607-597	611.55	5.56	605.99	--	--	--	--	--	Light Brown	Petroleum	Slight
	5/6/03	612.0	607-597	611.55	4.15	607.40	<1	10+	6.49	1056	7.0	Light Brown	Petroleum	Slight
	6/9/03	612.0	607-597	611.55	4.38	607.17	--	--	--	--	--	--	--	--
	8/4/03	612.0	607-597	611.55	5.10	606.45	--	--	--	--	--	--	--	--
FTC-2D	11/21/02	612.0	585-580	611.43	5.44	605.99	--	--	--	--	--	--	--	--
	5/6/03	612.0	585-580	611.43	4.03	607.40	1.5	<0.1	6.2	819	7.1	Clear	None	Clear
	6/9/03	612.0	585-580	611.43	4.26	607.17	--	--	--	--	--	--	--	--
	8/4/03	612.0	585-580	611.43	5.02	606.41	--	--	--	--	--	--	--	--
FTC-3	11/21/02	610.7	605.7-595.7	610.28	4.32	605.96	--	--	--	--	--	Light Brown	Slight Petroleum	Slight
	5/6/03	610.7	605.7-595.7	610.28	2.95	607.33	1.0	10+	6.79	1063	6.3	Light Brown	Slight Petroleum	Slight
	6/9/03	610.7	605.7-595.7	610.28	3.13	607.15	--	--	--	--	--	--	--	--
	8/4/03	610.7	605.7-595.7	610.28	3.81	606.47	--	--	--	--	--	--	--	--
FTC-37	11/21/02	610.5	607.5-597.5	610.23	4.44	605.99	--	--	--	--	--	Black	Slight Petroleum	Slight
	5/6/03	610.5	607.5-597.5	610.23	3.23	607.00	--	--	7.84	5800	6.2	Black	Slight Petroleum	Turbid
	6/9/03	610.5	607.5-597.5	610.23	3.28	606.95	--	--	--	--	--	--	--	--
	8/4/03	610.5	607.5-597.5	610.23	4.01	606.22	--	--	--	--	--	--	--	--
FTC-28	11/21/02	610.3	607.3-597.3	609.94	--	--	--	--	--	--	--	--	--	--
	5/6/03	610.3	607.3-597.3	609.94	3.08	606.86	--	--	--	--	--	Black	Petroleum	Turbid
	6/9/03	610.3	607.3-597.3	609.94	3.56	606.38	--	--	--	--	--	--	--	--
	8/4/03	610.3	607.3-597.3	609.94	2.20	607.74	--	--	--	--	--	--	--	--
FTC-29	11/21/02	609.6	606.6-596.6	612.33	6.79	605.54	5.0	<0.1	--	--	--	Clear	None	Slight
	5/6/03	609.6	606.6-596.6	612.33	5.02	607.31	10+	<0.1	7.24	459	6.9	Clear	None	Slight
	6/9/03	609.6	606.6-596.6	612.33	5.53	606.80	--	--	--	--	--	--	--	--
	8/4/03	609.6	606.6-596.6	612.33	6.35	605.98	--	--	--	--	--	--	--	--
FTC-30	11/21/02	610.1	607.1-597.1	609.72	3.82	606.10	--	--	--	--	--	Light Brown	Slight	Slight
	5/6/03	610.1	607.1-597.1	609.72	2.82	606.90	4.0	10+	6.71	3190	7.4	Light Brown	Slight	Slight
	6/9/03	610.1	607.1-597.1	609.72	2.70	607.02	--	--	--	--	--	--	--	--
	8/4/03	610.1	607.1-597.1	609.72	2.98	606.74	--	--	--	--	--	--	--	--
FTC-31	11/21/02	610.8	607.8-597.8	610.53	4.51	606.02	--	--	--	--	--	--	--	--
	5/6/03	610.8	607.8-597.8	610.53	3.12	607.41	6.0	0.2	7.09	1300	6.3	Clear	None	Slight
	6/9/03	610.8	607.8-597.8	610.53	3.33	607.20	--	--	--	--	--	--	--	--
	8/4/03	610.8	607.8-597.8	610.53	4.01	606.52	--	--	--	--	--	--	--	--
FTC-32S	11/21/02	609.2	606.2-596.2	608.83	3.31	605.52	--	--	--	--	--	Black	Slight Petroleum	Slight
	5/6/03	609.2	606.2-596.2	608.83	1.72	607.11	--	--	9.39	4740	6.7	Black	Slight Petroleum	Turbid
	6/9/03	609.2	606.2-596.2	608.83	2.03	606.80	--	--	--	--	--	--	--	--
	8/4/03	609.2	606.2-596.2	608.83	2.87	605.96	--	--	--	--	--	--	--	--
FTC-32D	11/21/02	609.3	581.3-576.3	609.11	-3.53	605.56	1.0	2	--	--	--	Clear	None	Slight
	5/6/03	609.3	581.3-576.3	609.11	2.04	607.07	2.0	2	7.24	6.95	6.3	Clear	None	Slight
	6/9/03	609.3	581.3-576.3	609.11	2.35	606.76	--	--	--	--	--	--	--	--
	8/4/03	609.3	581.3-576.3	609.11	3.20	605.91	--	--	--	--	--	--	--	--
FTC-33S	11/21/02	609.8	606.8-596.8	609.42	3.34	606.08	--	--	--	--	--	Black	Slight Petroleum	Slight
	5/6/03	609.8	606.8-596.8	609.42	1.51	607.91	--	--	7.39	2360	5.8	Black	Organic	Slight
	6/9/03	609.8	606.8-596.8	609.42	1.95	607.47	--	--	--	--	--	--	--	--
	8/4/03	609.8	606.8-596.8	609.42	2.65	606.77	--	--	--	--	--	--	--	--
FTC-33D	11/21/02	609.8	581.8-576.8	609.40	3.61	605.79	<0.1	<0.1	--	--	--	Clear	None	Clear
	5/6/03	609.8	581.8-576.8	609.40	2.10	607.30	6.0	<0.1	7.12	56	5.9	Clear	None	Clear
	6/9/03	609.8	581.8-576.8	609.40	2.42	606.98	--	--	--	--	--	--	--	--
	8/4/03	609.8	581.8-576.8	609.40	3.26	606.14	--	--	--	--	--	--	--	--
FTC-34S	11/21/02	609.2	606.2-596.2	608.77	2.96	605.81	4.0	0.2	--	--	--	Clear	None	None
	5/6/03	609.2	606.2-596.2	608.77	1.15	607.82	5.0	<0.1	7.00	289	6.3	Clear	None	Slight
	6/9/03	609.2	606.2-596.2	608.77	1.54	607.23	--	--	--	--	--	--	--	--
	8/4/03	609.2	606.2-596.2	608.77	2.43	606.34	--	--	--	--	--	--	--	--
FTC-34D	11/21/02	609.2	581.2-576.2	609.00	3.44	605.56	1.0	2	--	--	--	Light Brown	None	Slight
	4/29/03	609.2	581.2-576.2	609.00	--	--	--	--	--	--	--	Light Brown	None	Slight
	5/6/03	609.2	581.2-576.2	609.00	1.93	607.07	--	--	8.67	2650	8.3	Dark Brown	Organic	Slight
	6/9/03	609.2	581.2-576.2	609.00	2.21	606.79	--	--	--	--	--	Light Brown	Organic	Slight
8/4/03	609.2	581.2-576.2	609.00	3.13	605.87	--	--	--	--	--	Light Brown	Organic	Slight	
FTC-35	11/21/02	611.0	608-598	610.51	4.39	606.12	3.0	0.4	--	--	--	Clear	None	Slight
	5/6/03	611.0	608-598	610.51	3.01	607.50	5.0	0.3	7.06	988	6.4	Clear	None	Slight
	6/9/03	611.0	608-598	610.51	3.22	607.29	--	--	--	--	--	--	--	--
	8/4/03	611.0	608-598	610.51	3.94	606.57	--	--	--	--	--	--	--	--
FTC-42	5/6/03	610.1	605-595	609.61	2.32	607.29	--	--	7.17	1315	6.7	Dark Brown	Organic	Slight
	6/9/03	610.1	605-595	609.61	2.71	606.90	--	--	--	--	--	--	--	--
	8/4/03	610.1	605-595	609.61	3.26	606.35	--	--	--	--	--	--	--	--
FTC-44	5/6/03	609.2	604-604	611.59	3.62	607.97	--	--	6.78	1555	6.3	Black	Organic	Turbid
	6/9/03	609.2	604-604	611.59	3.99	607.60	--	--	--	--	--	Black	Organic	Turbid
	8/4/03	609.2	604-604	611.59	4.85	606.74	--	--	--	--	--	--	--	--
FTC-45	6/9/03	607.3	605-603	610.08	2.82	607.26	--	--	--	--	--	--	--	--
	8/4/03	629/01	605-603	610.08	3.66	606.42	--	--	--	--	--	Light Brown	--	Slight

Notes:

1 = STS surveyed Ground Surface and top of PVC Well elevations on 11/21/2002 using local city of Marinette Datum for wells except FTC-42 and FTC-44 which were surveyed on 5/6/03.

2 = Well construction information for wells 2S through 34D obtained from Dances & Moon information from 1994, 1995, and 1996.

MSL = Mean Sea Level.

mg/L = milligram per liter

TPVC = Top of PVC

Table 3 p 1
 Groundwater Analytical Results
 Monitoring Well FTC-1
 Tyco Safety Products - Ansil
 Fire Technology Center
 Marinette, Wisconsin

FTC-1						
Ground Surface Elevation (MSL) =		(1)				
Top of Screen Elevation (MSL) =		(2)				
Bottom of Screen Elevation (MSL) =		(2)				
	Sample Date	5/21/93	4/20/95	5/1/96	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)						
Benzene	(µg/L)	100	<1	<0.5	5	0.5
Bromobenzene	(µg/L)	<5	--	--	--	--
Bromochloromethane	(µg/L)	<5	--	--	--	--
Bromodichloromethane	(µg/L)	<5	--	--	0.6	0.06
Bromoform	(µg/L)	<5	--	--	--	--
Bromomethane	(µg/L)	<10	--	--	--	--
sec-Butylbenzene	(µg/L)	<5	--	--	--	--
tert-Butylbenzene	(µg/L)	<5	--	--	--	--
n-Butylbenzene	(µg/L)	<5	--	--	--	--
Carbon Tetrachloride	(µg/L)	<5	--	--	5	0.5
Chloroform	(µg/L)	<5	--	--	6	0.6
Chlorobenzene	(µg/L)	<5	--	--	--	--
Chlorodibromomethane	(µg/L)	<5	--	--	--	--
Chloroethane	(µg/L)	<5	--	--	400	80
Chloromethane	(µg/L)	<10	--	--	3	0.3
2-Chlorotoluene	(µg/L)	<5	--	--	--	--
4-Chlorotoluene	(µg/L)	<5	--	--	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	<5	--	--	0.2	0.02
1,2-Dibromoethane	(µg/L)	<5	--	--	--	--
Dibromomethane	(µg/L)	<5	--	--	--	--
1,3-Dichlorobenzene	(µg/L)	<5	--	--	1250	125
1,4-Dichlorobenzene	(µg/L)	<5	--	--	75	15
1,2-Dichloroethane	(µg/L)	<5	--	--	5	0.5
1,2-Dichlorobenzene	(µg/L)	<5	--	--	600	60
1,1-Dichloroethene	(µg/L)	<5	--	--	7	0.7
cis 1,2-Dichloroethene	(µg/L)	<5	--	--	--	--
Dichlorodifluoromethane	(µg/L)	<10	--	--	1000	200
trans 1,2-Dichloroethene	(µg/L)	<5	--	--	--	--
1,2-Dichloropropane	(µg/L)	<5	--	--	0.2	0.02
1,1-Dichloroethane	(µg/L)	<5	--	--	850	85
1,3-Dichloropropane	(µg/L)	<5	--	--	--	--
2,2-Dichloropropane	(µg/L)	<5	--	--	--	--
1,1-Dichloropropene	(µg/L)	<5	--	--	--	--
cis-1,3-Dichloropropene	(µg/L)	<5	--	--	--	--
trans-1,3-Dichloropropene	(µg/L)	<5	--	--	--	--
Di-isopropyl ether	(µg/L)	<5	--	--	--	--
Ethylbenzene	(µg/L)	13	<1	<1	700	140
Fluorotrichloromethane	(µg/L)	<5	--	--	--	--
Hexachlorobutadiene	(µg/L)	<5	--	--	--	--
Isopropylbenzene	(µg/L)	<5	--	--	--	--
p-Isopropyltoluene	(µg/L)	<5	--	--	--	--
Methylene Chloride	(µg/L)	<5	--	--	5	0.5
Methyl tert-butyl ether	(µg/L)	<5	<1	1.6	60	12
Naphthalene	(µg/L)	<5	--	--	40	8
n-Propylbenzene	(µg/L)	<5	--	--	--	--
Styrene	(µg/L)	<5	--	--	--	--
1,1,2,2-Tetrachloroethane	(µg/L)	<5	--	--	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	<5	--	--	--	--
Tetrachloroethene	(µg/L)	<5	--	--	5	0.5
Toluene	(µg/L)	140	<1	1.2	1000	200
1,2,3-Trichlorobenzene	(µg/L)	<5	--	--	--	--
1,2,4-Trichlorobenzene	(µg/L)	<5	--	--	70	14
1,1,1-Trichloroethane	(µg/L)	<5	--	--	200	40
1,1,2-Trichloroethane	(µg/L)	<5	--	--	5	0.5
Total Trimethylbenzene	(µg/L)	17	<2	<2	480	96
Trichloroethene	(µg/L)	<5	--	--	5	0.5
1,2,3-Trichloropropane	(µg/L)	<5	--	--	--	--
Vinyl Chloride	(µg/L)	<10	--	--	0.2	0.02
Xylenes	(µg/L)	58	<3	<3	10,000	1000
Lead	(mg/l)	<0.002	<0.002	<0.005	0.015	0.0015
Acenaphthene	(µg/l)	--	--	--	--	--
Acenaphthylene	(µg/l)	--	--	--	--	--
Anthracene	(µg/l)	--	--	--	3000	600
Benzo(a)anthracene	(µg/l)	--	--	--	--	--
Benzo(a)fluorene	(µg/l)	--	--	--	0.2	0.02
Benzo(b)fluoranthene	(µg/l)	--	--	--	0.2	0.02
Benzo(ghi)Perylene	(µg/l)	--	--	--	--	--
Benzo(k)fluoranthene	(µg/l)	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	(µg/l)	--	--	--	--	--
Chrysene	(µg/l)	--	--	--	--	--
Dibenzo(a,h)Anthracene	(µg/l)	--	--	--	--	--
Fluoranthene	(µg/l)	--	--	--	400	80
Fluorene	(µg/l)	--	--	--	400	80
2-Methyl Naphthalene	(µg/l)	--	--	--	--	--
1-Methyl Naphthalene	(µg/l)	--	--	--	--	--
Naphthalene	(µg/l)	--	--	--	40	8
Phenanthrene	(µg/l)	--	--	--	--	--
Pyrene	(µg/l)	--	--	--	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 µg/L = micrograms per liter
 (1) = Elevation based on STS 11/21/02 survey
 (2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 2
Groundwater Analytical Results
Monitoring Well FTC-2S
Tyco Safety Products - Ansil
Fire Technology Center
Marinette, Wisconsin

FTC-2S

Ground Surface Elevation (MSL) = 612 (1)		Top of Screen Elevation (MSL) = 607 (2)		Bottom of Screen Elevation (MSL) = 597 (2)				
Sample Date	5/21/93	4/20/95	5/1/96	11/21/02	5/6/03	ES (ug/L)	PAL (ug/L)	
Groundwater Elevation (MSL)				605.99	607.40			
Benzene	(ug/L)	11800	9000	19000	17000	17000	5	0.5
Bromobenzene	(ug/L)	<500	--	--	<150	--	--	--
Bromochloromethane	(ug/L)	<500	--	--	<130	--	--	--
Bromodichloromethane	(ug/L)	<500	--	--	<46	--	0.6	0.06
Bromoform	(ug/L)	<500	--	--	<90	--	--	--
Bromomethane	(ug/L)	<1000	--	--	<170	--	--	--
sec-Butylbenzene	(ug/L)	<500	--	--	<120	--	--	--
tert-Butylbenzene	(ug/L)	<500	--	--	<190	--	--	--
n-Butylbenzene	(ug/L)	<500	--	--	<130	--	--	--
Carbon Tetrachloride	(ug/L)	<500	--	--	<94	--	5	0.5
Chloroform	(ug/L)	<500	--	--	<90	--	6	0.6
Chlorobenzene	(ug/L)	<500	--	--	<120	--	--	--
Chlorodibromomethane	(ug/L)	<500	--	--	<170	--	--	--
Chloroethane	(ug/L)	<1000	--	--	<170	--	400	80
Chloromethane	(ug/L)	<1000	--	--	<54	--	3	0.3
2-Chlorotoluene	(ug/L)	<500	--	--	<130	--	--	--
4-Chlorotoluene	(ug/L)	<500	--	--	<180	--	--	--
1,2-Dibromo-3-Chloropropane	(ug/L)	<500	--	--	<180	--	0.2	0.02
1,2-Dibromoethane	(ug/L)	<500	--	--	<130	--	--	--
Dibromomethane	(ug/L)	<500	--	--	<150	--	--	--
1,3-Dichlorobenzene	(ug/L)	<500	--	--	<120	--	1250	125
1,4-Dichlorobenzene	(ug/L)	<500	--	--	<130	--	75	15
1,2-Dichloroethane	(ug/L)	<500	--	--	<110	--	5	0.5
1,2-Dichlorobenzene	(ug/L)	<500	--	--	<140	--	600	60
1,1-Dichloroethene	(ug/L)	<500	--	--	<110	--	7	0.7
cis-1,2-Dichloroethene	(ug/L)	<500	--	--	<160	--	--	--
Dichlorodifluoromethane	(ug/L)	<1000	--	--	<110	--	1000	200
trans-1,2-Dichloroethene	(ug/L)	<500	--	--	<160	--	--	--
1,2-Dichloropropane	(ug/L)	<500	--	--	<78	--	0.2	0.02
1,1-Dichloroethane	(ug/L)	<500	--	--	<170	--	850	85
1,3-Dichloropropane	(ug/L)	<500	--	--	<120	--	--	--
2,2-Dichloropropane	(ug/L)	<500	--	--	<200	--	--	--
1,1-Dichloropropene	(ug/L)	<500	--	--	<160	--	--	--
cis-1,3-Dichloropropene	(ug/L)	<500	--	--	<110	--	--	--
trans-1,3-Dichloropropene	(ug/L)	<500	--	--	<130	--	--	--
Di-isopropyl ether	(ug/L)	<500	--	--	<120	--	--	--
Ethylbenzene	(ug/L)	1500	870	1600	1600	2300	700	140
Fluorotrichloromethane	(ug/L)	<500	--	--	<170	--	--	--
Hexachlorobutadiene	(ug/L)	<500	--	--	<190	--	--	--
Isopropylbenzene	(ug/L)	<500	--	--	<130	--	--	--
p-Isopropyltoluene	(ug/L)	<500	--	--	<120	--	--	--
Methylene Chloride	(ug/L)	<500	--	--	<94	--	5	0.5
Methyl tert-butyl ether	(ug/L)	<500	2600	2000	<170	<120	60	12
Naphthalene	(ug/L)	<500	--	--	230	520	40	8
n-Propylbenzene	(ug/L)	<500	--	--	<190	--	--	--
Styrene	(ug/L)	<500	--	--	<120	--	--	--
1,1,2,2-Tetrachloroethane	(ug/L)	<500	--	--	<150	--	0.2	0.02
1,1,1,2-Tetrachloroethane	(ug/L)	<500	--	--	<190	--	--	--
Tetrachloroethene	(ug/L)	<500	--	--	<130	--	5	0.5
Toluene	(ug/L)	11000	9300	20000	24000	34000	1000	200
1,2,3-Trichlorobenzene	(ug/L)	<500	--	--	<150	--	--	--
1,2,4-Trichlorobenzene	(ug/L)	<500	--	--	<110	--	70	14
1,1,1-Trichloroethane	(ug/L)	<500	--	--	<130	--	200	40
1,1,2-Trichloroethane	(ug/L)	<500	--	--	<100	--	5	0.5
Total Trimethylbenzene	(ug/L)	2400	900	1250	1300	2100	480	96
Trichloroethene	(ug/L)	<500	--	--	<78	--	5	0.5
1,2,3-Trichloropropane	(ug/L)	<500	--	--	<180	--	--	--
Vinyl Chloride	(ug/L)	<1000	--	--	<22	--	0.2	0.02
Xylenes	(ug/L)	4,800	2,500	7,100	6,900	10700	10,000	1000
Lead	(mg/l)	0.06	0.02	0.025	--	0.020	0.015	0.0015
Acenaphthene	(ug/l)	--	--	--	<9.0	--	--	--
Acenaphthylene	(ug/l)	--	--	--	<9.5	--	--	--
Anthracene	(ug/l)	--	--	--	<10	--	3000	600
Benzo(a)anthracene	(ug/l)	--	--	--	<6.0	--	--	--
Benzo(a)Pyrene	(ug/l)	--	--	--	<7.0	--	0.2	0.02
Benzo(b)Fluoranthene	(ug/l)	--	--	--	<6.5	--	0.2	0.02
Benzo(ghi)Perylene	(ug/l)	--	--	--	<8.0	--	--	--
Benzo(k)fluoranthene	(ug/l)	--	--	--	<9.5	--	--	--
Indeno(1,2,3-cd)pyrene	(ug/l)	--	--	--	<10	--	--	--
Chrysene	(ug/l)	--	--	--	<7.0	--	--	--
Dibenzo(a,h)Anthracene	(ug/l)	--	--	--	<8.0	--	--	--
Fluoranthene	(ug/l)	--	--	--	<6.5	--	400	80
Fluorene	(ug/l)	--	--	--	<8.5	--	400	80
2-Methyl Naphthalene	(ug/l)	--	--	--	97	--	--	--
1-Methyl Naphthalene	(ug/l)	--	--	--	49	--	--	--
Naphthalene	(ug/l)	--	--	--	200	--	40	8
Phenanthrene	(ug/l)	--	--	--	<8.0	--	--	--
Pyrene	(ug/l)	--	--	--	<8.5	--	250	50

Notes:
ES = NR 140 Enforcement Standard established March 2000
PAL = NR 140 Preventive Action Limit established March 2000
NR 140 ES Exceedance
ug/L = micrograms per liter
(1) = Elevation based on STS 11/21/02 survey
(2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 3
 Groundwater Analytical Results
 Monitoring Well FTC-2D
 Tyco Safety Products - Ansal
 Fire Technology Center
 Marinette, Wisconsin

FTC-2D							
Ground Surface Elevation (MSL) =		612	(1)				
Top of Screen Elevation (MSL) =		585	(2)				
Bottom of Screen Elevation (MSL) =		580	(2)				
	Sample Date	5/21/93	4/20/95	5/1/96	11/21/02	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)					605.99		
Benzene	(µg/L)	22	3	14	2	5	0.5
Bromobenzene	(µg/L)	<5	--	--	<0.74	--	--
Bromochloromethane	(µg/L)	<5	--	--	<0.67	--	--
Bromodichloromethane	(µg/L)	<5	--	--	<0.23	0.6	0.06
Bromoform	(µg/L)	<5	--	--	<0.45	--	--
Bromomethane	(µg/L)	<10	--	--	<0.87	--	--
sec-Butylbenzene	(µg/L)	<5	--	--	<0.62	--	--
tert-Butylbenzene	(µg/L)	<5	--	--	<0.96	--	--
n-Butylbenzene	(µg/L)	<5	--	--	<0.65	--	--
Carbon Tetrachloride	(µg/L)	<5	--	--	<0.47	5	0.5
Chloroform	(µg/L)	<5	--	--	<0.45	6	0.6
Chlorobenzene	(µg/L)	<5	--	--	<0.58	--	--
Chlorodibromomethane	(µg/L)	<5	--	--	<0.84	--	--
Chloroethane	(µg/L)	<10	--	--	<0.84	400	80
Chloromethane	(µg/L)	<10	--	--	<0.27	3	0.3
2-Chlorotoluene	(µg/L)	<5	--	--	<0.66	--	--
4-Chlorotoluene	(µg/L)	<5	--	--	<0.89	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	<5	--	--	<0.88	0.2	0.02
1,2-Dibromoethane	(µg/L)	<5	--	--	<0.66	--	--
Dibromomethane	(µg/L)	<5	--	--	<0.74	--	--
1,3-Dichlorobenzene	(µg/L)	<5	--	--	<0.58	1250	125
1,4-Dichlorobenzene	(µg/L)	<5	--	--	<0.63	75	15
1,2-Dichloroethane	(µg/L)	<5	--	--	<0.55	5	0.5
1,2-Dichlorobenzene	(µg/L)	<5	--	--	<0.71	600	60
1,1-Dichloroethene	(µg/L)	<5	--	--	<0.56	7	0.7
cis-1,2-Dichloroethene	(µg/L)	<5	--	--	<0.81	--	--
Dichlorodifluoromethane	(µg/L)	<10	--	--	<0.57	1000	200
trans-1,2-Dichloroethene	(µg/L)	<5	--	--	<0.80	--	--
1,2-Dichloropropane	(µg/L)	<5	--	--	<0.39	0.2	0.02
1,1-Dichloroethane	(µg/L)	<5	--	--	<0.87	850	85
1,3-Dichloropropane	(µg/L)	<5	--	--	<0.62	--	--
2,2-Dichloropropane	(µg/L)	<5	--	--	<0.99	--	--
1,1-Dichloropropene	(µg/L)	<5	--	--	<0.79	--	--
cis-1,3-Dichloropropene	(µg/L)	<5	--	--	<0.57	--	--
trans-1,3-Dichloropropene	(µg/L)	<5	--	--	<0.64	--	--
Di-isopropyl ether	(µg/L)	<5	--	--	<0.60	--	--
Ethylbenzene	(µg/L)	32	<1	1.1	<0.53	700	140
Fluorotrichloromethane	(µg/L)	<5	--	--	<0.85	--	--
Hexachlorobutadiene	(µg/L)	<5	--	--	<0.95	--	--
Isopropylbenzene	(µg/L)	<5	--	--	<0.66	--	--
p-Isopropyltoluene	(µg/L)	<5	--	--	<0.58	--	--
Methylene Chloride	(µg/L)	<5	--	--	0.65	5	0.5
Methyl tert-butyl ether	(µg/L)	<5	4	13	<0.87	60	12
Naphthalene	(µg/L)	<5	--	--	<0.63	40	8
n-Propylbenzene	(µg/L)	<5	--	--	<0.95	--	--
Styrene	(µg/L)	<5	--	--	<0.62	--	--
1,1,2,2-Tetrachloroethane	(µg/L)	<5	--	--	<0.77	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	<5	--	--	<0.95	--	--
Tetrachloroethene	(µg/L)	<5	--	--	<0.63	5	0.5
Toluene	(µg/L)	71	1	7.6	<0.84	1000	200
1,2,3-Trichlorobenzene	(µg/L)	<5	--	--	<0.77	--	--
1,2,4-Trichlorobenzene	(µg/L)	<5	--	--	<0.57	70	14
1,1,1-Trichloroethane	(µg/L)	<5	--	--	<0.65	200	40
1,1,2-Trichloroethane	(µg/L)	<5	--	--	<0.50	5	0.5
Total Trimethylbenzene	(µg/L)	66	<2	<2	<1.33	480	96
Trichloroethene	(µg/L)	<5	--	--	<0.39	5	0.5
1,2,3-Trichloropropane	(µg/L)	<5	--	--	<0.92	--	--
Vinyl Chloride	(µg/L)	<10	--	--	<0.11	0.2	0.02
Xylenes	(µg/L)	93	<3	<3	<1.83	10,000	1000
Lead	(mg/l)	<0.002	<0.002	<0.005	--	0.015	0.0015
Acenaphthene	(µg/l)	--	--	--	<0.018	--	--
Acenaphthylene	(µg/l)	--	--	--	<0.019	--	--
Anthracene	(µg/l)	--	--	--	<0.020	3000	600
Benzo(a)anthracene	(µg/l)	--	--	--	<0.012	--	--
Benzo(a)Pyrene	(µg/l)	--	--	--	<0.014	0.2	0.02
Benzo(b)Fluoranthene	(µg/l)	--	--	--	<0.013	0.2	0.02
Benzo(ghi)Perylene	(µg/l)	--	--	--	<0.016	--	--
Benzo(k)fluoranthene	(µg/l)	--	--	--	<0.019	--	--
Indeno(1,2,3-cd)pyrene	(µg/l)	--	--	--	<0.021	--	--
Chrysene	(µg/l)	--	--	--	<0.014	--	--
Dibenzo(a,h)Anthracene	(µg/l)	--	--	--	<0.016	--	--
Fluoranthene	(µg/l)	--	--	--	<0.013	400	80
Fluorene	(µg/l)	--	--	--	<0.017	400	80
2-Methyl Naphthalene	(µg/l)	--	--	--	0.33	--	--
1-Methyl Naphthalene	(µg/l)	--	--	--	0.18	--	--
Naphthalene	(µg/l)	--	--	--	0.36	40	8
Phenanthrene	(µg/l)	--	--	--	<0.016	--	--
Pyrene	(µg/l)	--	--	--	<0.017	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 µg/L = micrograms per liter
 (1) = Elevation based on STS 11/21/02 survey
 (2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 4
 Groundwater Analytical Results
 Monitoring Well FTC-3
 Tyco Safety Products - Ansd
 Fire Technology Center
 Marinette, Wisconsin

FTC-3							
Ground Surface Elevation (MSL) = 610.7 (1)							
Top of Screen Elevation (MSL) = 605.7 (2)							
Bottom of Screen Elevation (MSL) = 595.7 (2)							
	Sample Date	5/21/93	5/1/96	11/21/02	5/6/03	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)				605.96	607.33		
Benzene	(ug/L)	1200	90	190	160	5	0.5
Bromobenzene	(ug/L)	<25	--	<0.74	--	--	--
Bromochloromethane	(ug/L)	<25	--	<0.67	--	--	--
Bromodichloromethane	(ug/L)	<25	--	<0.23	--	0.6	0.06
Bromofom	(ug/L)	<25	--	<0.45	--	--	--
Bromomethane	(ug/L)	<25	--	<0.87	--	--	--
sec-Butylbenzene	(ug/L)	<25	--	<0.62	--	--	--
tert-Butylbenzene	(ug/L)	<25	--	<0.96	--	--	--
n-Butylbenzene	(ug/L)	<25	--	<0.65	--	--	--
Carbon Tetrachloride	(ug/L)	<25	--	<0.47	--	5	0.5
Chlorofom	(ug/L)	<25	--	<0.45	--	6	0.6
Chlorobenzene	(ug/L)	<25	--	<0.58	--	--	--
Chlorodibromomethane	(ug/L)	<25	--	<0.84	--	--	--
Chloroethane	(ug/L)	<25	--	<0.84	--	400	80
Chloromethane	(ug/L)	<25	--	<0.27	--	3	0.3
2-Chlorotoluene	(ug/L)	<25	--	<0.66	--	--	--
4-Chlorotoluene	(ug/L)	<25	--	<0.89	--	--	--
1,2-Dibromo-3-Chloropropane	(ug/L)	<25	--	<0.88	--	0.2	0.02
1,2-Dibromomethane	(ug/L)	<25	--	<0.66	--	--	--
Dibromomethane	(ug/L)	<25	--	<0.74	--	--	--
1,3-Dichlorobenzene	(ug/L)	<25	--	<0.58	--	1250	125
1,4-Dichlorobenzene	(ug/L)	<25	--	<0.63	--	75	15
1,2-Dichloroethane	(ug/L)	<25	--	<0.55	--	5	0.5
1,2-Dichlorobenzene	(ug/L)	<25	--	<0.71	--	600	60
1,1-Dichloroethene	(ug/L)	<25	--	<0.56	--	7	0.7
cis-1,2-Dichloroethene	(ug/L)	<25	--	<0.81	--	--	--
Dichlorodifluoromethane	(ug/L)	<25	--	<0.57	--	1000	200
trans-1,2-Dichloroethene	(ug/L)	<25	--	<0.80	--	--	--
1,2-Dichloropropane	(ug/L)	<25	--	<0.39	--	0.2	0.02
1,1-Dichloroethane	(ug/L)	<25	--	<0.87	--	850	85
1,3-Dichloropropane	(ug/L)	<25	--	<0.62	--	--	--
2,2-Dichloropropane	(ug/L)	<25	--	<0.99	--	--	--
1,1-Dichloropropene	(ug/L)	<25	--	<0.79	--	--	--
cis-1,3-Dichloropropene	(ug/L)	<25	--	<0.57	--	--	--
trans-1,3-Dichloropropene	(ug/L)	<25	--	<0.64	--	--	--
Di-isopropyl ether	(ug/L)	<25	--	<0.60	--	--	--
Ethylbenzene	(ug/L)	630	41	120	110	700	140
Fluorotrichloromethane	(ug/L)	<25	--	<0.85	--	--	--
Hexachlorobutadiene	(ug/L)	<25	--	<0.95	--	--	--
Isopropylbenzene	(ug/L)	<25	--	4.5	--	--	--
p-Isopropyltoluene	(ug/L)	<25	--	<0.58	--	--	--
Methylene Chloride	(ug/L)	<25	--	<0.47	--	5	0.5
Methyl tert-butyl ether	(ug/L)	<25	<5	<0.87	2.6	60	12
Naphthalene	(ug/L)	<25	--	14	13	40	8
n-Propylbenzene	(ug/L)	<25	--	13	--	--	--
Styrene	(ug/L)	<25	--	<0.62	--	--	--
1,1,2,2-Tetrachloroethane	(ug/L)	<25	--	<0.77	--	0.2	0.02
1,1,1,2-Tetrachloroethane	(ug/L)	<25	--	<0.95	--	--	--
Tetrachloroethene	(ug/L)	<25	--	<0.63	--	5	0.5
Toluene	(ug/L)	1700	72	97	120	1000	200
1,2,3-Trichlorobenzene	(ug/L)	<25	--	<0.77	--	--	--
1,2,4-Trichlorobenzene	(ug/L)	<25	--	<0.57	--	70	14
1,1,1-Trichloroethane	(ug/L)	<25	--	<0.65	--	200	40
1,1,2-Trichloroethane	(ug/L)	<25	--	<0.50	--	5	0.5
Total Trimethylbenzene	(ug/L)	580	53	155	127	480	96
Trichloroethene	(ug/L)	<25	--	<0.39	--	5	0.5
1,2,3-Trichloropropane	(ug/L)	<25	--	<0.92	--	--	--
Vinyl Chloride	(ug/L)	<25	--	<0.11	--	0.2	0.02
Xylenes	(ug/L)	2890	130	440	460	10,000	1000
Lead	(mg/l)	<0.002	<0.005	--	--	0.015	0.0015
Acenaphthene	(ug/l)	--	--	<0.90	--	--	--
Acenaphthylene	(ug/l)	--	--	<0.95	--	--	--
Anthracene	(ug/l)	--	--	<1.0	--	3000	600
Benzo(a)anthracene	(ug/l)	--	--	<0.60	--	--	--
Benzo(a)pyrene	(ug/l)	--	--	<0.70	--	0.2	0.02
Benzo(b)fluoranthene	(ug/l)	--	--	<0.65	--	0.2	0.02
Benzo(ghi)perylene	(ug/l)	--	--	<0.80	--	--	--
Benzo(k)fluoranthene	(ug/l)	--	--	<0.95	--	--	--
Indeno(1,2,3-cd)pyrene	(ug/l)	--	--	<1.1	--	--	--
Chrysene	(ug/l)	--	--	<0.70	--	--	--
Dibenzo(a,h)anthracene	(ug/l)	--	--	<0.80	--	--	--
Fluoranthene	(ug/l)	--	--	<0.65	--	400	80
Fluorene	(ug/l)	--	--	<0.85	--	400	80
2-Methyl Naphthalene	(ug/l)	--	--	7.6	--	--	--
1-Methyl Naphthalene	(ug/l)	--	--	3.9	--	--	--
Naphthalene	(ug/l)	--	--	17	--	40	8
Phenanthrene	(ug/l)	--	--	<0.80	--	--	--
Pyrene	(ug/l)	--	--	<0.85	--	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 ug/L = micrograms per liter
 (1) = Elevation based on STS 11/21/02 survey
 (2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 5
 Groundwater Analytical Results
 Monitoring Well FTC-27
 Tyco Safety Products - Ansel
 Fire Technology Center
 Marinette, Wisconsin

FTC-27							
Ground Surface Elevation (MSL) = 610.5 (1)							
Top of Screen Elevation (MSL) = 607.5 (2)							
Bottom of Screen Elevation (MSL) = 597.5 (2)							
Sample Date	4/20/95	5/1/96	11/21/02	5/6/03	ES (ug/L)	PAL (ug/L)	
Groundwater Elevation (MSL)			605.79	607.00			
Benzene	(ug/L)	6800	4600	2900	4400	5	0.5
Bromobenzene	(ug/L)	--	--	<15	--	--	--
Bromochloromethane	(ug/L)	--	--	<13	--	--	--
Bromodichloromethane	(ug/L)	--	--	<4.6	--	0.6	0.06
Bromoform	(ug/L)	--	--	<9.0	--	--	--
Bromomethane	(ug/L)	--	--	<17	--	--	--
sec-Butylbenzene	(ug/L)	--	--	<12	--	--	--
tert-Butylbenzene	(ug/L)	--	--	<19	--	--	--
n-Butylbenzene	(ug/L)	--	--	<13	--	--	--
Carbon Tetrachloride	(ug/L)	--	--	<9.4	--	5	0.5
Chloroform	(ug/L)	--	--	<9.0	--	6	0.6
Chlorobenzene	(ug/L)	--	--	<12	--	--	--
Chlorodibromomethane	(ug/L)	--	--	<17	--	--	--
Chloroethane	(ug/L)	--	--	<17	--	400	80
Chloromethane	(ug/L)	--	--	<5.4	--	3	0.3
2-Chlorotoluene	(ug/L)	--	--	<13	--	--	--
4-Chlorotoluene	(ug/L)	--	--	<18	--	--	--
1,2-Dibromo-3-Chloropropane	(ug/L)	--	--	<18	--	0.2	0.02
1,2-Dibromoethane	(ug/L)	--	--	<13	--	--	--
Dibromomethane	(ug/L)	--	--	<15	--	--	--
1,3-Dichlorobenzene	(ug/L)	--	--	<12	--	1250	125
1,4-Dichlorobenzene	(ug/L)	--	--	<13	--	75	15
1,2-Dichloroethane	(ug/L)	--	--	<11	--	5	0.5
1,2-Dichlorobenzene	(ug/L)	--	--	<14	--	600	60
1,1-Dichloroethene	(ug/L)	--	--	<11	--	7	0.7
cis 1,2-Dichloroethene	(ug/L)	--	--	<16	--	--	--
Dichlorodifluoromethane	(ug/L)	--	--	<11	--	1000	200
trans 1,2-Dichloroethene	(ug/L)	--	--	<16	--	--	--
1,2-Dichloropropane	(ug/L)	--	--	<7.8	--	0.2	0.02
1,1-Dichloroethane	(ug/L)	--	--	<17	--	850	85
1,3-Dichloropropane	(ug/L)	--	--	<12	--	--	--
2,2-Dichloropropane	(ug/L)	--	--	<20	--	--	--
1,1-Dichloropropene	(ug/L)	--	--	<16	--	--	--
cis-1,3-Dichloropropene	(ug/L)	--	--	<11	--	--	--
trans-1,3-Dichloropropene	(ug/L)	--	--	<13	--	--	--
Di-isopropyl ether	(ug/L)	--	--	<12	--	--	--
Ethylbenzene	(ug/L)	920	720	370	750	700	140
Fluorotrichloromethane	(ug/L)	--	--	<17	--	--	--
Hexachlorobutadiene	(ug/L)	--	--	<19	--	--	--
Isopropylbenzene	(ug/L)	--	--	<13	--	--	--
p-Isopropyltoluene	(ug/L)	--	--	<12	--	5	--
Methylene Chloride	(ug/L)	--	--	<9.4	--	5	0.5
Methyl tert-butyl ether	(ug/L)	2100	880	82	110	60	12
Naphthalene	(ug/L)	--	--	61	170	40	8
n-Propylbenzene	(ug/L)	--	--	<19	--	--	--
Styrene	(ug/L)	--	--	<12	--	--	--
1,1,2,2-Tetrachloroethane	(ug/L)	--	--	<15	--	0.2	0.02
1,1,1,2-Tetrachloroethane	(ug/L)	--	--	<19	--	--	--
Tetrachloroethene	(ug/L)	--	--	<13	--	5	0.5
Toluene	(ug/L)	2000	2100	1500	1500	1000	200
1,2,3-Trichlorobenzene	(ug/L)	--	--	<15	--	--	--
1,2,4-Trichlorobenzene	(ug/L)	--	--	<11	--	70	14
1,1,1-Trichloroethane	(ug/L)	--	--	<13	--	200	40
1,1,2-Trichloroethane	(ug/L)	--	--	<10	--	5	0.5
Total Trimethylbenzene	(ug/L)	650	415	74	580	480	96
Trichloroethene	(ug/L)	--	--	<7.8	--	5	0.5
1,2,3-Trichloropropane	(ug/L)	--	--	<18	--	--	--
Vinyl Chloride	(ug/L)	--	--	<2.2	--	0.2	0.02
Xylenes	(ug/L)	1700	2,000	650	1960	10,000	1000
Lead	(mg/l)	0.009	<0.005	--	--	0.015	0.0015
Acenaphthene	(ug/l)	--	--	<0.36	--	--	--
Acenaphthylene	(ug/l)	--	--	<0.38	--	--	--
Anthracene	(ug/l)	--	--	<0.40	--	3000	600
Benzo(a)anthracene	(ug/l)	--	--	<0.24	--	--	--
Benzo(a)Pyrene	(ug/l)	--	--	<0.28	--	0.2	0.02
Benzo(b)Fluoranthene	(ug/l)	--	--	<0.26	--	0.2	0.02
Benzo(ghi)Perylene	(ug/l)	--	--	<0.32	--	--	--
Benzo(k)fluoranthene	(ug/l)	--	--	<0.38	--	--	--
Indeno(1,2,3-cd)pyrene	(ug/l)	--	--	<0.42	--	--	--
Chrysene	(ug/l)	--	--	<0.28	--	--	--
Dibenzo(a,h)Anthracene	(ug/l)	--	--	<0.32	--	--	--
Fluoranthene	(ug/l)	--	--	<0.26	--	400	80
Fluorene	(ug/l)	--	--	<0.34	--	400	80
2-Methyl Naphthalene	(ug/l)	--	--	11	--	--	--
1-Methyl Naphthalene	(ug/l)	--	--	7.6	--	--	--
Naphthalene	(ug/l)	--	--	55	--	40	8
Phenanthrene	(ug/l)	--	--	<0.32	--	--	--
Pyrene	(ug/l)	--	--	<0.34	--	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 ug/L = micrograms per liter
 (1) = Elevation based on STS 11/21/02 survey
 (2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 6
 Groundwater Analytical Results
 Monitoring Well FTC-28
 Tyco Safety Products - Ansul
 Fire Technology Center
 Marinette, Wisconsin

FTC-28

Ground Surface Elevation (MSL) = 610.3 (1) Top of Screen Elevation (MSL) = 607.3 (2) Bottom of Screen Elevation (MSL) = 597.3 (2)						
	Sample Date	4/20/95	5/1/96	5/6/03	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)				606.86		
Benzene	(ug/L)	810	970	--	5	0.5
Bromobenzene	(ug/L)	--	--	--	--	--
Bromochloromethane	(ug/L)	--	--	--	0.6	0.06
Bromodichloromethane	(ug/L)	--	--	--	--	--
Bromoform	(ug/L)	--	--	--	--	--
Bromomethane	(ug/L)	--	--	--	--	--
sec-Butylbenzene	(ug/L)	--	--	--	--	--
tert-Butylbenzene	(ug/L)	--	--	--	--	--
n-Butylbenzene	(ug/L)	--	--	--	--	--
Carbon Tetrachloride	(ug/L)	--	--	--	5	0.5
Chloroform	(ug/L)	--	--	--	6	0.6
Chlorobenzene	(ug/L)	--	--	--	--	--
Chlorodibromomethane	(ug/L)	--	--	--	--	--
Chloroethane	(ug/L)	--	--	--	400	80
Chloromethane	(ug/L)	--	--	--	3	0.3
2-Chlorotoluene	(ug/L)	--	--	--	--	--
4-Chlorotoluene	(ug/L)	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	(ug/L)	--	--	--	0.2	0.02
1,2-Dibromoethane	(ug/L)	--	--	--	--	--
Dibromomethane	(ug/L)	--	--	--	--	--
1,3-Dichlorobenzene	(ug/L)	--	--	--	1250	125
1,4-Dichlorobenzene	(ug/L)	--	--	--	75	15
1,2-Dichloroethane	(ug/L)	--	--	--	5	0.5
1,2-Dichlorobenzene	(ug/L)	--	--	--	600	60
1,1-Dichloroethene	(ug/L)	--	--	--	7	0.7
cis 1,2-Dichloroethene	(ug/L)	--	--	--	--	--
Dichlorodifluoromethane	(ug/L)	--	--	--	1000	200
trans 1,2-Dichloroethene	(ug/L)	--	--	--	--	--
1,2-Dichloropropane	(ug/L)	--	--	--	0.2	0.02
1,1-Dichloroethane	(ug/L)	--	--	--	850	85
1,3-Dichloropropane	(ug/L)	--	--	--	--	--
2,2-Dichloropropane	(ug/L)	--	--	--	--	--
1,1-Dichloropropene	(ug/L)	--	--	--	--	--
cis-1,3-Dichloropropene	(ug/L)	--	--	--	--	--
trans-1,3-Dichloropropene	(ug/L)	--	--	--	--	--
Di-isopropyl ether	(ug/L)	--	--	--	--	--
Ethylbenzene	(ug/L)	410	<100	--	700	140
Fluorotrichloromethane	(ug/L)	--	--	--	--	--
Hexachlorobutadiene	(ug/L)	--	--	--	--	--
Isopropylbenzene	(ug/L)	--	--	--	--	--
p-Isopropyltoluene	(ug/L)	--	--	--	5	0.5
Methylene Chloride	(ug/L)	--	--	--	60	12
Methyl tert-butyl ether	(ug/L)	<100	<100	--	40	8
Naphthalene	(ug/L)	--	--	--	--	--
n-Propylbenzene	(ug/L)	--	--	--	--	--
Styrene	(ug/L)	--	--	--	--	--
1,1,1,2-Tetrachloroethane	(ug/L)	--	--	--	0.2	0.02
1,1,1,2-Tetrachloroethane	(ug/L)	--	--	--	--	--
Tetrachloroethene	(ug/L)	--	--	--	5	0.5
Toluene	(ug/L)	1300	940	--	1000	200
1,2,3-Trichlorobenzene	(ug/L)	--	--	--	--	--
1,2,4-Trichlorobenzene	(ug/L)	--	--	--	70	14
1,1,1-Trichloroethane	(ug/L)	--	--	--	200	40
1,1,2-Trichloroethane	(ug/L)	--	--	--	5	0.5
Total Trimethylbenzene	(ug/L)	3870	280	--	480	96
Trichloroethene	(ug/L)	--	--	--	5	0.5
1,2,3-Trichloropropane	(ug/L)	--	--	--	--	--
Vinyl Chloride	(ug/L)	--	--	--	0.2	0.02
Xylenes	(ug/L)	1,600	540	--	10,000	1000
Lead	(mg/l)	0.005	<0.005	0.022	0.015	0.0015
Acenaphthene	(ug/l)	--	--	<9.0	--	--
Acenaphthylene	(ug/l)	--	--	<9.5	--	--
Anthracene	(ug/l)	--	--	<10	3000	600
Benzo(a)anthracene	(ug/l)	--	--	<6.0	--	--
Benzo(a)Pyrene	(ug/l)	--	--	<7.0	0.2	0.02
Benzo(b)Fluoranthene	(ug/l)	--	--	<6.5	0.2	0.02
Benzo(ghi)Perylene	(ug/l)	--	--	<8.0	--	--
Benzo(k)fluoranthene	(ug/l)	--	--	<9.5	--	--
Indeno(1,2,3-cd)pyrene	(ug/l)	--	--	<10	--	--
Chrysene	(ug/l)	--	--	<7.0	--	--
Dibenzo(a,h)Anthracene	(ug/l)	--	--	<8.0	--	--
Fluoranthene	(ug/l)	--	--	<6.5	400	80
Fluorene	(ug/l)	--	--	8.9	400	80
2-Methyl Naphthalene	(ug/l)	--	--	240	--	--
1-Methyl Naphthalene	(ug/l)	--	--	170	--	--
Naphthalene	(ug/l)	--	--	180	40	8
Phenanthrene	(ug/l)	--	--	21	--	--
Pyrene	(ug/l)	--	--	<8.5	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 ug/L = micrograms per liter
 (1) = Elevation based on STS 11/21/02 survey
 (2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 7
 Groundwater Analytical Results
 Monitoring Well FTC- 29
 Tyco Safety Products - Ansil
 Fire Technology Center
 Marinette, Wisconsin

FTC-29						
Ground Surface Elevation (MSL) =		609.6	(1)			
Top of Screen Elevation (MSL) =		606.6	(2)			
Bottom of Screen Elevation (MSL) =		596.6	(2)			
	Sample Date	4/20/95	5/1/96	11/21/02	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)				605.54		
Benzene	(µg/L)	<1	<0.5	<0.25	5	0.5
Bromobenzene	(µg/L)	--	--	<0.74	--	--
Bromochloromethane	(µg/L)	--	--	<0.67	--	--
Bromodichloromethane	(µg/L)	--	--	<0.23	0.6	0.06
Bromoform	(µg/L)	--	--	<0.45	--	--
Bromomethane	(µg/L)	--	--	<0.87	--	--
sec-Butylbenzene	(µg/L)	--	--	<0.62	--	--
tert-Butylbenzene	(µg/L)	--	--	<0.96	--	--
n-Butylbenzene	(µg/L)	--	--	<0.65	--	--
Carbon Tetrachloride	(µg/L)	--	--	<0.47	5	0.5
Chloroform	(µg/L)	--	--	<0.45	6	0.6
Chlorobenzene	(µg/L)	--	--	<0.58	--	--
Chlorodibromomethane	(µg/L)	--	--	<0.84	--	--
Chloroethane	(µg/L)	--	--	<0.84	400	80
Chloromethane	(µg/L)	--	--	<0.27	3	0.3
2-Chlorotoluene	(µg/L)	--	--	<0.66	--	--
4-Chlorotoluene	(µg/L)	--	--	<0.89	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	--	--	<0.88	0.2	0.02
1,2-Dibromoethane	(µg/L)	--	--	<0.66	--	--
Dibromomethane	(µg/L)	--	--	<0.74	--	--
1,3-Dichlorobenzene	(µg/L)	--	--	<0.58	1250	125
1,4-Dichlorobenzene	(µg/L)	--	--	<0.63	75	15
1,2-Dichloroethane	(µg/L)	--	--	<0.55	5	0.5
1,2-Dichlorobenzene	(µg/L)	--	--	<0.71	600	60
1,1-Dichloroethene	(µg/L)	--	--	<0.56	7	0.7
cis-1,2-Dichloroethene	(µg/L)	--	--	<0.81	--	--
Dichlorodifluoromethane	(µg/L)	--	--	<0.57	1000	200
trans-1,2-Dichloroethene	(µg/L)	--	--	<0.80	--	--
1,2-Dichloropropane	(µg/L)	--	--	<0.39	0.2	0.02
1,1-Dichloroethane	(µg/L)	--	--	<0.87	850	85
1,3-Dichloropropane	(µg/L)	--	--	<0.62	--	--
2,2-Dichloropropane	(µg/L)	--	--	<0.99	--	--
1,1-Dichloropropene	(µg/L)	--	--	<0.79	--	--
cis-1,3-Dichloropropene	(µg/L)	--	--	<0.57	--	--
trans-1,3-Dichloropropene	(µg/L)	--	--	<0.64	--	--
Di-isopropyl ether	(µg/L)	--	--	<0.60	--	--
Ethylbenzene	(µg/L)	<1	<1	<0.53	700	140
Fluorotrichloromethane	(µg/L)	--	--	<0.85	--	--
Hexachlorobutadiene	(µg/L)	--	--	<0.95	--	--
Isopropylbenzene	(µg/L)	--	--	<0.66	--	--
p-Isopropyltoluene	(µg/L)	--	--	<0.58	--	--
Methylene Chloride	(µg/L)	--	--	0.99 ^c	5	0.5
Methyl tert-butyl ether	(µg/L)	<1	<1	<0.87	60	12
Naphthalene	(µg/L)	--	--	<0.63	40	8
n-Propylbenzene	(µg/L)	--	--	<0.95	--	--
Styrene	(µg/L)	--	--	<0.62	--	--
1,1,2,2-Tetrachloroethane	(µg/L)	--	--	<0.77	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	--	--	<0.95	--	--
Tetrachloroethene	(µg/L)	--	--	<0.63	5	0.5
Toluene	(µg/L)	<1	<1	<0.84	1000	200
1,2,3-Trichlorobenzene	(µg/L)	--	--	<0.77	--	--
1,2,4-Trichlorobenzene	(µg/L)	--	--	<0.57	70	14
1,1,1-Trichloroethane	(µg/L)	--	--	<0.65	200	40
1,1,2-Trichloroethane	(µg/L)	--	--	<0.50	5	0.5
Total Trimethylbenzene	(µg/L)	<2	<2	<1.33	480	96
Trichloroethene	(µg/L)	--	--	<0.39	5	0.5
1,2,3-Trichloropropane	(µg/L)	--	--	<0.92	--	--
Vinyl Chloride	(µg/L)	--	--	<0.11	0.2	0.02
Xylenes	(µg/L)	<3	<3	<1.83	10,000	1000
Lead	(mg/l)	--	<0.005	--	0.015	0.0015
Acenaphthene	(µg/l)	--	--	<0.018	--	--
Acenaphthylene	(µg/l)	--	--	<0.019	--	--
Anthracene	(µg/l)	--	--	<0.020	3000	600
Benzo(a)anthracene	(µg/l)	--	--	<0.012	--	--
Benzo(a)Pyrene	(µg/l)	--	--	<0.014	0.2	0.02
Benzo(b)Fluoranthene	(µg/l)	--	--	<0.013	0.2	0.02
Benzo(ghi)Perylene	(µg/l)	--	--	<0.016	--	--
Benzo(k)Fluoranthene	(µg/l)	--	--	<0.019	--	--
Indeno(1,2,3-cd)pyrene	(µg/l)	--	--	<0.021	--	--
Chrysene	(µg/l)	--	--	<0.014	--	--
Dibenzo(a,h)Anthracene	(µg/l)	--	--	<0.016	--	--
Fluoranthene	(µg/l)	--	--	<0.013	400	80
Fluorene	(µg/l)	--	--	<0.017	400	80
2-Methyl Naphthalene	(µg/l)	--	--	<0.017	--	--
1-Methyl Naphthalene	(µg/l)	--	--	<0.017	--	--
Naphthalene	(µg/l)	--	--	<0.024	40	8
Phenanthrene	(µg/l)	--	--	<0.016	--	--
Pyrene	(µg/l)	--	--	<0.017	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 µg/L = micrograms per liter
 (1) = Elevation based on STS 11/21/02 survey
 (2) Screen interval data based on Dames & Moore #id-1990s report

Table 3 p 8
Groundwater Analytical Results
Monitoring Well FTC-30
Tyco Safety Products - Ansul
Fire Technology Center
Marinette, Wisconsin

FTC-30							
Ground Surface Elevation (MSL) = 610.1 (1)							
Top of Screen Elevation (MSL) = 607.1 (2)							
Bottom of Screen Elevation (MSL) = 597.1 (2)							
Sample Date	4/20/95	5/1/96	11/21/02	5/6/03	ES (ug/L)	PAL (ug/L)	
Groundwater Elevation (MSL)			606.10	606.90			
Benzene	(ug/L)	180	390	650	360	5	0.5
Bromobenzene	(ug/L)	--	--	<74	--	--	--
Bromochloromethane	(ug/L)	--	--	<67	--	--	--
Bromodichloromethane	(ug/L)	--	--	<23	--	0.6	0.06
Bromoform	(ug/L)	--	--	<45	--	--	--
Bromomethane	(ug/L)	--	--	<87	--	--	--
sec-Butylbenzene	(ug/L)	--	--	<62	--	--	--
tert-Butylbenzene	(ug/L)	--	--	<96	--	--	--
n-Butylbenzene	(ug/L)	--	--	<65	--	--	--
Carbon Tetrachloride	(ug/L)	--	--	<47	--	5	0.5
Chloroform	(ug/L)	--	--	<45	--	6	0.6
Chlorobenzene	(ug/L)	--	--	<58	--	--	--
Chlorodibromomethane	(ug/L)	--	--	<84	--	--	--
Chloroethane	(ug/L)	--	--	<84	--	400	80
Chloromethane	(ug/L)	--	--	<27	--	3	0.3
2-Chlorotoluene	(ug/L)	--	--	<66	--	--	--
4-Chlorotoluene	(ug/L)	--	--	<89	--	--	--
1,2-Dibromo-3-Chloropropane	(ug/L)	--	--	<88	--	0.2	0.02
1,2-Dibromoethane	(ug/L)	--	--	<66	--	--	--
Dibromomethane	(ug/L)	--	--	<74	--	--	--
1,3-Dichlorobenzene	(ug/L)	--	--	<58	--	1250	125
1,4-Dichlorobenzene	(ug/L)	--	--	<63	--	75	15
1,2-Dichloroethane	(ug/L)	--	--	<55	--	5	0.5
1,2-Dichlorobenzene	(ug/L)	--	--	<71	--	600	60
1,1-Dichloroethene	(ug/L)	--	--	<56	--	7	0.7
cis-1,2-Dichloroethene	(ug/L)	--	--	<81	--	--	--
Dichlorodifluoromethane	(ug/L)	--	--	<57	--	1000	200
trans-1,2-Dichloroethene	(ug/L)	--	--	<80	--	--	--
1,2-Dichloropropane	(ug/L)	--	--	<39	--	0.2	0.02
1,1-Dichloroethane	(ug/L)	--	--	<87	--	850	85
1,3-Dichloropropane	(ug/L)	--	--	<62	--	--	--
2,2-Dichloropropane	(ug/L)	--	--	<99	--	--	--
1,1-Dichloropropene	(ug/L)	--	--	<79	--	--	--
cis-1,3-Dichloropropene	(ug/L)	--	--	<57	--	--	--
trans-1,3-Dichloropropene	(ug/L)	--	--	<64	--	--	--
Di-isopropyl ether	(ug/L)	--	--	<60	--	--	--
Ethylbenzene	(ug/L)	<100	81	110	71	700	140
Fluorotrichloromethane	(ug/L)	--	--	<85	--	--	--
Hexachlorobutadiene	(ug/L)	--	--	<95	--	--	--
Isopropylbenzene	(ug/L)	--	--	<66	--	--	--
p-Isopropyltoluene	(ug/L)	--	--	<58	--	--	--
Methylene Chloride	(ug/L)	--	--	<47	--	5	0.5
Methyl tert-butyl ether	(ug/L)	15000	7500	15000	12000	60	12
Naphthalene	(ug/L)	--	--	69	59	40	8
n-Propylbenzene	(ug/L)	--	--	<95	--	--	--
Styrene	(ug/L)	--	--	<62	--	--	--
1,1,2,2-Tetrachloroethane	(ug/L)	--	--	<77	--	0.2	0.02
1,1,1,2-Tetrachloroethane	(ug/L)	--	--	<95	--	--	--
Tetrachloroethene	(ug/L)	--	--	<63	--	5	0.5
Toluene	(ug/L)	1400	3800	2600	2000	1000	200
1,2,3-Trichlorobenzene	(ug/L)	--	--	<77	--	--	--
1,2,4-Trichlorobenzene	(ug/L)	--	--	<57	--	70	14
1,1,1-Trichloroethane	(ug/L)	--	--	<65	--	200	40
1,1,2-Trichloroethane	(ug/L)	--	--	<50	--	5	0.5
Total Trimethylbenzene	(ug/L)	140	267	130	163	480	96
Trichloroethene	(ug/L)	--	--	<39	--	5	0.5
1,2,3-Trichloropropane	(ug/L)	--	--	<92	--	--	--
Vinyl Chloride	(ug/L)	--	--	<11	--	0.2	0.02
Xylenes	(ug/L)	<300	860	750	580	10,000	1000
Lead	(mg/l)	0.002	<0.005	--	--	0.015	0.0015
Acenaphthene	(ug/l)	--	--	<4.5	--	--	--
Acenaphthylene	(ug/l)	--	--	<4.8	--	--	--
Anthracene	(ug/l)	--	--	<5.0	--	3000	600
Benzo(a)anthracene	(ug/l)	--	--	<3.0	--	--	--
Benzo(a)fluorene	(ug/l)	--	--	<3.5	--	0.2	0.02
Benzo(b)fluoranthene	(ug/l)	--	--	<3.2	--	0.2	0.02
Benzo(g,h)perylene	(ug/l)	--	--	<4.0	--	--	--
Benzo(k)fluoranthene	(ug/l)	--	--	<4.8	--	--	--
Indeno(1,2,3-cd)pyrene	(ug/l)	--	--	<5.2	--	--	--
Chrysene	(ug/l)	--	--	<3.5	--	--	--
Dibenzo(a,h)anthracene	(ug/l)	--	--	<4.0	--	--	--
Fluoranthene	(ug/l)	--	--	<3.2	--	400	80
Fluorene	(ug/l)	--	--	<4.2	--	400	80
2-Methyl Naphthalene	(ug/l)	--	--	35	--	--	--
1-Methyl Naphthalene	(ug/l)	--	--	20	--	--	--
Naphthalene	(ug/l)	--	--	69	--	40	8
Phenanthrene	(ug/l)	--	--	<4.0	--	--	--
Pyrene	(ug/l)	--	--	<4.2	--	250	50

Notes:
ES = NR 140 Enforcement Standard established March 2000
PAL = NR 140 Preventive Action Limit established March 2000
NR 140 ES Exceedance
ug/L = micrograms per liter
(1) = Elevation based on STS 11/21/02 survey
(2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 9
 Groundwater Analytical Results
 Monitoring Well FTC- 31
 Tyco Safety Products - Ansol
 Fire Technology Center
 Marinette, Wisconsin

FTC-31						
Ground Surface Elevation (MSL) =		610.8	(1)			
Top of Screen Elevation (MSL) =		607.8	(2)			
Bottom of Screen Elevation (MSL) =		597.8	(2)			
	Sample Date	4/20/95	5/1/96	11/21/02	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)				606.02		
Benzene	(µg/L)	<1	<0.5	<0.25	5	0.5
Bromobenzene	(µg/L)	--	--	<0.74	--	--
Bromochloromethane	(µg/L)	--	--	<0.67	--	--
Bromodichloromethane	(µg/L)	--	--	<0.23	0.6	0.06
Bromoforn	(µg/L)	--	--	<0.45	--	--
Bromomethane	(µg/L)	--	--	<0.87	--	--
sec-Butylbenzene	(µg/L)	--	--	<0.62	--	--
tert-Butylbenzene	(µg/L)	--	--	<0.96	--	--
n-Butylbenzene	(µg/L)	--	--	<0.65	--	--
Carbon Tetrachloride	(µg/L)	--	--	<0.47	5	0.5
Chloroform	(µg/L)	--	--	<0.45	6	0.6
Chlorobenzene	(µg/L)	--	--	<0.58	--	--
Chlorodibromomethane	(µg/L)	--	--	<0.84	--	--
Chloroethane	(µg/L)	--	--	<0.84	400	80
Chloromethane	(µg/L)	--	--	<0.27	3	0.3
2-Chlorotoluene	(µg/L)	--	--	<0.66	--	--
4-Chlorotoluene	(µg/L)	--	--	<0.89	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	--	--	<0.88	0.2	0.02
1,2-Dibromoethane	(µg/L)	--	--	<0.66	--	--
Dibromomethane	(µg/L)	--	--	<0.74	--	--
1,3-Dichlorobenzene	(µg/L)	--	--	<0.58	1250	125
1,4-Dichlorobenzene	(µg/L)	--	--	<0.63	75	15
1,2-Dichloroethane	(µg/L)	--	--	<0.55	5	0.5
1,2-Dichlorobenzene	(µg/L)	--	--	<0.71	600	60
1,1-Dichloroethene	(µg/L)	--	--	<0.56	7	0.7
cis 1,2-Dichloroethene	(µg/L)	--	--	<0.81	--	--
Dichlorodifluoromethane	(µg/L)	--	--	<0.57	1000	200
trans 1,2-Dichloroethene	(µg/L)	--	--	<0.80	--	--
1,2-Dichloropropane	(µg/L)	--	--	<0.39	0.2	0.02
1,1-Dichloroethane	(µg/L)	--	--	<0.87	850	85
1,3-Dichloropropane	(µg/L)	--	--	<0.62	--	--
2,2-Dichloropropane	(µg/L)	--	--	<0.99	--	--
1,1-Dichloropropene	(µg/L)	--	--	<0.79	--	--
cis-1,3-Dichloropropene	(µg/L)	--	--	<0.57	--	--
trans-1,3-Dichloropropene	(µg/L)	--	--	<0.64	--	--
Di-isopropyl ether	(µg/L)	--	--	<0.60	--	--
Ethylbenzene	(µg/L)	<1	<1	<0.53	700	140
Fluorotrichloromethane	(µg/L)	--	--	<0.85	--	--
Hexachlorobutadiene	(µg/L)	--	--	<0.95	--	--
Isopropylbenzene	(µg/L)	--	--	<0.66	--	--
p-Isopropyltoluene	(µg/L)	--	--	<0.58	--	--
Methylene Chloride	(µg/L)	--	--	0.87	5	0.5
Methyl tert-butyl ether	(µg/L)	<1	<1	<0.87	60	12
Naphthalene	(µg/L)	--	--	<0.63	40	8
n-Propylbenzene	(µg/L)	--	--	<0.95	--	--
Styrene	(µg/L)	--	--	<0.62	--	--
1,1,2,2-Tetrachloroethane	(µg/L)	--	--	<0.77	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	--	--	<0.95	--	--
Tetrachloroethene	(µg/L)	--	--	<0.63	5	0.5
Toluene	(µg/L)	<1	<1	<0.84	1000	200
1,2,3-Trichlorobenzene	(µg/L)	--	--	<0.77	--	--
1,2,4-Trichlorobenzene	(µg/L)	--	--	<0.57	70	14
1,1,1-Trichloroethane	(µg/L)	--	--	<0.65	200	40
1,1,2-Trichloroethane	(µg/L)	--	--	<0.50	5	0.5
Total Trimethylbenzene	(µg/L)	<2	<2	<1.33	480	96
Trichloroethene	(µg/L)	--	--	<0.39	5	0.5
1,2,3-Trichloropropane	(µg/L)	--	--	<0.92	--	--
Vinyl Chloride	(µg/L)	--	--	<0.11	0.2	0.02
Xylenes	(µg/L)	<3	<3	<1.83	10,000	1000
Lead	(mg/l)	<0.002	<0.005	--	0.015	0.0015
Acenaphthene	(µg/l)	--	--	<0.018	--	--
Acenaphthylene	(µg/l)	--	--	<0.019	--	--
Anthracene	(µg/l)	--	--	<0.020	3000	600
Benzo(a)anthracene	(µg/l)	--	--	<0.012	--	--
Benzo(a)Pyrene	(µg/l)	--	--	<0.014	0.2	0.02
Benzo(b)Fluoranthene	(µg/l)	--	--	<0.013	0.2	0.02
Benzo(ghi)Perylene	(µg/l)	--	--	<0.016	--	--
Benzo(k)fluoranthene	(µg/l)	--	--	<0.019	--	--
Indeno(1,2,3-cd)pyrene	(µg/l)	--	--	<0.021	--	--
Chrysene	(µg/l)	--	--	<0.014	--	--
Dibenzo(a,h)Anthracene	(µg/l)	--	--	<0.016	--	--
Fluoranthene	(µg/l)	--	--	<0.013	400	80
Fluorene	(µg/l)	--	--	<0.017	400	80
2-Methyl Naphthalene	(µg/l)	--	--	<0.017	--	--
1-Methyl Naphthalene	(µg/l)	--	--	<0.017	--	--
Naphthalene	(µg/l)	--	--	<0.024	40	8
Phenanthrene	(µg/l)	--	--	<0.016	--	--
Pyrene	(µg/l)	--	--	<0.017	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 µg/L = micrograms per liter
 (1) = Elevation based on STS 11/21/02 survey
 (2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 10
 Groundwater Analytical Results
 Monitoring Well FTC-32S
 Tyco Safety Products - Ansl
 Fire Technology Center
 Marinette, Wisconsin

FTC-32S						
Ground Surface Elevation (MSL) =		609.2	(1)			
Top of Screen Elevation (MSL) =		606.2	(2)			
Bottom of Screen Elevation (MSL) =		596.2	(2)			
	Sample Date	5/1/96	11/21/02	5/6/03	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)		1200	605.52	607.11		
Benzene	(ug/L)	1200	1900	110	5	0.5
Bromobenzene	(ug/L)	--	<7.4	--	--	--
Bromochloromethane	(ug/L)	--	<6.7	--	--	--
Bromodichloromethane	(ug/L)	--	<2.3	--	0.6	0.06
Bromoform	(ug/L)	--	<4.5	--	--	--
Bromomethane	(ug/L)	--	<8.7	--	--	--
sec-Butylbenzene	(ug/L)	--	<6.2	--	--	--
tert-Butylbenzene	(ug/L)	--	<9.6	--	--	--
n-Butylbenzene	(ug/L)	--	<6.5	--	--	--
Carbon Tetrachloride	(ug/L)	--	<4.7	--	5	0.5
Chloroform	(ug/L)	--	<4.5	--	6	0.6
Chlorobenzene	(ug/L)	--	<5.8	--	--	--
Chlorodibromomethane	(ug/L)	--	<8.4	--	--	--
Chloroethane	(ug/L)	--	<8.4	--	400	80
Chloromethane	(ug/L)	--	<2.7	--	3	0.3
2-Chlorotoluene	(ug/L)	--	<6.6	--	--	--
4-Chlorotoluene	(ug/L)	--	<8.9	--	--	--
1,2-Dibromo-3-Chloropropane	(ug/L)	--	<8.8	--	0.2	0.02
1,2-Dibromoethane	(ug/L)	--	<6.6	--	--	--
Dibromomethane	(ug/L)	--	<7.4	--	--	--
1,3-Dichlorobenzene	(ug/L)	--	<5.8	--	1250	125
1,4-Dichlorobenzene	(ug/L)	--	<6.3	--	75	15
1,2-Dichloroethane	(ug/L)	--	<5.5	--	5	0.5
1,2-Dichlorobenzene	(ug/L)	--	<7.1	--	600	60
1,1-Dichloroethene	(ug/L)	--	<5.6	--	7	0.7
cis 1,2-Dichloroethene	(ug/L)	--	<8.1	--	--	--
Dichlorodifluoromethane	(ug/L)	--	<5.7	--	1000	200
trans 1,2-Dichloroethene	(ug/L)	--	<8.0	--	--	--
1,2-Dichloropropane	(ug/L)	--	<3.9	--	0.2	0.02
1,1-Dichloroethane	(ug/L)	--	<8.7	--	850	85
1,3-Dichloropropane	(ug/L)	--	<6.2	--	--	--
2,2-Dichloropropane	(ug/L)	--	<9.9	--	--	--
1,1-Dichloropropene	(ug/L)	--	<7.9	--	--	--
cis-1,3-Dichloropropene	(ug/L)	--	<5.7	--	--	--
trans-1,3-Dichloropropene	(ug/L)	--	<6.4	--	--	--
Di-isopropyl ether	(ug/L)	--	<6.0	--	--	--
Ethylbenzene	(ug/L)	310	510	28	700	140
Fluorotrichloromethane	(ug/L)	--	<8.5	--	--	--
Hexachlorobutadiene	(ug/L)	--	<9.5	--	--	--
Isopropylbenzene	(ug/L)	--	14	--	--	--
p-Isopropyltoluene	(ug/L)	--	<5.8	--	--	--
Methylene Chloride	(ug/L)	--	<4.7	--	5	0.5
Methyl tert-butyl ether	(ug/L)	<50	560	34	60	12
Naphthalene	(ug/L)	--	260	18	40	8
n-Propylbenzene	(ug/L)	--	44	--	--	--
Styrene	(ug/L)	--	<6.2	--	--	--
1,1,2,2-Tetrachloroethane	(ug/L)	--	<7.7	--	0.2	0.02
1,1,1,2-Tetrachloroethane	(ug/L)	--	<9.5	--	--	--
Tetrachloroethene	(ug/L)	--	<6.3	--	5	0.5
Toluene	(ug/L)	1300	2100	120	1000	200
1,2,3-Trichlorobenzene	(ug/L)	--	<7.7	--	--	--
1,2,4-Trichlorobenzene	(ug/L)	--	<5.7	--	70	14
1,1,1-Trichloroethane	(ug/L)	--	<6.5	--	200	40
1,1,2-Trichloroethane	(ug/L)	--	<5.0	--	5	0.5
Total Trimethylbenzene	(ug/L)	291	489	29.2	480	96
Trichloroethene	(ug/L)	--	<3.9	--	5	0.5
1,2,3-Trichloropropane	(ug/L)	--	<9.2	--	--	--
Vinyl Chloride	(ug/L)	--	<1.1	--	0.2	0.02
Xylenes	(ug/L)	940	1,500	85	10,000	1000
Lead	(mg/l)	<0.005	--	--	0.015	0.0015
Acenaphthene	(ug/l)	--	2	--	--	--
Acenaphthylene	(ug/l)	--	0.85	--	--	--
Anthracene	(ug/l)	--	1.7	--	3000	600
Benzo(a)anthracene	(ug/l)	--	<0.31	--	--	--
Benzo(a)Pyrene	(ug/l)	--	<0.36	--	0.2	0.02
Benzo(b)Fluoranthene	(ug/l)	--	<0.33	--	0.2	0.02
Benzo(ghi)Perylene	(ug/l)	--	<0.41	--	--	--
Benzo(k)fluoranthene	(ug/l)	--	<0.49	--	--	--
Indeno(1,2,3-cd)pyrene	(ug/l)	--	<0.54	--	--	--
Chrysene	(ug/l)	--	<0.36	--	--	--
Dibenzo(a,h)Anthracene	(ug/l)	--	<0.41	--	--	--
Fluoranthene	(ug/l)	--	<0.33	--	400	80
Fluorene	(ug/l)	--	20	--	400	80
2-Methyl Naphthalene	(ug/l)	--	140	--	--	--
1-Methyl Naphthalene	(ug/l)	--	90	--	--	--
Naphthalene	(ug/l)	--	180	--	40	8
Phenanthrene	(ug/l)	--	6.1	--	--	--
Pyrene	(ug/l)	--	<0.44	--	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 ug/L = micrograms per liter
 (1) = Elevation based on STS 11/21/02 survey
 (2) = Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 10
Groundwater Analytical Results
Monitoring Well FTC-32S
Tyco Safety Products - Ansul
Fire Technology Center
Marinette, Wisconsin

FTC-32S						
Ground Surface Elevation (MSL) =		609.2 (1)				
Top of Screen Elevation (MSL) =		606.2 (2)				
Bottom of Screen Elevation (MSL) =		596.2 (2)				
	Sample Date	5/1/96	11/21/02	5/6/03	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)		1200	605.52	607.11		
Benzene	(ug/L)	--	1900	110	5	0.5
Bromobenzene	(ug/L)	--	<7.4	--	--	--
Bromochloromethane	(ug/L)	--	<6.7	--	--	--
Bromodichloromethane	(ug/L)	--	<2.3	--	0.6	0.06
Bromoform	(ug/L)	--	<4.5	--	--	--
Bromomethane	(ug/L)	--	<8.7	--	--	--
sec-Butylbenzene	(ug/L)	--	<6.2	--	--	--
tert-Butylbenzene	(ug/L)	--	<9.6	--	--	--
n-Butylbenzene	(ug/L)	--	<6.5	--	--	--
Carbon Tetrachloride	(ug/L)	--	<4.7	--	5	0.5
Chloroform	(ug/L)	--	<4.5	--	6	0.6
Chlorobenzene	(ug/L)	--	<5.8	--	--	--
Chlorodibromomethane	(ug/L)	--	<8.4	--	--	--
Chloroethane	(ug/L)	--	<8.4	--	400	80
Chloromethane	(ug/L)	--	<2.7	--	3	0.3
2-Chlorotoluene	(ug/L)	--	<6.6	--	--	--
4-Chlorotoluene	(ug/L)	--	<8.9	--	--	--
1,2-Dibromo-3-Chloropropane	(ug/L)	--	<8.8	--	0.2	0.02
1,2-Dibromoethane	(ug/L)	--	<6.6	--	--	--
Dibromomethane	(ug/L)	--	<7.4	--	--	--
1,3-Dichlorobenzene	(ug/L)	--	<5.8	--	1250	125
1,4-Dichlorobenzene	(ug/L)	--	<6.3	--	75	15
1,2-Dichloroethane	(ug/L)	--	<5.5	--	5	0.5
1,2-Dichlorobenzene	(ug/L)	--	<7.1	--	600	60
1,1-Dichloroethene	(ug/L)	--	<5.6	--	7	0.7
cis 1,2-Dichloroethene	(ug/L)	--	<8.1	--	--	--
Dichlorodifluoromethane	(ug/L)	--	<5.7	--	1000	200
trans 1,2-Dichloroethene	(ug/L)	--	<8.0	--	--	--
1,2-Dichloropropane	(ug/L)	--	<3.9	--	0.2	0.02
1,1-Dichloroethane	(ug/L)	--	<8.7	--	850	85
1,3-Dichloropropane	(ug/L)	--	<6.2	--	--	--
2,2-Dichloropropane	(ug/L)	--	<9.9	--	--	--
1,1-Dichloropropene	(ug/L)	--	<7.9	--	--	--
cis-1,3-Dichloropropene	(ug/L)	--	<5.7	--	--	--
trans-1,3-Dichloropropene	(ug/L)	--	<6.4	--	--	--
Di-isopropyl ether	(ug/L)	--	<6.0	--	--	--
Ethylbenzene	(ug/L)	310	510	28	700	140
Fluorotrichloromethane	(ug/L)	--	<8.5	--	--	--
Hexachlorobutadiene	(ug/L)	--	<9.5	--	--	--
Isopropylbenzene	(ug/L)	--	14	--	--	--
p-Isopropyltoluene	(ug/L)	--	<5.8	--	--	--
Methylene Chloride	(ug/L)	--	<4.7	--	5	0.5
Methyl tert-butyl ether	(ug/L)	<50	560	34	60	12
Naphthalene	(ug/L)	--	260	18	40	8
n-Propylbenzene	(ug/L)	--	44	--	--	--
Styrene	(ug/L)	--	<6.2	--	--	--
1,1,2,2-Tetrachloroethane	(ug/L)	--	<7.7	--	0.2	0.02
1,1,1,2-Tetrachloroethane	(ug/L)	--	<9.5	--	--	--
Tetrachloroethene	(ug/L)	--	<6.3	--	5	0.5
Toluene	(ug/L)	1300	2100	120	1000	200
1,2,3-Trichlorobenzene	(ug/L)	--	<7.7	--	--	--
1,2,4-Trichlorobenzene	(ug/L)	--	<5.7	--	70	14
1,1,1-Trichloroethane	(ug/L)	--	<6.5	--	200	40
1,1,2-Trichloroethane	(ug/L)	--	<5.0	--	5	0.5
Total Trimethylbenzene	(ug/L)	291	489	29.2	480	96
Trichloroethene	(ug/L)	--	<3.9	--	5	0.5
1,2,3-Trichloropropane	(ug/L)	--	<9.2	--	--	--
Vinyl Chloride	(ug/L)	--	<1.1	--	0.2	0.02
Xylenes	(ug/L)	940	1,500	85	10,000	1000
Lead	(mg/l)	<0.005	--	--	0.015	0.0015
Acenaphthene	(ug/l)	--	2	--	--	--
Acenaphthylene	(ug/l)	--	0.85	--	--	--
Anthracene	(ug/l)	--	1.7	--	3000	600
Benzo(a)anthracene	(ug/l)	--	<0.31	--	--	--
Benzo(a)Pyrene	(ug/l)	--	<0.36	--	0.2	0.02
Benzo(b)Fluoranthene	(ug/l)	--	<0.33	--	0.2	0.02
Benzo(ghi)Perylene	(ug/l)	--	<0.41	--	--	--
Benzo(k)fluoranthene	(ug/l)	--	<0.49	--	--	--
Indeno(1,2,3-cd)pyrene	(ug/l)	--	<0.54	--	--	--
Chrysene	(ug/l)	--	<0.36	--	--	--
Dibenzo(a,h)Anthracene	(ug/l)	--	<0.41	--	--	--
Fluoranthene	(ug/l)	--	<0.33	--	400	80
Fluorene	(ug/l)	--	20	--	400	80
2-Methyl Naphthalene	(ug/l)	--	140	--	--	--
1-Methyl Naphthalene	(ug/l)	--	90	--	--	--
Naphthalene	(ug/l)	--	180	--	40	8
Phenanthrene	(ug/l)	--	6.1	--	--	--
Pyrene	(ug/l)	--	<0.44	--	250	50

Notes:
ES = NR 140 Enforcement Standard established March 2000
PAL = NR 140 Preventive Action Limit established March 2000
NR 140 ES Exceedance
ug/L = micrograms per liter
(1) = Elevation based on STS 11/21/02 survey
(2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 12
Groundwater Analytical Results
Monitoring Well FTC-33S
Tyco Safety Products - Ansol
Fire Technology Center
Marinette, Wisconsin

FTC-33S						
Ground Surface Elevation (MSL) =		609.8	(1)			
Top of Screen Elevation (MSL) =		606.8	(2)			
Bottom of Screen Elevation (MSL) =		596.8	(2)			
	Sample Date	5/1/96	11/21/02	5/6/03	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)			606.08	607.91		
Benzene	(µg/L)	0.76	<5.0	<1.2	5	0.5
Bromobenzene	(µg/L)	--	<15	--	--	--
Bromochloromethane	(µg/L)	--	<13	--	--	--
Bromodichloromethane	(µg/L)	--	<4.6	--	0.6	0.06
Bromoform	(µg/L)	--	<9.0	--	--	--
Bromomethane	(µg/L)	--	<17	--	--	--
sec-Butylbenzene	(µg/L)	--	<12	--	--	--
tert-Butylbenzene	(µg/L)	--	<19	--	--	--
n-Butylbenzene	(µg/L)	--	<13	--	--	--
Carbon Tetrachloride	(µg/L)	--	<9.4	--	5	0.5
Chloroform	(µg/L)	--	<9.0	--	6	0.6
Chlorobenzene	(µg/L)	--	<12	--	--	--
Chlorodibromomethane	(µg/L)	--	<17	--	--	--
Chloroethane	(µg/L)	--	<17	--	400	80
Chloromethane	(µg/L)	--	<5.4	--	3	0.3
2-Chlorotoluene	(µg/L)	--	<13	--	--	--
4-Chlorotoluene	(µg/L)	--	<18	--	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	--	<18	--	0.2	0.02
1,2-Dibromoethane	(µg/L)	--	<13	--	--	--
Dibromomethane	(µg/L)	--	<15	--	--	--
1,3-Dichlorobenzene	(µg/L)	--	<12	--	1250	125
1,4-Dichlorobenzene	(µg/L)	--	<13	--	75	15
1,2-Dichloroethane	(µg/L)	--	<11	--	5	0.5
1,2-Dichlorobenzene	(µg/L)	--	<14	--	600	60
1,1-Dichloroethene	(µg/L)	--	<11	--	7	0.7
cis 1,2-Dichloroethene	(µg/L)	--	<16	--	--	--
Dichlorodifluoromethane	(µg/L)	--	<11	--	1000	200
trans 1,2-Dichloroethene	(µg/L)	--	<16	--	--	--
1,2-Dichloropropane	(µg/L)	--	<7.8	--	0.2	0.02
1,1-Dichloroethane	(µg/L)	--	<17	--	850	85
1,3-Dichloropropane	(µg/L)	--	<12	--	--	--
2,2-Dichloropropane	(µg/L)	--	<20	--	--	--
1,1-Dichloropropene	(µg/L)	--	<16	--	--	--
cis-1,3-Dichloropropene	(µg/L)	--	<11	--	--	--
trans-1,3-Dichloropropene	(µg/L)	--	<13	--	--	--
Di-isopropyl ether	(µg/L)	--	90	--	--	--
Ethylbenzene	(µg/L)	<1	<11	<2.4	700	140
Fluorotrichloromethane	(µg/L)	--	<17	--	--	--
Hexachlorobutadiene	(µg/L)	--	<19	--	--	--
Isopropylbenzene	(µg/L)	--	<13	--	--	--
p-Isopropyltoluene	(µg/L)	--	<12	--	--	--
Methylene Chloride	(µg/L)	--	<9.4	--	5	0.5
Methyl tert-butyl ether	(µg/L)	200	830	890	60	12
Naphthalene	(µg/L)	--	<13	--	40	8
n-Propylbenzene	(µg/L)	--	<19	--	--	--
Styrene	(µg/L)	--	<12	--	--	--
1,1,2,2-Tetrachloroethane	(µg/L)	--	<15	--	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	--	<19	--	--	--
Tetrachloroethene	(µg/L)	--	<13	--	5	0.5
Toluene	(µg/L)	<1	<17	<2.3	1000	200
1,2,3-Trichlorobenzene	(µg/L)	--	<15	--	--	--
1,2,4-Trichlorobenzene	(µg/L)	--	<11	--	70	14
1,1,1-Trichloroethane	(µg/L)	--	<13	--	200	40
1,1,2-Trichloroethane	(µg/L)	--	<10	--	5	0.5
Total Trimethylbenzene	(µg/L)	1.6	<27	<4.7	480	96
Trichloroethene	(µg/L)	--	<7.8	--	5	0.5
1,2,3-Trichloropropane	(µg/L)	--	<18	--	--	--
Vinyl Chloride	(µg/L)	--	<2.2	--	0.2	0.02
Xylenes	(µg/L)	<3	<37	<7.4	10,000	1000
Lead	(mg/l)	0.015	--	0.0086	0.015	0.0015
Acenaphthene	(µg/l)	--	<0.090	--	--	--
Acenaphthylene	(µg/l)	--	<0.095	--	--	--
Anthracene	(µg/l)	--	<0.100	--	3000	600
Benzo(a)anthracene	(µg/l)	--	<0.060	--	--	--
Benzo(a)Pyrene	(µg/l)	--	<0.070	--	0.2	0.02
Benzo(b)Fluoranthene	(µg/l)	--	<0.065	--	0.2	0.02
Benzo(ghi)Perylene	(µg/l)	--	<0.080	--	--	--
Benzo(k)fluoranthene	(µg/l)	--	<0.095	--	--	--
Indeno(1,2,3-cd)pyrene	(µg/l)	--	<0.10	--	--	--
Chrysene	(µg/l)	--	<0.070	--	--	--
Dibenzo(a,h)Anthracene	(µg/l)	--	<0.080	--	--	--
Fluoranthene	(µg/l)	--	<0.065	--	400	80
Fluorene	(µg/l)	--	<0.085	--	400	80
2-Methyl Naphthalene	(µg/l)	--	0.65	--	--	--
1-Methyl Naphthalene	(µg/l)	--	0.57	--	--	--
Naphthalene	(µg/l)	--	1.6	--	40	8
Phenanthrene	(µg/l)	--	<0.080	--	--	--
Pyrene	(µg/l)	--	<0.085	--	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 µg/L = micrograms per liter
 (1) = Elevation based on STS 11/21/02 survey
 (2) = Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 13
Groundwater Analytical Results
Monitoring Well ATFC-33D
Tyco Safety Products - Ansul
Fire Training School
Marinette, Wisconsin

ATFC-33D					
Ground Surface Elevation (MSL) =		609.8	(1)		
Top of Screen Elevation (MSL) =		581.8	(2)		
Bottom of Screen Elevation (MSL) =		576.8	(2)		
	Sample Date	5/1/96	11/21/02	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)			605.79		
Benzene	(µg/L)	0.63	<0.25	5	0.5
Bromobenzene	(µg/L)	--	<0.74	--	--
Bromochloromethane	(µg/L)	--	<0.67	--	--
Bromodichloromethane	(µg/L)	--	<0.23	0.6	0.06
Bromoform	(µg/L)	--	<0.45	--	--
Bromomethane	(µg/L)	--	<0.87	--	--
sec-Butylbenzene	(µg/L)	--	<0.62	--	--
tert-Butylbenzene	(µg/L)	--	<0.96	--	--
n-Butylbenzene	(µg/L)	--	<0.65	--	--
Carbon Tetrachloride	(µg/L)	--	<0.47	5	0.5
Chloroform	(µg/L)	--	<0.45	6	0.6
Chlorobenzene	(µg/L)	--	<0.58	--	--
Chlorodibromomethane	(µg/L)	--	<0.84	--	--
Chloroethane	(µg/L)	--	<0.84	400	80
Chloromethane	(µg/L)	--	<0.27	3	0.3
2-Chlorotoluene	(µg/L)	--	<0.66	--	--
4-Chlorotoluene	(µg/L)	--	<0.89	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	--	<0.88	0.2	0.02
1,2-Dibromoethane	(µg/L)	--	<0.66	--	--
Dibromomethane	(µg/L)	--	<0.74	--	--
1,3-Dichlorobenzene	(µg/L)	--	<0.58	1250	125
1,4-Dichlorobenzene	(µg/L)	--	<0.63	75	15
1,2-Dichloroethane	(µg/L)	--	<0.55	5	0.5
1,2-Dichlorobenzene	(µg/L)	--	<0.71	600	60
1,1-Dichloroethene	(µg/L)	--	<0.56	7	0.7
cis 1,2-Dichloroethene	(µg/L)	--	<0.81	--	--
Dichlorodifluoromethane	(µg/L)	--	<0.57	1000	200
trans 1,2-Dichloroethene	(µg/L)	--	<0.80	--	--
1,2-Dichloropropane	(µg/L)	--	<0.39	0.2	0.02
1,1-Dichloroethane	(µg/L)	--	<0.87	850	85
1,3-Dichloropropane	(µg/L)	--	<0.62	--	--
2,2-Dichloropropane	(µg/L)	--	<0.99	--	--
1,1-Dichloropropene	(µg/L)	--	<0.79	--	--
cis-1,3-Dichloropropene	(µg/L)	--	<0.57	--	--
trans-1,3-Dichloropropene	(µg/L)	--	<0.64	--	--
Di-isopropyl ether	(µg/L)	--	<0.60	--	--
Ethylbenzene	(µg/L)	<1	<0.53	700	140
Fluorotrichloromethane	(µg/L)	--	<0.85	--	--
Hexachlorobutadiene	(µg/L)	--	<0.95	--	--
Isopropylbenzene	(µg/L)	--	<0.66	--	--
p-Isopropyltoluene	(µg/L)	--	<0.58	--	--
Methylene Chloride	(µg/L)	--	<0.47	5	0.5
Methyl tert-butyl ether	(µg/L)	46	<0.87	60	12
Naphthalene	(µg/L)	--	<0.63	40	8
n-Propylbenzene	(µg/L)	--	<0.95	--	--
Styrene	(µg/L)	--	<0.62	--	--
1,1,2,2-Tetrachloroethane	(µg/L)	--	<0.77	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	--	<0.95	--	--
Tetrachloroethene	(µg/L)	--	<0.63	5	0.5
Toluene	(µg/L)	<1	<0.84	1000	200
1,2,3-Trichlorobenzene	(µg/L)	--	<0.77	--	--
1,2,4-Trichlorobenzene	(µg/L)	--	<0.57	70	14
1,1,1-Trichloroethane	(µg/L)	--	<0.65	200	40
1,1,2-Trichloroethane	(µg/L)	--	<0.50	5	0.5
Total Trimethylbenzene	(µg/L)	<2	<1.33	480	96
Trichloroethene	(µg/L)	--	<0.39	5	0.5
1,2,3-Trichloropropane	(µg/L)	--	<0.92	--	--
Vinyl Chloride	(µg/L)	--	<0.11	0.2	0.02
Xylenes	(µg/L)	<3	<1.83	10,000	1000
Lead	(mg/l)	<0.005	--	0.015	0.0015
Acenaphthene	(µg/l)	--	<0.018	--	--
Acenaphthylene	(µg/l)	--	<0.019	--	--
Anthracene	(µg/l)	--	<0.020	3000	600
Benzo(a)anthracene	(µg/l)	--	<0.012	--	--
Benzo(a)Pyrene	(µg/l)	--	<0.014	0.2	0.02
Benzo(b)Fluoranthene	(µg/l)	--	<0.013	0.2	0.02
Benzo(ghi)Perylene	(µg/l)	--	<0.016	--	--
Benzo(k)fluoranthene	(µg/l)	--	<0.019	--	--
Indeno(1,2,3-cd)pyrene	(µg/l)	--	<0.021	--	--
Chrysene	(µg/l)	--	<0.014	--	--
Dibenzo(a,h)Anthracene	(µg/l)	--	<0.016	--	--
Fluoranthene	(µg/l)	--	<0.013	400	80
Fluorene	(µg/l)	--	<0.017	400	80
2-Methyl Naphthalene	(µg/l)	--	<0.017	--	--
1-Methyl Naphthalene	(µg/l)	--	<0.017	--	--
Naphthalene	(µg/l)	--	<0.024	40	8
Phenanthrene	(µg/l)	--	<0.016	--	--
Pyrene	(µg/l)	--	<0.017	250	50

Notes:
ES = NR 140 Enforcement Standard established March 2000
PAL = NR 140 Preventive Action Limit established March 2000
NR 140 ES Exceedance
µg/L = micrograms per liter
(1) = Elevation based on STS 11/21/02 survey
(2) = Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 14
Groundwater Analytical Results
Monitoring Well FTC-34S
Tyco Safety Products - Ansul
Fire Technology Center
Marinette, Wisconsin

FTC-34S					
Ground Surface Elevation (MSL) =		609.2	(1)		
Top of Screen Elevation (MSL) =		606.2	(2)		
Bottom of Screen Elevation (MSL) =		596.2	(2)		
	Sample Date	5/1/96	11/21/02	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)			605.81		
Benzene	(µg/L)	<0.5	<0.25	5	0.5
Bromobenzene	(µg/L)	--	<0.74	--	--
Bromochloromethane	(µg/L)	--	<0.67	--	--
Bromodichloromethane	(µg/L)	--	<0.23	0.6	0.06
Bromoform	(µg/L)	--	<0.45	--	--
Bromomethane	(µg/L)	--	<0.87	--	--
sec-Butylbenzene	(µg/L)	--	<0.62	--	--
tert-Butylbenzene	(µg/L)	--	<0.96	--	--
n-Butylbenzene	(µg/L)	--	<0.65	--	--
Carbon Tetrachloride	(µg/L)	--	<0.47	5	0.5
Chloroform	(µg/L)	--	<0.45	6	0.6
Chlorobenzene	(µg/L)	--	<0.58	--	--
Chlorodibromomethane	(µg/L)	--	<0.84	--	--
Chloroethane	(µg/L)	--	<0.84	400	80
Chloromethane	(µg/L)	--	<0.27	3	0.3
2-Chlorotoluene	(µg/L)	--	<0.66	--	--
4-Chlorotoluene	(µg/L)	--	<0.89	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	--	<0.88	0.2	0.02
1,2-Dibromoethane	(µg/L)	--	<0.66	--	--
Dibromomethane	(µg/L)	--	<0.74	--	--
1,3-Dichlorobenzene	(µg/L)	--	<0.58	1250	125
1,4-Dichlorobenzene	(µg/L)	--	<0.63	75	15
1,2-Dichloroethane	(µg/L)	--	<0.55	5	0.5
1,2-Dichlorobenzene	(µg/L)	--	<0.71	600	60
1,1-Dichloroethene	(µg/L)	--	<0.56	7	0.7
cis 1,2-Dichloroethene	(µg/L)	--	<0.81	--	--
Dichlorodifluoromethane	(µg/L)	--	<0.57	1000	200
trans 1,2-Dichloroethene	(µg/L)	--	<0.80	--	--
1,2-Dichloropropane	(µg/L)	--	<0.39	0.2	0.02
1,1-Dichloroethane	(µg/L)	--	<0.87	850	85
1,3-Dichloropropane	(µg/L)	--	<0.62	--	--
2,2-Dichloropropane	(µg/L)	--	<0.99	--	--
1,1-Dichloropropene	(µg/L)	--	<0.79	--	--
cis-1,3-Dichloropropene	(µg/L)	--	<0.57	--	--
trans-1,3-Dichloropropene	(µg/L)	--	<0.64	--	--
Di-isopropyl ether	(µg/L)	--	<0.60	--	--
Ethylbenzene	(µg/L)	<1	<0.53	700	140
Fluorotrichloromethane	(µg/L)	--	<0.85	--	--
Hexachlorobutadiene	(µg/L)	--	<0.95	--	--
Isopropylbenzene	(µg/L)	--	<0.66	--	--
p-Isopropyltoluene	(µg/L)	--	<0.58	--	--
Methylene Chloride	(µg/L)	--	1.0	5	0.5
Methyl tert-butyl ether	(µg/L)	<1	<0.87	60	12
Naphthalene	(µg/L)	--	<0.63	40	8
n-Propylbenzene	(µg/L)	--	<0.95	--	--
Styrene	(µg/L)	--	<0.62	--	--
1,1,2,2-Tetrachloroethane	(µg/L)	--	<0.77	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	--	<0.95	--	--
Tetrachloroethene	(µg/L)	--	<0.63	5	0.5
Toluene	(µg/L)	<1	<0.84	1000	200
1,2,3-Trichlorobenzene	(µg/L)	--	<0.77	--	--
1,2,4-Trichlorobenzene	(µg/L)	--	<0.57	70	14
1,1,1-Trichloroethane	(µg/L)	--	<0.65	200	40
1,1,2-Trichloroethane	(µg/L)	--	<0.50	5	0.5
Total Trimethylbenzene	(µg/L)	<2	<1.33	480	96
Trichloroethene	(µg/L)	--	<0.39	5	0.5
1,2,3-Trichloropropane	(µg/L)	--	<0.92	--	--
Vinyl Chloride	(µg/L)	--	<0.11	0.2	0.02
Xylenes	(µg/L)	<3	<1.83	10,000	1000
Lead	(mg/l)	<0.005	--	0.015	0.0015
Acenaphthene	(µg/l)	--	<0.018	--	--
Acenaphthylene	(µg/l)	--	<0.019	--	--
Anthracene	(µg/l)	--	<0.020	3000	600
Benzo(a)anthracene	(µg/l)	--	<0.012	--	--
Benzo(a)Pyrene	(µg/l)	--	<0.014	0.2	0.02
Benzo(b)Fluoranthene	(µg/l)	--	<0.013	0.2	0.02
Benzo(ghi)Perylene	(µg/l)	--	<0.016	--	--
Benzo(k)fluoranthene	(µg/l)	--	<0.019	--	--
Indeno(1,2,3-cd)pyrene	(µg/l)	--	<0.021	--	--
Chrysene	(µg/l)	--	<0.014	--	--
Dibenzo(a,h)Anthracene	(µg/l)	--	<0.016	--	--
Fluoranthene	(µg/l)	--	<0.013	400	80
Fluorene	(µg/l)	--	<0.017	400	80
2-Methyl Naphthalene	(µg/l)	--	<0.017	--	--
1-Methyl Naphthalene	(µg/l)	--	<0.017	--	--
Naphthalene	(µg/l)	--	<0.024	40	8
Phenanthrene	(µg/l)	--	<0.016	--	--
Pyrene	(µg/l)	--	<0.017	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 µg/L = micrograms per liter
 (1) = Elevation based on STS 11/21/02 survey
 (2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 15
Groundwater Analytical Results
Monitoring Well FTC-34D
Tyco Safety Products - Ansul
Fire Technology Center
Marinette, Wisconsin

FTC-34D									
Ground Surface Elevation (MSL) =		609.2	(1)						
Top of Screen Elevation (MSL) =		581.2	(2)						
Bottom of Screen Elevation (MSL) =		576.2	(2)						
Sample Date	5/1/96	11/21/02	5/6/03	6/9/03	8/4/03	ES (ug/L)	PAL (ug/L)		
Groundwater Elevation (MSL)		605.56	607.07	606.79	605.87				
Benzene	(ug/L)	140	4	56	56	59	5	0.5	
Bromobenzene	(ug/L)	--	<7.4	<4.1	--	--	--	--	
Bromochloromethane	(ug/L)	--	<6.7	<4.8	--	--	--	--	
Bromodichloromethane	(ug/L)	--	<2.3	<2.8	--	--	0.6	0.06	
Bromoform	(ug/L)	--	<4.5	<4.7	--	--	--	--	
Bromomethane	(ug/L)	--	<8.7	<4.6	--	--	--	--	
sec-Butylbenzene	(ug/L)	--	<6.2	<4.4	--	--	--	--	
tert-Butylbenzene	(ug/L)	--	<9.6	<4.8	--	--	--	--	
n-Butylbenzene	(ug/L)	--	<6.5	<4.6	--	--	--	--	
Carbon Tetrachloride	(ug/L)	--	<4.7	<2.4	--	--	5	0.5	
Chloroform	(ug/L)	--	<4.5	<1.8	--	--	6	0.6	
Chlorobenzene	(ug/L)	--	<5.8	<2.0	--	--	--	--	
Chlorodibromomethane	(ug/L)	--	<8.4	<4.0	--	--	--	--	
Chloroethane	(ug/L)	--	<8.4	<4.8	--	--	400	80	
Chloromethane	(ug/L)	--	<2.7	<1.2	--	--	3	0.3	
2-Chlorotoluene	(ug/L)	--	<6.6	<4.2	--	--	--	--	
4-Chlorotoluene	(ug/L)	--	<8.9	<3.7	--	--	--	--	
1,2-Dibromo-3-Chloropropane	(ug/L)	--	<8.8	<4.4	--	--	0.2	0.02	
1,2-Dibromoethane	(ug/L)	--	<6.6	<2.8	--	--	--	--	
Dibromomethane	(ug/L)	--	<7.4	<3.0	--	--	--	--	
1,3-Dichlorobenzene	(ug/L)	--	<5.8	<4.4	--	--	1250	125	
1,4-Dichlorobenzene	(ug/L)	--	<6.3	<4.8	--	--	75	15	
1,2-Dichloroethane	(ug/L)	--	12	<1.8	--	--	5	0.5	
1,2-Dichlorobenzene	(ug/L)	--	<7.1	<4.2	--	--	600	60	
1,1-Dichloroethene	(ug/L)	--	<5.6	<2.8	--	--	7	0.7	
cis-1,2-Dichloroethene	(ug/L)	--	1100	<4.2	--	--	70	7	
Dichlorodifluoromethane	(ug/L)	--	7.9	<5.0	--	--	1000	200	
trans-1,2-Dichloroethene	(ug/L)	--	18	<4.4	--	--	--	--	
1,2-Dichloropropane	(ug/L)	--	<3.9	<2.3	--	--	0.2	0.02	
1,1-Dichloroethane	(ug/L)	--	<8.7	<3.8	--	--	850	85	
1,3-Dichloropropane	(ug/L)	--	<6.2	<3.0	--	--	--	--	
2,2-Dichloropropane	(ug/L)	--	<9.9	<3.1	--	--	--	--	
1,1-Dichloropropene	(ug/L)	--	<7.9	<3.8	--	--	--	--	
cis-1,3-Dichloropropene	(ug/L)	--	<5.7	<0.95	--	--	--	--	
trans-1,3-Dichloropropene	(ug/L)	--	<6.4	<0.95	--	--	--	--	
Di-isopropyl ether	(ug/L)	--	<6.0	<3.8	--	--	--	--	
Ethylbenzene	(ug/L)	52	<5.3	28	29	35	700	140	
Fluorotrichloromethane	(ug/L)	--	<8.5	<4.0	--	--	--	--	
Hexachlorobutadiene	(ug/L)	--	<9.5	<3.4	--	--	--	--	
Isopropylbenzene	(ug/L)	--	<6.6	<3.0	--	--	--	--	
p-Isopropyltoluene	(ug/L)	--	<5.8	<3.4	--	--	--	--	
Methylene Chloride	(ug/L)	--	11	<2.2	--	--	5	0.5	
Methyl tert-butyl ether	(ug/L)	<50	<8.7	680	820	490	60	12	
Naphthalene	(ug/L)	--	<6.3	17	--	--	40	8	
n-Propylbenzene	(ug/L)	--	<9.5	5.8	--	--	--	--	
Styrene	(ug/L)	--	<6.2	<4.3	--	--	--	--	
1,1,2,2-Tetrachloroethane	(ug/L)	--	<7.7	<1.0	--	--	0.2	0.02	
1,1,1,2-Tetrachloroethane	(ug/L)	--	<9.5	<4.6	--	--	--	--	
Tetrachloroethene	(ug/L)	--	110	<2.2	--	--	5	0.5	
Toluene	(ug/L)	<50	<8.4	<3.4	<1.4	<2.9	1000	200	
1,2,3-Trichlorobenzene	(ug/L)	--	<7.7	<3.7	--	--	--	--	
1,2,4-Trichlorobenzene	(ug/L)	--	<5.7	<4.8	--	--	70	14	
1,1,1-Trichloroethane	(ug/L)	--	<6.5	<4.5	--	--	200	40	
1,1,2-Trichloroethane	(ug/L)	--	<5.0	<2.1	--	--	5	0.5	
Total Trimethylbenzene	(ug/L)	61	<13.3	42	36.5	37	480	96	
Trichloroethene	(ug/L)	--	120	<2.4	--	--	5	0.5	
1,2,3-Trichloropropane	(ug/L)	--	<9.2	<5.0	--	--	--	--	
Vinyl Chloride	(ug/L)	--	110	<0.9	--	--	0.2	0.02	
Xylenes	(ug/L)	230	<18.3	64	51	64	10,000	1000	
Lead	(mg/l)	<0.005	--	NA	--	--	0.015	0.0015	
Acenaphthene	(ug/l)	--	<0.36	--	--	--	--	--	
Acenaphthylene	(ug/l)	--	<0.38	--	--	--	--	--	
Anthracene	(ug/l)	--	<0.40	--	--	--	3000	600	
Benzo(a)anthracene	(ug/l)	--	<0.24	--	--	--	--	--	
Benzo(a)Pyrene	(ug/l)	--	<0.28	--	--	--	0.2	0.02	
Benzo(b)Fluoranthene	(ug/l)	--	<0.26	--	--	--	0.2	0.02	
Benzo(ghi)Perylene	(ug/l)	--	<0.32	--	--	--	--	--	
Benzo(k)fluoranthene	(ug/l)	--	<0.38	--	--	--	--	--	
Indeno(1,2,3-cd)pyrene	(ug/l)	--	<0.42	--	--	--	--	--	
Chrysene	(ug/l)	--	<0.28	--	--	--	--	--	
Dibenz(a,h)Anthracene	(ug/l)	--	<0.32	--	--	--	--	--	
Fluoranthene	(ug/l)	--	<0.26	--	--	--	400	80	
Fluorene	(ug/l)	--	<0.34	--	--	--	400	80	
2-Methyl Naphthalene	(ug/l)	--	2.1	--	--	--	--	--	
1-Methyl Naphthalene	(ug/l)	--	2.9	--	--	--	--	--	
Naphthalene	(ug/l)	--	7.7	--	--	--	40	8	
Phenanthrene	(ug/l)	--	<0.32	--	--	--	--	--	
Pyrene	(ug/l)	--	<0.34	--	--	--	250	50	

Notes:
ES = NR 140 Enforcement Standard established March 2000
PAL = NR 140 Preventive Action Limit established March 2000
NR 140 ES Exceedance
ug/L = micrograms per liter
(1) = Elevation based on STS 11/21/02 survey
(2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 16
 Groundwater Analytical Results
 Monitoring Well FTC-35
 Tyco Safety Products - Arsul
 Fire Technology Center
 Marinette, Wisconsin

FTC-35				
Ground Surface Elevation (MSL) =		611	(1)	
Top of Screen Elevation (MSL) =		608	(2)	
Bottom of Screen Elevation (MSL) =		598	(2)	
	Sample Date	11/21/02	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)		606.12		
Benzene	(µg/L)	<0.25	5	0.5
Bromobenzene	(µg/L)	<0.74	--	--
Bromochloromethane	(µg/L)	<0.67	--	--
Bromodichloromethane	(µg/L)	<0.23	0.6	0.06
Bromoform	(µg/L)	<0.45	--	--
Bromomethane	(µg/L)	<0.87	--	--
sec-Butylbenzene	(µg/L)	<0.62	--	--
tert-Butylbenzene	(µg/L)	<0.96	--	--
n-Butylbenzene	(µg/L)	<0.65	--	--
Carbon Tetrachloride	(µg/L)	<0.47	5	0.5
Chloroform	(µg/L)	<0.45	6	0.6
Chlorobenzene	(µg/L)	<0.58	--	--
Chlorodibromomethane	(µg/L)	<0.84	--	--
Chloroethane	(µg/L)	<0.84	400	80
Chloromethane	(µg/L)	<0.27	3	0.3
2-Chlorotoluene	(µg/L)	<0.66	--	--
4-Chlorotoluene	(µg/L)	<0.89	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	<0.88	0.2	0.02
1,2-Dibromoethane	(µg/L)	<0.66	--	--
Dibromomethane	(µg/L)	<0.74	--	--
1,3-Dichlorobenzene	(µg/L)	<0.58	1250	125
1,4-Dichlorobenzene	(µg/L)	<0.63	75	15
1,2-Dichloroethane	(µg/L)	<0.55	5	0.5
1,2-Dichlorobenzene	(µg/L)	<0.71	600	60
1,1-Dichloroethene	(µg/L)	<0.56	7	0.7
cis 1,2-Dichloroethene	(µg/L)	<0.81	--	--
Dichlorodifluoromethane	(µg/L)	<0.57	1000	200
trans 1,2-Dichloroethene	(µg/L)	<0.80	--	--
1,2-Dichloropropane	(µg/L)	<0.39	0.2	0.02
1,1-Dichloroethane	(µg/L)	<0.87	850	85
1,3-Dichloropropane	(µg/L)	<0.62	--	--
2,2-Dichloropropane	(µg/L)	<0.99	--	--
1,1-Dichloropropene	(µg/L)	<0.79	--	--
cis-1,3-Dichloropropene	(µg/L)	<0.57	--	--
trans-1,3-Dichloropropene	(µg/L)	<0.64	--	--
Di-isopropyl ether	(µg/L)	<0.60	--	--
Ethylbenzene	(µg/L)	<0.53	700	140
Fluorotrichloromethane	(µg/L)	<0.85	--	--
Hexachlorobutadiene	(µg/L)	<0.95	--	--
Isopropylbenzene	(µg/L)	<0.66	--	--
p-Isopropyltoluene	(µg/L)	<0.58	--	--
Methylene Chloride	(µg/L)	0.95	5	0.5
Methyl tert-butyl ether	(µg/L)	<0.87	60	12
Naphthalene	(µg/L)	<0.63	40	8
n-Propylbenzene	(µg/L)	<0.95	--	--
Styrene	(µg/L)	<0.62	--	--
1,1,2,2-Tetrachloroethane	(µg/L)	<0.77	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	<0.95	--	--
Tetrachloroethene	(µg/L)	<0.63	5	0.5
Toluene	(µg/L)	<0.84	1000	200
1,2,3-Trichlorobenzene	(µg/L)	<0.77	--	--
1,2,4-Trichlorobenzene	(µg/L)	<0.57	70	14
1,1,1-Trichloroethane	(µg/L)	<0.65	200	40
1,1,2-Trichloroethane	(µg/L)	<0.50	5	0.5
Total Trimethylbenzene	(µg/L)	<1.33	480	96
Trichloroethene	(µg/L)	<0.39	5	0.5
1,2,3-Trichloropropane	(µg/L)	<0.92	--	--
Vinyl Chloride	(µg/L)	<0.11	0.2	0.02
Xylenes	(µg/L)	<1.83	10,000	1000
Lead	(mg/l)	--	0.015	0.0015
Acenaphthene	(µg/l)	<0.018	--	--
Acenaphthylene	(µg/l)	<0.019	--	--
Anthracene	(µg/l)	<0.020	3000	600
Benzo(a)anthracene	(µg/l)	<0.012	--	--
Benzo(a)Pyrene	(µg/l)	<0.014	0.2	0.02
Benzo(b)Fluoranthene	(µg/l)	<0.013	0.2	0.02
Benzo(ghi)Perylene	(µg/l)	<0.016	--	--
Benzo(k)fluoranthene	(µg/l)	<0.019	--	--
Indeno(1,2,3-cd)pyrene	(µg/l)	<0.021	--	--
Chrysene	(µg/l)	<0.014	--	--
Dibenzo(a,h)Anthracene	(µg/l)	<0.016	--	--
Fluoranthene	(µg/l)	<0.013	400	80
Fluorene	(µg/l)	<0.017	400	80
2-Methyl Naphthalene	(µg/l)	<0.017	--	--
1-Methyl Naphthalene	(µg/l)	<0.017	--	--
Naphthalene	(µg/l)	0.024	40	8
Phenanthrene	(µg/l)	<0.016	--	--
Pyrene	(µg/l)	<0.017	250	50

Notes:

ES = NR 140 Enforcement Standard established March 2000

PAL = NR 140 Preventive Action Limit established March 2000

NR 140 ES Exceedance

µg/L = micrograms per liter

(1) = Elevation based on STS 11/21/02 survey

(2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 17
 Groundwater Analytical Results
 Monitoring Well FTC- 42
 Tyco Safety Products - Ansul
 Fire Technology Center
 Marinette, Wisconsin

FTC-42			
Ground Surface Elevation (MSL) =		619	(1)
Top of Screen Elevation (MSL) =		605	(2)
Bottom of Screen Elevation (MSL) =		595	(2)
	Sample Date	5/6/03	ES
		(ug/L)	(ug/L)
Groundwater Elevation (MSL)		607.29	
Benzene	(µg/L)	<0.3	5
Bromobenzene	(µg/L)	--	--
Bromochloromethane	(µg/L)	--	--
Bromodichloromethane	(µg/L)	--	0.6
Bromoform	(µg/L)	--	--
Bromomethane	(µg/L)	--	--
sec-Butylbenzene	(µg/L)	--	--
tert-Butylbenzene	(µg/L)	--	--
n-Butylbenzene	(µg/L)	--	--
Carbon Tetrachloride	(µg/L)	--	5
Chloroform	(µg/L)	--	6
Chlorobenzene	(µg/L)	--	--
Chlorodibromomethane	(µg/L)	--	--
Chloroethane	(µg/L)	--	400
Chloromethane	(µg/L)	--	3
2-Chlorotoluene	(µg/L)	--	--
4-Chlorotoluene	(µg/L)	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	--	0.2
1,2-Dibromoethane	(µg/L)	--	--
Dibromomethane	(µg/L)	--	--
1,3-Dichlorobenzene	(µg/L)	--	1250
1,4-Dichlorobenzene	(µg/L)	--	75
1,2-Dichloroethane	(µg/L)	--	5
1,2-Dichlorobenzene	(µg/L)	--	600
1,1-Dichloroethene	(µg/L)	--	7
cis 1,2-Dichloroethene	(µg/L)	--	--
Dichlorodifluoromethane	(µg/L)	--	1000
trans 1,2-Dichloroethene	(µg/L)	--	--
1,2-Dichloropropane	(µg/L)	--	0.2
1,1-Dichloroethane	(µg/L)	--	850
1,3-Dichloropropane	(µg/L)	--	--
2,2-Dichloropropane	(µg/L)	--	--
1,1-Dichloropropene	(µg/L)	--	--
cis-1,3-Dichloropropene	(µg/L)	--	--
trans-1,3-Dichloropropene	(µg/L)	--	--
Di-isopropyl ether	(µg/L)	--	--
Ethylbenzene	(µg/L)	<0.6	700
Fluorotrichloromethane	(µg/L)	--	--
Hexachlorobutadiene	(µg/L)	--	--
Isopropylbenzene	(µg/L)	--	--
p-Isopropyltoluene	(µg/L)	--	--
Methylene Chloride	(µg/L)	--	5
Methyl tert-butyl ether	(µg/L)	<0.58	60
Naphthalene	(µg/L)	<0.58	40
n-Propylbenzene	(µg/L)	--	--
Styrene	(µg/L)	--	--
1,1,2,2-Tetrachloroethane	(µg/L)	--	0.2
1,1,1,2-Tetrachloroethane	(µg/L)	--	--
Tetrachloroethene	(µg/L)	--	5
Toluene	(µg/L)	<0.58	1000
1,2,3-Trichlorobenzene	(µg/L)	--	--
1,2,4-Trichlorobenzene	(µg/L)	--	70
1,1,1-Trichloroethane	(µg/L)	--	200
1,1,2-Trichloroethane	(µg/L)	--	5
Total Trimethylbenzene	(µg/L)	<1.18	480
Trichloroethene	(µg/L)	--	5
1,2,3-Trichloropropane	(µg/L)	--	--
Vinyl Chloride	(µg/L)	--	0.2
Xylenes	(µg/L)	<1.84	10,000
Lead	(mg/l)	0.0041	0.015
Acenaphthene	(µg/l)	--	--
Acenaphthylene	(µg/l)	--	--
Anthracene	(µg/l)	--	3000
Benzo(a)anthracene	(µg/l)	--	--
Benzo(a)Pyrene	(µg/l)	--	0.2
Benzo(b)Fluoranthene	(µg/l)	--	0.2
Benzo(ghi)Perylene	(µg/l)	--	--
Benzo(k)fluoranthene	(µg/l)	--	--
Indeno(1,2,3-cd)pyrene	(µg/l)	--	--
Chrysene	(µg/l)	--	--
Dibenzo(a,h)Anthracene	(µg/l)	--	--
Fluoranthene	(µg/l)	--	400
Fluorene	(µg/l)	--	400
2-Methyl Naphthalene	(µg/l)	--	--
1-Methyl Naphthalene	(µg/l)	--	--
Naphthalene	(µg/l)	--	40
Phenanthrene	(µg/l)	--	--
Pyrene	(µg/l)	--	250

Notes:

ES = NR 140 Enforcement Standard established March 2000

PAL = NR 140 Preventive Action Limit established March 2000

NR 140 ES Exceedance

µg/L = micrograms per liter

(1) = Elevation based on STS 11/21/02 survey

(2) Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 18
 Groundwater Analytical Results
 Monitoring Well FTC- 44
 Tyco Safety Products - Ansul
 Fire Technology Center
 Marinette, Wisconsin

FTC-44						
Ground Surface Elevation (MSL) =		609	(1)			
Top of Screen Elevation (MSL) =		604	(2)			
Bottom of Screen Elevation (MSL) =		694	(2)			
	Sample Date	5/6/03	6/9/03	8/4/03	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)		607.97	607.60	606.74		
Benzene	(µg/L)	<0.3	<3.0	<0.3	5	0.5
Bromobenzene	(µg/L)	--	--	--	--	--
Bromochloromethane	(µg/L)	--	--	--	--	--
Bromodichloromethane	(µg/L)	--	--	--	0.6	0.06
Bromoform	(µg/L)	--	--	--	--	--
Bromomethane	(µg/L)	--	--	--	--	--
sec-Butylbenzene	(µg/L)	--	--	--	--	--
tert-Butylbenzene	(µg/L)	--	--	--	--	--
n-Butylbenzene	(µg/L)	--	--	--	--	--
Carbon Tetrachloride	(µg/L)	--	--	--	5	0.5
Chloroform	(µg/L)	--	--	--	6	0.6
Chlorobenzene	(µg/L)	--	--	--	--	--
Chlorodibromomethane	(µg/L)	--	--	--	--	--
Chloroethane	(µg/L)	--	--	--	400	80
Chloromethane	(µg/L)	--	--	--	3	0.3
2-Chlorotoluene	(µg/L)	--	--	--	--	--
4-Chlorotoluene	(µg/L)	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	--	--	--	0.2	0.02
1,2-Dibromoethane	(µg/L)	--	--	--	--	--
Dibromomethane	(µg/L)	--	--	--	--	--
1,3-Dichlorobenzene	(µg/L)	--	--	--	1250	125
1,4-Dichlorobenzene	(µg/L)	--	--	--	75	15
1,2-Dichloroethane	(µg/L)	--	--	--	5	0.5
1,2-Dichlorobenzene	(µg/L)	--	--	--	600	60
1,1-Dichloroethene	(µg/L)	--	--	--	7	0.7
cis-1,2-Dichloroethene	(µg/L)	--	--	--	--	--
Dichlorodifluoromethane	(µg/L)	--	--	--	1000	200
trans-1,2-Dichloroethene	(µg/L)	--	--	--	--	--
1,2-Dichloropropane	(µg/L)	--	--	--	0.2	0.02
1,1-Dichloroethane	(µg/L)	--	--	--	850	85
1,3-Dichloropropane	(µg/L)	--	--	--	--	--
2,2-Dichloropropane	(µg/L)	--	--	--	--	--
1,1-Dichloropropene	(µg/L)	--	--	--	--	--
cis-1,3-Dichloropropene	(µg/L)	--	--	--	--	--
trans-1,3-Dichloropropene	(µg/L)	--	--	--	--	--
Di-isopropyl ether	(µg/L)	--	--	--	--	--
Ethylbenzene	(µg/L)	<0.6	<6.0	<0.6	700	140
Fluorotrichloromethane	(µg/L)	--	--	--	--	--
Hexachlorobutadiene	(µg/L)	--	--	--	--	--
Isopropylbenzene	(µg/L)	--	--	--	--	--
p-Isopropyltoluene	(µg/L)	--	--	--	--	--
Methylene Chloride	(µg/L)	--	--	--	5	0.5
Methyl tert-butyl ether	(µg/L)	170	86	69	60	12
Naphthalene	(µg/L)	<0.58	--	--	40	8
n-Propylbenzene	(µg/L)	--	--	--	--	--
Styrene	(µg/L)	--	--	--	--	--
1,1,2,2-Tetrachloroethane	(µg/L)	--	--	--	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	--	--	--	--	--
Tetrachloroethene	(µg/L)	--	--	--	5	0.5
Toluene	(µg/L)	<0.58	<5.8	<0.58	1000	200
1,2,3-Trichlorobenzene	(µg/L)	--	--	--	--	--
1,2,4-Trichlorobenzene	(µg/L)	--	--	--	70	14
1,1,1-Trichloroethane	(µg/L)	--	--	--	200	40
1,1,2-Trichloroethane	(µg/L)	--	--	--	5	0.5
Total Trimethylbenzene	(µg/L)	<1.18	<11.8	<1.18	480	96
Trichloroethene	(µg/L)	--	--	--	5	0.5
1,2,3-Trichloropropane	(µg/L)	--	--	--	--	--
Vinyl Chloride	(µg/L)	--	--	--	0.2	0.02
Xylenes	(µg/L)	<1.84	<18.4	<1.84	10,000	1000
Lead	(mg/l)	0.019	--	--	0.015	0.0015
Acenaphthene	(µg/l)	--	--	--	--	--
Acenaphthylene	(µg/l)	--	--	--	--	--
Anthracene	(µg/l)	--	--	--	3000	600
Benzo(a)anthracene	(µg/l)	--	--	--	--	--
Benzo(a)Pyrene	(µg/l)	--	--	--	0.2	0.02
Benzo(b)Fluoranthene	(µg/l)	--	--	--	0.2	0.02
Benzo(ghi)Perylene	(µg/l)	--	--	--	--	--
Benzo(k)fluoranthene	(µg/l)	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	(µg/l)	--	--	--	--	--
Chrysene	(µg/l)	--	--	--	--	--
Dibenzo(a,h)Anthracene	(µg/l)	--	--	--	--	--
Fluoranthene	(µg/l)	--	--	--	400	80
Fluorene	(µg/l)	--	--	--	400	80
2-Methyl Naphthalene	(µg/l)	--	--	--	--	--
1-Methyl Naphthalene	(µg/l)	--	--	--	--	--
Naphthalene	(µg/l)	--	--	--	40	8
Phenanthrene	(µg/l)	--	--	--	--	--
Pyrene	(µg/l)	--	--	--	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 µg/L = micrograms per liter
 (1) = Elevation based on STS 11/21/02 survey
 (2) = Screen interval data based on Dames & Moore mid-1990s report

Table 3 p 19
 Groundwater Analytical Results
 Monitoring Well FTC- 45
 Tyco Safety Products - Ansul
 Fire Technology Center
 Marinette, Wisconsin

FTC-45					
Ground Surface Elevation (MSL) = 607.3 (1)					
Top of Screen Elevation (MSL) = 605					
Bottom of Screen Elevation (MSL) = 603					
	Sample Date	6/9/03	8/4/03	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)		607.26	606.42		
Benzene	(µg/L)	<0.3	<0.3	5	0.5
Bromobenzene	(µg/L)	--	--	--	--
Bromochloromethane	(µg/L)	--	--	--	--
Bromodichloromethane	(µg/L)	--	--	0.6	0.06
Bromoform	(µg/L)	--	--	--	--
Bromomethane	(µg/L)	--	--	--	--
sec-Butylbenzene	(µg/L)	--	--	--	--
tert-Butylbenzene	(µg/L)	--	--	--	--
n-Butylbenzene	(µg/L)	--	--	--	--
Carbon Tetrachloride	(µg/L)	--	--	5	0.5
Chloroform	(µg/L)	--	--	6	0.6
Chlorobenzene	(µg/L)	--	--	--	--
Chlorodibromomethane	(µg/L)	--	--	--	--
Chloroethane	(µg/L)	--	--	400	80
Chloromethane	(µg/L)	--	--	3	0.3
2-Chlorotoluene	(µg/L)	--	--	--	--
4-Chlorotoluene	(µg/L)	--	--	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	--	--	0.2	0.02
1,2-Dibromoethane	(µg/L)	--	--	--	--
Dibromomethane	(µg/L)	--	--	--	--
1,3-Dichlorobenzene	(µg/L)	--	--	1250	125
1,4-Dichlorobenzene	(µg/L)	--	--	75	15
1,2-Dichloroethane	(µg/L)	--	--	5	0.5
1,2-Dichlorobenzene	(µg/L)	--	--	600	60
1,1-Dichloroethene	(µg/L)	--	--	7	0.7
cis-1,2-Dichloroethene	(µg/L)	--	--	--	--
Dichlorodifluoromethane	(µg/L)	--	--	1000	200
trans-1,2-Dichloroethene	(µg/L)	--	--	--	--
1,2-Dichloropropane	(µg/L)	--	--	0.2	0.02
1,1-Dichloroethane	(µg/L)	--	--	850	85
1,3-Dichloropropane	(µg/L)	--	--	--	--
2,2-Dichloropropane	(µg/L)	--	--	--	--
1,1-Dichloropropene	(µg/L)	--	--	--	--
cis-1,3-Dichloropropene	(µg/L)	--	--	--	--
trans-1,3-Dichloropropene	(µg/L)	--	--	--	--
Di-isopropyl ether	(µg/L)	--	--	--	--
Ethylbenzene	(µg/L)	<0.6	<0.6	700	140
Fluorotrichloromethane	(µg/L)	--	--	--	--
Hexachlorobutadiene	(µg/L)	--	--	--	--
Isopropylbenzene	(µg/L)	--	--	--	--
p-Isopropyltoluene	(µg/L)	--	--	--	--
Methylene Chloride	(µg/L)	--	--	5	0.5
Methyl tert-butyl ether	(µg/L)	<0.58	<0.58	60	12
Naphthalene	(µg/L)	--	--	40	8
n-Propylbenzene	(µg/L)	--	--	--	--
Styrene	(µg/L)	--	--	--	--
1,1,2,2-Tetrachloroethane	(µg/L)	--	--	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	--	--	5	0.5
Tetrachloroethene	(µg/L)	--	--	5	0.5
Toluene	(µg/L)	<0.58	<0.58	1000	200
1,2,3-Trichlorobenzene	(µg/L)	--	--	--	--
1,2,4-Trichlorobenzene	(µg/L)	--	--	70	14
1,1,1-Trichloroethane	(µg/L)	--	--	200	40
1,1,2-Trichloroethane	(µg/L)	--	--	5	0.5
Total Trimethylbenzene	(µg/L)	<1.18	<1.18	480	96
Trichloroethene	(µg/L)	--	--	5	0.5
1,2,3-Trichloropropane	(µg/L)	--	--	--	--
Vinyl Chloride	(µg/L)	--	--	0.2	0.02
Xylenes	(µg/L)	<1.84	<1.84	10,000	1000
Lead	(mg/l)	--	--	0.015	0.0015
Acenaphthene	(µg/l)	--	--	--	--
Acenaphthylene	(µg/l)	--	--	--	--
Anthracene	(µg/l)	--	--	3000	600
Benzo(a)anthracene	(µg/l)	--	--	--	--
Benzo(a)pyrene	(µg/l)	--	--	0.2	0.02
Benzo(b)fluoranthene	(µg/l)	--	--	0.2	0.02
Benzo(ghi)perylene	(µg/l)	--	--	--	--
Benzo(k)fluoranthene	(µg/l)	--	--	--	--
Indeno(1,2,3-cd)pyrene	(µg/l)	--	--	--	--
Chrysene	(µg/l)	--	--	--	--
Dibenzo(a,h)anthracene	(µg/l)	--	--	--	--
Fluoranthene	(µg/l)	--	--	400	80
Fluorene	(µg/l)	--	--	400	80
2-Methyl Naphthalene	(µg/l)	--	--	--	--
1-Methyl Naphthalene	(µg/l)	--	--	--	--
Naphthalene	(µg/l)	--	--	40	8
Phenanthrene	(µg/l)	--	--	--	--
Pyrene	(µg/l)	--	--	250	50

Notes:
 ES = NR 140 Enforcement Standard established March 2000
 PAL = NR 140 Preventive Action Limit established March 2000
 NR 140 ES Exceedance
 µg/L = micrograms per liter
 (1) = Elevation based on STS 06/09/03 survey

Tyco Safety Products - Ansul
STS Project No. 4-27380W

Appendix A

WDNR Soil Boring Log Information Form

WDNR Monitoring Well Construction Form

WDNR Monitoring Well Development Form

WDNR Wisconsin Well Constructor's Reports (4)



Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Ansul Fire Technology Center		License/Permit/Monitoring Number 03-38-001345		Boring Number MW-35	
Boring Drilled By (Firm name and name of crew chief) STS Consultants Ltd. - D. Maroszek - STS Project No. 27380W		Date Drilling Started 8/8/2002		Date Drilling Completed 8/8/2002	
Drilling Method Hollow-stem auger		WI Unique Well No. PK183		DNR Well ID No.	
Common Well Name MW-35		Final Static Water Elevation Ft.		Surface Elevation 611.0 Ft.	
Borehole Diameter 8.0 Inches		Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane 1/4 of NE 1/4 of Section 13, T 30 N, R 23 E		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Marinette		County Code 38	
				Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	24 15	12	1.5	Brown base coarse Fill: Brown to black fine to medium silty sand (SM) - trace fine to medium gravel - dry	SM			<0.1						
2 SS	24 24	10	3.0	Brown fine to medium silty sand (SP) - trace fine to medium gravel - medium dense to loose - wet at 4.0 feet	SP			<0.1						
3 SS	24 13	18	4.5					<0.1						
4 SS	24 21	4	7.5					<0.1						
5 SS	24 18	9	9.0					<0.1						
			10.5					<0.1						
			12.0											
			13.5											
				End of Boring. Boring advanced from 0.0 feet to 14.0 feet with 4 1/4-inch ID hollow-stem auger. Installed 2-inch diameter Schedule 40 PVC groundwater monitoring well at 13.0 feet with flush mounted protector pipe.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Robert Nottel</i>	Firm STS Consultants Ltd. 1035 Kepler Drive, Green Bay, WI 54311	Tel: 920-468-1978 Fax: 920-468-3312
-----------------------------------	---	--

Facility/Project Name Ansul Fire Technology Center	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-35
Facility License, Permit or Monitoring No. 03-38-001345	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or St. Plane _____ ft. N, _____ ft. E. S/C/N	Wis. Unique Well No. PK183 DNR Well Number
Facility ID	Section Location of Waste/Source _____ 1/4 of NE 1/4 of Sec. 13 , T. 30 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Date Well Installed 08/08/2002
Type of Well Well Code 11/mw	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) Dale Maroszek
Distance Well Is From Waste/Source Boundary ft.		STS Consultants Ltd.

- A. Protective pipe, top elevation 611.00 ft. MSL
- B. Well casing, top elevation 610.51 ft. MSL
- C. Land surface elevation 611.0 ft. MSL
- D. Surface seal, bottom 610.0 ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

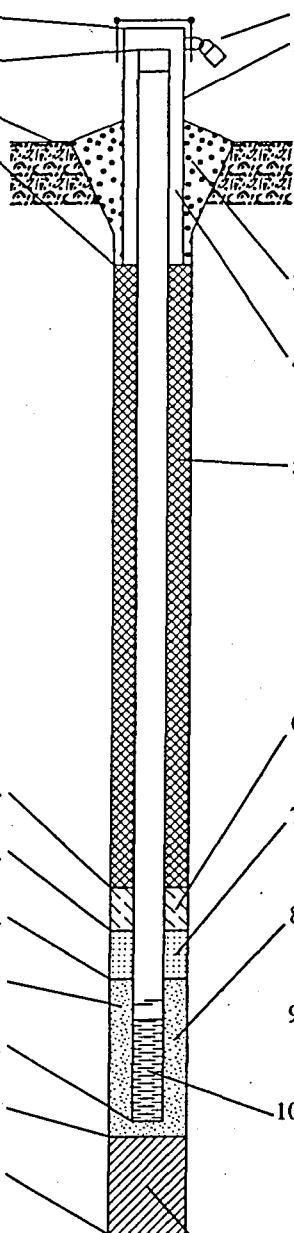
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis):



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 8.0 in.
 - b. Length: 1.0 ft.
 - c. Material: _____ flush mount Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: concrete
- 3. Surface seal: _____
Bentonite 3 0
Concrete 0 1
Other
- 4. Material between well casing and protective pipe: _____
Bentonite 3 0
Other
- 5. Annular space seal:
 - a. Granular Bentonite 3 3
 - b. _____ Lbs/gal mud weight . Bentonite-sand slurry 3 5
 - c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
 - d. _____ % Bentonite . . . Bentonite-cement grout 5 0
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal:
 - a. Bentonite granules 3 3
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 3 2
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name and mesh size
a. 40/60 SI SA Badger
b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name and mesh size
a. 40/60 SI SA Badger
b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other
- 10. Screen material: PVC
 - a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other
 - b. Manufacturer Buffalo
 - c. Slot size: 0.010 in.
 - d. Slotted length: 10.0 ft.
- 11. Backfill material (below filter pack): _____
None 1 4
Other

- E. Bentonite seal, top 611.0 ft. MSL or 0.0 ft.
- F. Fine sand, top 608.5 ft. MSL or 2.5 ft.
- G. Filter pack, top 608.5 ft. MSL or 2.5 ft.
- H. Screen joint, top 608.0 ft. MSL or 3.0 ft.
- I. Well bottom 598.0 ft. MSL or 13.0 ft.
- J. Filter pack, bottom 597.0 ft. MSL or 14.0 ft.
- K. Borehole, bottom 597.0 ft. MSL or 14.0 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.22 in.
- N. I.D. well casing 2.00 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Robert Mottel Firm **STS Consultants Ltd.** Tel: 920-468-1978
 1035 Kepler Drive, Green Bay, Wisconsin Fax: 920-468-3312

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Ansul Fire Technology Center		License/Permit/Monitoring Number		Boring Number AFTC-42	
Boring Drilled By (Firm name and name of crew chief) STS Consultants Ltd. - J. Carlson - STS Project No. 27380W		Date Drilling Started 4/29/2003		Date Drilling Completed 4/29/2003	
WI Unique Well No. PK246		DNR Well ID No. AFTC-42		Common Well Name AFTC-42	
Final Static Water Elevation Ft.		Surface Elevation 610.0 Ft.		Borehole Diameter 8.0 Inches	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane 1/4 of NE 1/4 of Section 13, T 30 N, R 23 E			Local Grid Location (If applicable) Lat. _____ Long. _____ Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Marinette		County Code 38	
Civil Town/City/ or Village Marinette					

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 SS	24 21	4	0.0 - 1.5	Topsoil				0.1							
2 SS	24 12	5	1.5 - 3.0	Fill: Brown fine silty sand - some buried topsoil				0.9							
3 SS	24 14	7	3.0 - 4.5	Brown fine to medium silty sand (SP) - wet at 3.0 feet - swampy organic odor at 3.0 feet - loose	SP			0.5							
4 SS	24 14	1	4.5 - 6.0												
5 SS	24 0		6.0 - 10.5	Sand blow into hollow-stem augers											
			10.5 - 13.5	Blind drilled - no sample collected - based on field observation soil consists of brown fine silty sand											
			13.5 - 15.0	End of Boring. Boring advanced from 0.0 feet to 15.0 feet with 4 1/4-inch hollow-stem auger. Installed 2-inch diameter Schedule 40 PVC groundwater monitoring well at 15.0 feet. Monitoring well is flush-mounted.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *Robert J. Mott* Firm: STS Consultants, Ltd.
1035 Kepler Drive, Green Bay, WI 54311
Tel: 920-468-197 Fax: 920-468-331

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

Facility/Project Name Ansul Fire Technology Center	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name AFTC-42
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or St. Plane _____ ft. N. _____ ft. E. S/C/N	Wis. Unique Well No. PK246 DNR Well Number
Facility ID	Section Location of Waste/Source _____ 1/4 of NE 1/4 of Sec. 13, T. 30 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Date Well Installed 04/29/2003
Type of Well Well Code 11/mw	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) John Carlson/Matt Bower
Distance Well Is From Waste/Source Boundary _____ ft.		STS Consultants Ltd.

A. Protective pipe, top elevation <u>610.00</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>609.61</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: <u>Aluminum</u> Steel <input type="checkbox"/> 04 Other <input checked="" type="checkbox"/>
C. Land surface elevation <u>610.0</u> ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>concrete</u>
D. Surface seal, bottom _____ ft. MSL or _____ ft.	3. Surface seal: <u>Bentonite</u> <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
<div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis): _____</p> </div>	
E. Bentonite seal, top <u>609.0</u> ft. MSL or <u>1.0</u> ft.	4. Material between well casing and protective pipe: <u>Bentonite</u> <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
F. Fine sand, top <u>607.2</u> ft. MSL or <u>2.8</u> ft.	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
G. Filter pack, top <u>607.2</u> ft. MSL or <u>2.8</u> ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
H. Screen joint, top <u>605.0</u> ft. MSL or <u>5.0</u> ft.	7. Fine sand material: Manufacturer, product name and mesh a. <u>Badger 20/40</u>
I. Well bottom <u>595.0</u> ft. MSL or <u>15.0</u> ft.	b. Volume added _____ ft ³
J. Filter pack, bottom <u>595.0</u> ft. MSL or <u>15.0</u> ft.	8. Filter pack material: Manufacturer, product name and mesh a. <u>Badger 20/40</u>
K. Borehole, bottom <u>595.0</u> ft. MSL or <u>15.0</u> ft.	b. Volume added _____ ft ³
L. Borehole, diameter <u>8.0</u> in.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
M. O.D. well casing <u>2.35</u> in.	10. Screen material: <u>PVC</u>
N. I.D. well casing <u>2.00</u> in.	a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
	b. Manufacturer <u>Buffalo</u>
	c. Slot size: <u>0.010</u> in.
	d. Slotted length: <u>10.0</u> ft.
	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Robert Mott

Firm **STS Consultants, Ltd.**
1035 Kepler Drive, Green Bay, Wisconsin

Tel: 920-468-1978
Fax: 920-468-3312

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Ansul Fire Technology Center	County Marinette	Well Name AFTC-42
Facility License, Permit or Monitoring Number	County Code 38	Wis. Unique Well Number PK246
		DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other

3. Time spent developing well **30.0 min.**

4. Depth of well (from top of well casing) **15.0 ft.**

5. Inside diameter of well **2.00 in.**

6. Volume of water in filter pack and well casing **10.0 gal.**

7. Volume of water removed from well **20.0 gal.**

8. Volume of water added (if any) **gal.**

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

11. Depth to Water Before Development After Development

(from top of well casing) a. **2.60 ft.** **2.85 ft.**

Date b. **04/29/2003** **04/29/2003**

Time c. **03:30 pm** **04:00 pm**

12. Sediment in well inches inches
bottom

13. Water clarity Clear 1 0 Clear 2 0
Turbid 1 5 Turbid 2 5
(Describe) (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l mg/l

15. COD mg/l mg/l

16. Well developed by: Person's Name and Firm

Robert J. Mottl

STS Consultants Ltd.

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: **Ansul Fire Technology Center**

Street: **Industrial Parkway**

City/State/Zip: **Marinette, Wisconsin 54143**

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: *Robert J. Mottl*

Print Name: **Robert J. Mottl**

Firm: **STS Consultants, Ltd.**

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Ansul Fire Technology Center		License/Permit/Monitoring Number		Boring Number AFTC-43	
Boring Drilled By (Firm name and name of crew chief) STS Consultants Ltd. - J. Carlson - STS Project No. 27380W		Date Drilling Started 4/29/2003		Date Drilling Completed 4/29/2003	
Drilling Method Hollow-stem auger		WI Unique Well No.		DNR Well ID No.	
Common Well Name AFTC-43		Final Static Water Elevation Ft.		Surface Elevation 609.7 Ft.	
Borehole Diameter 8.0 Inches		Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane 1/4 of NE 1/4 of Section 13, T 30 N, R 23 E		Local Grid Location (If applicable) Lat. _____ ° _____ ' _____ " <input type="checkbox"/> N <input type="checkbox"/> E Long. _____ ° _____ ' _____ " <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Marinette		County Code 38	
				Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	24 15	11	1.5	Fill: Brown to dark brown silty sand (SM) - trace to some fine gravel - organic odor	SM			175						
2 SS	24 14	7	3.0	Brown fine to medium silty sand (SP) - wet at 2.7 feet - loose - organic odor	SP			170						
3 SS	24 15	5	4.5					170						
				End of Boring. Boring advanced from 0.0 feet to 4.0 feet with 4 1/4-inch hollow-stem auger and to 6.0 feet with split-spoon auger. Boring backfilled with bentonite.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Robert Mottel Firm **STS Consultants, Ltd.** 1035 Kepler Drive, Green Bay, WI 54311 Tel: 920-468-1978 Fax: 920-468-3312

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form m result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed for

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME <u>Ansul Fire Technology Center</u>	
Well/Drillhole/Borehole Location	County <u>Marinette</u>	Original Well Owner (If Known) <u>Ansul Fire Technology Center</u>	
<u> </u> 1/4 of <u>NE</u> 1/4 of Sec. <u>13</u> ; T. <u>30</u> N.; R. <u>23</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W (If Applicable)		Present Well Owner <u>Ansul Fire Technology Center</u>	
Gov't Lot <u> </u> Grid Number <u> </u> Grid Location <u> </u> ft. <input type="checkbox"/> N. <input type="checkbox"/> S., <u> </u> ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Street or Route <u>Industrial Parkway</u>	
Civil Town Name <u>Marinette</u>		Facility Well No. and/or Name (If Applicable) <u>AFTC-43</u>	WI Unique Well No. <u> </u>
Street Address of Well <u>Industrial Parkway</u>		Reason For Abandonment <u>Completed sampling</u>	
City, Village <u>Marinette</u>		Date of Abandonment <u>04/29/03</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>2.8</u>	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>4/29/03</u>	Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain <u>soil boring only</u>	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) <u> </u>	(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input checked="" type="checkbox"/> Other (Explain) Gravity	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Total Well Depth (ft) <u> </u> Casing Diameter (in.) <u> </u> (From ground surface) Casing Depth (ft.) <u> </u> Lower Drillhole Diameter (in.) <u>8.0</u>	(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
Bentonite	Surface	6.0	1	

(8) Comments

(9) Name of Person or Firm Doing Sealing Work <u>STS Consultants Ltd.</u>	
Signature of Person Doing Work <u>Robert J. Mott</u>	Date Signed <u>5/7/05</u>
Street or Route <u>1035 Kepler Drive</u>	Telephone Number <u>920-468-1978</u>
City, State, Zip Code <u>Green Bay, Wisconsin 54311</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Ansul Fire Technology Center		License/Permit/Monitoring Number		Boring Number AFTC-44	
Boring Drilled By (Firm name and name of crew chief) STS Consultants Ltd. - J. Carlson - STS Project No. 27380W		Date Drilling Started 4/29/2003		Date Drilling Completed 4/29/2003	
Drilling Method Hollow-stem auger					
WI Unique Well No. PK247	DNR Well ID No.	Common Well Name AFTC-44	Final Static Water Elevation Ft.	Surface Elevation 609.2 Ft.	Borehole Diameter 8.0 Inches
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane 1/4 of NE 1/4 of Section 13, T 30 N, R 23 E S/C/N			Local Grid Location (If applicable) Lat. _____ ° _____ ' _____ " <input type="checkbox"/> N <input type="checkbox"/> E Long. _____ ° _____ ' _____ " <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Marinette	County Code 38	Civil Town/City/ or Village Marinette	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments											
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200												
1 SS	24/15	7	0.0 - 1.5	Topsoil Fill: Light brown fine silty sand (SP)	SP			0.2																	
2 SS	24/15	11	1.5 - 3.0	Brown fine to medium silty sand (SP) - wet at 2.5 feet - loose - slight swampy odor at 6.0 to 8.0 feet	SP			0.3																	
3 SS	24/14	7	3.0 - 4.5													0.2									
4 SS	24/9	2	4.5 - 6.0																						
5 SS	24/19	2	6.0 - 10.5	<0.1																					
				End of Boring. Boring advanced from 0.0 feet to 15.0 feet with 4 1/4-inch hollow-stem auger. Installed 2-inch diameter Schedule 40 PVC groundwater monitoring well at 15.0 feet. Monitoring well is flush-mounted with a 2.5 foot stick-up.																					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *Robert J. Mottel* Firm: STS Consultants, Ltd. 1035 Kepler Drive, Green Bay, WI 54311
Tel: 920-468-1978 Fax: 920-468-3312

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Ansul Fire Technology Center	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name AFTC-44
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or	Wis. Unique Well No. PK247 DNR Well Number
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04/29/2003
Type of Well Well Code 11/mw	Section Location of Waste/Source 1/4 of NE 1/4 of Sec. 13 , T. 30 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) John Carlson/Matt Bower
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	STS Consultants Ltd.

A. Protective pipe, top elevation <u>611.85</u> ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>611.59</u> ft. MSL		2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>4.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>609.2</u> ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ ft.		3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		7. Fine sand material: Manufacturer, product name and mesh a. <u>Badger 20/40</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		8. Filter pack material: Manufacturer, product name and mesh a. <u>Badger SI SA 20/40</u> b. Volume added _____ ft ³
17. Source of water (attach analysis): _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>608.2</u> ft. MSL or <u>1.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>	
F. Fine sand, top <u>606.7</u> ft. MSL or <u>2.5</u> ft.	b. Manufacturer: <u>Buffalo</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.	
G. Filter pack, top <u>605.7</u> ft. MSL or <u>3.5</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>	
H. Screen joint, top <u>604.2</u> ft. MSL or <u>5.0</u> ft.		
I. Well bottom <u>594.2</u> ft. MSL or <u>15.0</u> ft.		
J. Filter pack, bottom <u>594.2</u> ft. MSL or <u>15.0</u> ft.		
K. Borehole, bottom <u>594.2</u> ft. MSL or <u>15.0</u> ft.		
L. Borehole, diameter <u>8.0</u> in.		
M. O.D. well casing <u>2.35</u> in.		
N. I.D. well casing <u>2.00</u> in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Robert J. Mottel Firm: STS Consultants, Ltd. 1035 Kepler Drive, Green Bay, Wisconsin
Tel: 920-468-1976 Fax: 920-468-3312

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Ansul Fire Technology Center	County Marinette	Well Name AFTC-44	
Facility License, Permit or Monitoring Number	County Code 38	Wis. Unique Well Number PK247	DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed, and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - other

3. Time spent developing well **30.0 min.**
4. Depth of well (from top of well casing) **17.5 ft.**
5. Inside diameter of well **2.00 in.**
6. Volume of water in filter pack and well casing **10.0 gal.**
7. Volume of water removed from well **20.0 gal.**
8. Volume of water added (if any) **gal.**
9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 2.50 ft.	2.75 ft.
Date	b. 04/29/2003	04/29/2003
Time	c. 04:00 pm	04:30 pm
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids **mg/l** **mg/l**
15. COD **mg/l** **mg/l**

16. Well developed by: Person's Name and Firm

Robert J. Mottl
STS Consultants Ltd.

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: Ansul Fire Technology Center

Street: Industrial Parkway

City/State/Zip: Marinette, Wisconsin 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Robert J. Mottl

Print Name: Robert J. Mottl

Firm: STS Consultants, Ltd.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Ansul Fire Technology Center		License/Permit/Monitoring Number		Boring Number AFTC-45	
Boring Drilled By: Name of crew chief (first, last) and Firm Bob Mottl, STS Project No. 27380WA STS Consultants Ltd.		Date Drilling Started 6/6/2003		Date Drilling Completed 6/6/2003	
WI Unique Well No.		DNR Well ID No.		Common Well Name AFTC-45	
Final Static Water Level Feet MSL		Surface Elevation 607.3 Feet MSL		Borehole Diameter 6.0 inches	

Local Grid Origin (estimated:) or Boring Location
State Plane **N, E S/C/N** Lat **_____** ° **_____** ' **_____** " N E
1/4 of NE 1/4 of Section 13, T 30 N, R 20 E Long **_____** ° **_____** ' **_____** " S W
Feet Feet

Facility ID _____ County **Marinette** County Code **38** Civil Town/City/ or Village **Marinette**

Sample Number and Type	Length Art. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	Topsoil/leaves, roots, organics - moist											
			2	Light brown fine silty sand (SP) - wet at 2.0 feet	SP										
			3												
			4	End of Boring. Boring advanced from 0.0 feet to 4.0 feet by 6-inch hand auger. Installed 2-inch diameter Schedule 40 PVC monitoring well at 4.0 feet.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Robert J. Mottl Firm **STS Consultants, Ltd.** 1035 Kepler Dr. Green Bay, WI 54311 Tel: 920-468-1978 Fax: 920-468-3312

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other Underground tanks

Facility/Project Name Ansul Fire Technology Center		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name AFTC-45	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well Number	
Facility ID		St. Plane _____ ft. N, _____ ft. E. S/C/N		Date Well Installed 06/06/2003	
Type of Well Well Code 11/mw		Section Location of Waste/Source _____ 1/4 of NE 1/4 of Sec. 13, T. 30 N, R. 20 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: (Person's Name and Firm) Bob Mottl	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	
Enf. Stds. Apply <input type="checkbox"/>				STS Consultants Ltd.	

A. Protective pipe, top elevation _____ ft. MSL		1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No	
B. Well casing, top elevation <u>610.08</u> ft. MSL		2. Protective cover pipe: a. Inside diameter: _____ in b. Length: _____ ft c. Material: Steel <input type="checkbox"/> 04 Other <input checked="" type="checkbox"/>	
C. Land surface elevation <u>607.3</u> ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____	
D. Surface seal, bottom <u>607.3</u> ft. MSL or <u>0.0</u> ft.		3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>	
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>	
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ F ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08	
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Hand auger <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>	
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		7. Fine sand material: Manufacturer, product name & mesh size a. <u>20/40 Silica</u> b. Volume added _____ ft ³	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		8. Filter pack material: Manufacturer, product name & mesh size a. <u>20/40 Silica</u> b. Volume added _____ ft ³	
17. Source of water (attach analysis, if required): _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>	
E. Bentonite seal, top <u>607.3</u> ft. MSL or <u>0.0</u> ft.	10. Screen material: PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>		
F. Fine sand, top <u>605.3</u> ft. MSL or <u>2.0</u> ft.	b. Manufacturer <u>Crestline</u> c. Slot size: <u>0.006</u> in d. Slotted length: <u>2.0</u> ft		
G. Filter pack, top <u>605.3</u> ft. MSL or <u>2.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>		
H. Screen joint, top <u>605.3</u> ft. MSL or <u>2.0</u> ft.			
I. Well bottom <u>603.3</u> ft. MSL or <u>4.0</u> ft.			
J. Filter pack, bottom <u>603.3</u> ft. MSL or <u>4.0</u> ft.			
K. Borehole, bottom <u>603.3</u> ft. MSL or <u>4.0</u> ft.			
L. Borehole, diameter <u>6.0</u> in.			
M. O.D. well casing <u>2.35</u> in.			
N. I.D. well casing <u>2.00</u> in.			

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Robert Mottl Firm STS Consultants, Ltd. 1035 Kepler Dr. Green Bay, WI 54311
Tel: 920-468-1978 Fax: 920-468-3312

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH **RECEIVED** 6

See Instructions on Reverse Side

1. County Marinette { Town Peshtigo, 1965
 Village
 City Check one and give name

2. Location S 1/2 of SE 1/4 Sec 12, T30N, R23E
 Name of street and number of premise or Section, Town and Range numbers

3. Owner or Agent Ansul Chemical Company
 Name of individual, partnership or firm

4. Mail Address Stanton Street, Marinette, Wisconsin
 Complete address required

5. From well to nearest: Building 80 ft; sewer _____ ft; drain _____ ft; septic tank 120 ft;
 dry well or filter bed 130 ft; abandoned well _____ ft.

6. Well is intended to supply water for: Testing Station

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
12	0	15			
8	15	171			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
8	Steel	0	65

9. GROUT:

Kind	From (ft.)	To (ft.)
Clay	0	15

11. MISCELLANEOUS DATA:

Yield test: 24 Hrs. at 50 GPM.
 Depth from surface to water-level: 8 ft.
 Water-level when pumping: 16 ft.
 Water sample was sent to the state laboratory at:
Madison on 7-16 1964
 City

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Sand	0	18
Clay	18	65
Limestone	65	85
Shale	85	140
Limestone	140	171 171

Construction of the well was completed on:
7-15 1964

The well is terminated 12 inches
 above, below the permanent ground surface.

Was the well disinfected upon completion?
 Yes No _____

Was the well sealed watertight upon completion?
 Yes No _____

Signature Virgil Thomas
 Registered Well Driller

Route 1, Box 135, Peshtigo, Wisconsin
 Complete Mail Address

Rec'd _____ No. _____
 Ans'd _____
 Interpretation _____

 1964

10 ml _____ 10 ml _____ 10 ml _____ 10 ml _____ 10 ml _____
 Gas—24 hrs. _____
 48 hrs. _____
 Confirm _____
 B. Coli _____
 Examiner _____

1. COUNTY Marinette CHECK ONE Town Village City NAME Peshtigo

2. LOCATION (Number and Street or 1/4 section, section, township and range. Also give subdivision name, lot and block numbers when available.)
Part of SE 1/4 Sec. 12, T. 30N. - R. 23E.

3. OWNER AT TIME OF DRILLING
Gene Kampf

4. OWNER'S COMPLETE MAIL ADDRESS
Reams Rd. Peshtigo

5. Distance in feet from well to nearest:

BUILDING	SANITARY SEWER	FLOOR DRAIN	FOUNDATION DRAIN	WASTE WATER DRAIN
C. I.	TILE	C. I.	SEWER CONNECTED	INDEPENDENT
10	30			30

CLEAR WATER DRAIN	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
C. I.	TILE							
30		30	50	50				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)
None

6. Well is intended to supply water for:
Home

7. DRILLHOLE						10. FORMATIONS			
Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)	Kind	From (ft.)	To (ft.)	
10	Surface	20				Clay/Gravel	Surface	27	
6	20	155				Lime Rock	27	155	

8. CASING, LINER, CURBING, AND SCREEN			
Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6"Ø	New steel Plain end Welded	Surface	41
	20#		

9. GROUT OR OTHER SEALING MATERIAL			
Kind	From (ft.)	To (ft.)	
Puddled Clay	Surface	20	
Cement	27	41	

11. MISCELLANEOUS DATA

Well construction completed on 4-7 1969

Yield test: 12 Hrs. at 10 GPM Well is terminated 8 inches above below final grade

Depth from surface to normal water level 10 ft. Well disinfected upon completion Yes No

Depth to water level when pumping 85 ft. Well sealed watertight upon completion Yes No

Water sample sent to Madison laboratory on: 4-14 1969

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumphrooms, access pits, etc., should be given on reverse side.

GREG JOHNSON

SIGNATURE Greg Johnson Registered Well Driller COMPLETE MAIL ADDRESS "Well Drilling" Ph: 1-715-789-4254 R. 1, Box 150 Peshtigo, Wisconsin 54157

Please do not write in space below

COLIFORM TEST RESULT	GAS - 24 HRS.	GAS - 48 HRS.	CONFIRMED	REMARKS
1997				

**Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER**

GC744

State of Wisconsin
Private Water Supply - WS/2
Department of Natural Resources
Box 7921
Madison, WI 53707 (Please type or print
using a black pen.)

SEP 21 1994

Property Owner **MARINETTE**
YOUTH BASEBALL INC. GC744 Telephone Number (000) 000 0000

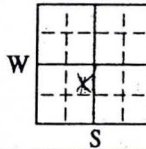
Mailing Address **PO BOX 261**
City **MARINETTE** State **WI** Zip Code **54143**

County of Well Location **MARINETTE** Co. Well Permit No. **W** Well Completion Date (mm-dd-yy) **08-04-94**

Well Constructor (Business Name) **LUISIER WELL DRILLING, INC.** License # **157**

Address **7391 SOUTH PORCUPINE LAKE ROAD**
City **LENA** State **WI** Zip Code **54139**

2. Mark well location with a dot in correct 40-acre parcel of section. **N**



1. Well Location Please use decimals instead of fractions.

Town City Village Fire # (If avail.)
of **PESHTIGO**

Grid or Street Address or Road Name and Number (If avail.)

Subdivision Name Lot # Block #

Gov't Lot # _____ or NE 1/4 of SW 1/4 of

Section **7**, T **30** N; R **24** E W

3. Well Type New

Replacement Reconstruction

of previous unique well # _____ constructed in 19 _____
Reason for new, replaced or reconstructed well?
Lawn Care

4. Well serves _____ # of homes and or **LAWN CARE**
(Ex: barn, restaurant, church, school, industry, etc.)

High Capacity:
Well? Yes No
Property? Yes No

Drilled Driven Point Jetted Other _____

5. Well located on highest point of property, consistent with the general layout and surroundings? Yes No If no, explain on back side.

Well located in floodplain? Yes No
Distance in Feet from Well To Nearest:

- 1. Landfill _____
- 40** 2. Building Overhang _____
- 3. Septic or Holding Tank (circle one) _____
- 4. Sewage Absorption Unit _____
- 5. Nonconforming Pit _____
- 6. Buried Home Heating Oil Tank _____
- 7. Buried Petroleum Tank _____
- 8. Shoreline/Swimming Pool _____

- 9. Downspout/Yard Hydrant _____
- 10. Privy _____
- 11. Foundation Drain to Clearwater _____
- 12. Foundation Drain to Sewer _____
- 13. Building Drain _____
 Cast Iron or Plastic Other _____
- 14. Building Sewer Gravity Pressure _____
 Cast Iron or Plastic Other _____
- 15. Collector or Street Sewer _____
- 16. Clearwater Sump _____
- 17. Wastewater Sump _____
- 18. Paved Animal Barn Pen _____
- 19. Animal Yard or Shelter _____
- 20. Silo - Type _____
- 21. Barn Gutter _____
- 22. Manure Pipe Gravity Pressure _____
 Cast Iron or Plastic Other _____
- 23. Other Manure Storage _____
Other NR 112 Waste Source _____
- 24. _____

6. Drillhole Dimensions
From To
Dia. (in.) (ft.) (ft.)

8.75	surface	45
8 3/4		
6	45	418

Method of constructing upper enlarged drillhole only.

- 1. Rotary - Mud Circulation
- 2. Rotary - Air
- 3. Rotary - Foam
- 4. Reverse Rotary
- 5. Cable-tool Bit _____ in. dia.
- 6. Temp. Outer Casing _____ in. dia.
Removed? Yes No
If no, explain _____
- 7. Other _____

DNR USE ONLY

9. Geology Type, Caving/Noncaving, Color, Hardness, Etc. From To (ft.) (ft.)

-IS	SANDY SOIL	Surface	38
-CG	CLAY AND STONES	38	45
-L-	LIMESTONE	45	388
-N-	SANDSTONE	388	418

7. Casing, Liner, Screen Material, Weight, Specification From To Dia. (in.) Manufacturer & Method of Assembly (ft.) (ft.)

6	NEW P.E. 18.97	surface	45
	SAHILL A-53	45	45
Dia. (in.)	screen type, material & slot size	From	To

10. Static Water Level _____ ft. above ground surface
10 ft. below ground surface

12. Well Is: Above Grade Below
Developed? Yes No
Disinfected? Yes No
Capped? Yes No

11. Pump Test Pumping Level **80** ft. below surface
Pumping at **60 GPM** for **3** hours

8. Grout or Other Sealing Material Method From To # Kind of Sealing Material (ft.) (ft.) Sacks Cement

	surface	45	
DRILL CUTTINGS			

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
 Yes No If no, explain _____

14. Signature of Point Driver or Licensed Supervisory Driller Date Signed
James Mlym JM - 9 - 19 - 94
Signature of Drill Rig Operator (Mandatory unless same as above) Date Signed

Make additional comments on reverse side about geology, additional screens, water quality, etc. Comments on reverse side _____ (Check , if yes)

DNR

WELL CONSTRUCTION REPORT 281
Form 3300-77A Rev. 11-92

WGNS ORIGINAL

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER **HY 438**

Property Owner **T J BERGAN** Telephone Number **(715) 735 7176**

Mailing Address **3325 PIERCE AVE**

City **MARINETTE** State **WI** Zip Code **54143**

County of Well Location **MARINETTE** Co. Well Permit No. **W** Well Completion Date (mm-dd-yy) **9-15-93**

State of Wisconsin
 Private Water Supply - WS/2
 Department of Natural Resources
 Box 7921
 Madison, WI 53707 (Please type or print using a black pen.)
SEP 19 1993

Well Constructor (Business Name) **38 WILLIAM WALKER** License # **4750**

Address **721 MAIN ST.**

City **MARINETTE** State **WIS** Zip Code **54143**

2. Mark well location with a dot in correct 40-acre parcel of section. **N**

1. Well Location Please use decimals instead of fractions.

Town City Village Fire # (If avail.)

of **MARINETTE**

Grid or Street Address or Road Name and Number (If avail.)
3325 PIERCE AVE

Subdivision Name Lot # Block #

Gov't Lot # or **SE 1/4** 1/4 of **NW** 1/4 of.

Section **18** T **30** N; R **24** E W

3. Well Type New

Replacement Reconstruction

of previous unique well # _____ constructed in 19 _____

Reason for new, replaced or reconstructed well? _____

4. Well serves # of homes and or **WATERING LAWN** High Capacity: Well? Yes No Property? Yes No

5. Well located on highest point of property, consistent with the general layout and surroundings? Yes No If no, explain on back side:

Well located in floodplain? Yes No Distance in Feet From Well To Nearest:

1. Landfill	9. Downspout/Yard Hydrant	17. Wastewater Sump
2. Building Overhang	10. Privy	18. Paved Animal Barn Pen
3. Septic or Holding Tank (circle one)	11. Foundation Drain to Clearwater	19. Animal Yard or Shelter
4. Sewage Absorption Unit	12. Foundation Drain to Sewer	20. Silo - Type _____
5. Nonconforming Pit	13. Building Drain	21. Barn Gutter
6. Buried Home Heating Oil Tank	<input type="checkbox"/> Cast Iron or Plastic <input type="checkbox"/> Other	22. Manure Pipe <input type="checkbox"/> Gravity <input type="checkbox"/> Pressure
7. Buried Petroleum Tank	14. Building Sewer <input type="checkbox"/> Gravity <input type="checkbox"/> Pressure	<input type="checkbox"/> Cast Iron or Plastic <input type="checkbox"/> Other
8. Shoreline/Swimming Pool	<input type="checkbox"/> Cast Iron or Plastic <input type="checkbox"/> Other	23. Other Manure Storage _____
	15. Collector or Street Sewer	Other NR 112 Waste Source _____
	16. Clearwater Sump	24. _____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
	surface	

Method of constructing upper enlarged drillhole only.

1. Rotary - Mud Circulation

2. Rotary - Air

3. Rotary - Foam

4. Reverse Rotary

5. Cable-tool Bit _____ in. dia.

6. Temp. Outer Casing _____ in. dia. Removed? Yes No

If no, explain _____

7. Other _____

9. Geology

Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
SAND	Surface	29

DNR USE ONLY

7. Casing, Liner, Screen Material, Weight, Specification

Dia. (in.)	Manufacturer & Method of Assembly	From (ft.)	To (ft.)
1.25	GALV. USA MADE	surface	26
			29

8. Grout or Other Sealing Material

Method	From (ft.)	To (ft.)	# Sacks Cement
	surface		

9. Pump Test

Pumping Level _____ ft. below surface

Pumping at **9** GPM for **1** hours

10. Static Water Level

_____ ft. above ground surface

7 ft. below ground surface

11. Pump Test

Developed? Yes No

Disinfected? Yes No

Capped? Yes No

12. Well Is:

Above Grade

Below Grade

13. Did you permanently seal all unused, noncomplying, or unsafe wells?

Yes No If no, explain _____

14. Signature of Point Driver or Licensed Supervisory Driller **W** (Date Signed) **9-15-93**

Signature of Drill Rig Operator (Mandatory unless same as above) _____ Date Signed _____

Tyco Safety Products - Ansul
STS Project No. 4-27380W

Appendix B

En Chem Inc. Analytical Reports



Corporate Office & Laboratory
1241 Bellevue Street
Green Bay, WI 54302
920-469-2436 • FAX: 920-469-8827
800-7-ENCHEM



Madison Office & Laboratory
525 Science Drive
Madison, WI 53711
608-232-3300 • FAX: 608-233-0502
888-5-ENCHEM

- Analytical Report -

Project Name :

Project Number : 27380W

Client: STS CONSULTANTS

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
824680-001	MW- ³⁵ 33 S-2 2-3'	8/8/02			
824680-002	B- ⁴⁰ 34 S-1	8/8/02			
824680-003	B- ⁴¹ 35 S-1	8/8/02			
824680-004	B-36 S-1	8/8/02			
824680-005	B-37 S-1	8/8/02			
824680-006	B-38 S-1	8/8/02			
824680-007	B-39 S-1	8/8/02			
824680-008	MEOH BLANK	8/8/02			

Please visit our Internet homepage at: www.enchem.com

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

Approval Signature

08/20/02
Date

En Chem, Inc. Cooler Receipt Log

Batch No. 824680

Project Name or ID Bob Mottz

No. of Coolers: 1

Temps: ROI

A. Receipt Phase: Date cooler was opened: 8/8/02 By: JR

- 1: Were samples received on ice? (Must be ≤ 6 C)..... YES NO²
- 2: Was there a Temperature Blank?..... YES NO
- 3: Were custody seals present and intact? (Record on COC)..... YES NO
- 4: Are COC documents present?..... YES NO²
- 5: Does this Project require quick turn around analysis?..... YES NO
- 6: Is there any sub-work?..... YES NO
- 7: Are there any short hold time tests?..... YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES¹ NO Contacted by/Who _____
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES¹ NO Contacted by/Who _____

B. Check-in Phase: Date samples were Checked-in: 8/8/02 By: JR

- 1: Were all sample containers listed on the COC received and intact?..... YES NO² NA
- 2: Sign the COC as received by En Chem. Completed..... YES NO
- 3: Do sample labels match the COC? YES NO²
- 4: Check sample pH of preserved samples. (Not VOCs) Completed..... YES NO NA
- 5: Do samples have correct chemical preservation?..... YES NO² NA
- 6: Are dissolved parameters field filtered?..... YES NO² NA
- 7: Are sample volumes adequate for tests requested? YES NO²
- 8: Are VOC samples free of bubbles >6mm YES NO² NA
- 9: Enter samples into logbook. Completed..... YES NO
- 10: Place laboratory sample number on all containers and COC. Completed..... YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed..... YES NO NA
- 12: Start Nonconformance form. YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES NO NA
- 14: Check laboratory sample number on all containers and COC. CP YES NO NA

Short Hold-time tests:

48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants Sulfite En Core Preservation Color	7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids Aqueous Extractable Organics- ALL Unpreserved VOC's Ash	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
--	---	--

Rev. 9/5/2001, Attachment to 1-REC-5.
 Subject to QA Audit.

Reviewed by/date JB 8/12/02

Organic Data Qualifiers

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit.
- D Analyte value from diluted analysis, or surrogate result not applicable due to sample dilution.
- E Analyte concentration exceeds calibration range.
- F Surrogate results outside control criteria.
- H Extraction or analysis performed past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection limit may be elevated due to the presence of an unrequested analyte.
- N Spiked sample recovery not within control limits.
- P The relative percent difference between the two columns for detected concentrations was greater than 40%.
- Q The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- S The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
- U The analyte was not detected above the reporting limit.
- W Sample received with headspace.
- X See Sample Narrative.
- & Laboratory Control Spike recovery not within control limits.
- * Duplicate analyses not within control limits.
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : MW-35 S-2 2-3'
Lab Sample Number : 824680-001
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 8/20/02
Collection Date : 8/8/02
Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	91.6				%		8/8/02	SM 2540G M	SM 2540G M	JJ

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 8/12/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 100	100	240		ug/kg		8/12/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : MW-35 S-2 2-3'

Lab Sample Number : 824680-001

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 8/20/02

Collection Date : 8/8/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Naphthalene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	&	8/12/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Toluene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg		8/12/02	SW846 8260B
4-Bromofluorobenzene	87			%Recov		8/12/02	SW846 8260B
Dibromofluoromethane	88			%Recov		8/12/02	SW846 8260B
Toluene-d8	89			%Recov		8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : MW-³⁵~~38~~ S-2 2-3'
Lab Sample Number : 824680-001
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 8/20/02
Collection Date : 8/8/02
Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES		Prep Method: SW846 3545				Prep Date: 8/9/02	Analyst: RJN	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 18	18	57		ug/kg		8/13/02	SW846 8270C
Acenaphthylene	< 14	14	45		ug/kg		8/13/02	SW846 8270C
Anthracene	< 13	13	41		ug/kg		8/13/02	SW846 8270C
Benzo(a)anthracene	< 15	15	48		ug/kg		8/13/02	SW846 8270C
Benzo(a)pyrene	< 14	14	45		ug/kg		8/13/02	SW846 8270C
Benzo(b)fluoranthene	< 12	12	38		ug/kg		8/13/02	SW846 8270C
Benzo(g,h,i)perylene	< 13	13	41		ug/kg		8/13/02	SW846 8270C
Benzo(k)fluoranthene	< 14	14	45		ug/kg		8/13/02	SW846 8270C
Chrysene	< 15	15	48		ug/kg		8/13/02	SW846 8270C
Dibenzo(a,h)anthracene	< 12	12	38		ug/kg		8/13/02	SW846 8270C
Fluoranthene	< 11	11	35		ug/kg		8/13/02	SW846 8270C
Fluorene	< 14	14	45		ug/kg		8/13/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 13	13	41		ug/kg		8/13/02	SW846 8270C
1-Methylnaphthalene	< 15	15	48		ug/kg		8/13/02	SW846 8270C
2-Methylnaphthalene	< 13	13	41		ug/kg		8/13/02	SW846 8270C
Naphthalene	< 19	19	61		ug/kg		8/13/02	SW846 8270C
Phenanthrene	< 12	12	38		ug/kg		8/13/02	SW846 8270C
Pyrene	< 13	13	41		ug/kg		8/13/02	SW846 8270C
Nitrobenzene-d5	77				%Recov		8/13/02	SW846 8270C
2-Fluorobiphenyl	69				%Recov		8/13/02	SW846 8270C
Terphenyl-d14	69				%Recov		8/13/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : B-34⁴⁰ S-1
Lab Sample Number : 824680-002
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 8/20/02
Collection Date : 8/8/02
Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	97.6				%		8/8/02	SM 2540G M	SM 2540G M	JL

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 8/12/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 100	100	240		ug/kg		8/12/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : B-24 S-1
4°

Lab Sample Number : 824680-002

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 8/20/02

Collection Date : 8/8/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Fluorotrchloromethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Naphthalene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	&	8/12/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Toluene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg		8/12/02	SW846 8260B
4-Bromofluorobenzene	93			%Recov		8/12/02	SW846 8260B
Dibromofluoromethane	88			%Recov		8/12/02	SW846 8260B
Toluene-d8	93			%Recov		8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : B-34⁴⁰S-1
 Lab Sample Number : 824680-002
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 8/20/02
 Collection Date : 8/8/02
 Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES		Prep Method: SW846 3545				Prep Date: 8/9/02	Analyst: RJN	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 17	17	54		ug/kg		8/12/02	SW846 8270C
Acenaphthylene	< 13	13	41		ug/kg		8/12/02	SW846 8270C
Anthracene	< 12	12	38		ug/kg		8/12/02	SW846 8270C
Benzo(a)anthracene	< 14	14	45		ug/kg		8/12/02	SW846 8270C
Benzo(a)pyrene	< 13	13	41		ug/kg		8/12/02	SW846 8270C
Benzo(b)fluoranthene	< 11	11	35		ug/kg		8/12/02	SW846 8270C
Benzo(g,h,i)perylene	< 12	12	38		ug/kg		8/12/02	SW846 8270C
Benzo(k)fluoranthene	< 13	13	41		ug/kg		8/12/02	SW846 8270C
Chrysene	< 14	14	45		ug/kg		8/12/02	SW846 8270C
Dibenzo(a,h)anthracene	< 11	11	35		ug/kg		8/12/02	SW846 8270C
Fluoranthene	< 11	11	35		ug/kg		8/12/02	SW846 8270C
Fluorene	< 13	13	41		ug/kg		8/12/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 12	12	38		ug/kg		8/12/02	SW846 8270C
1-Methylnaphthalene	< 14	14	45		ug/kg		8/12/02	SW846 8270C
2-Methylnaphthalene	< 12	12	38		ug/kg		8/12/02	SW846 8270C
Naphthalene	< 17	17	54		ug/kg		8/12/02	SW846 8270C
Phenanthrene	< 11	11	35		ug/kg		8/12/02	SW846 8270C
Pyrene	< 12	12	38		ug/kg		8/12/02	SW846 8270C
Nitrobenzene-d5	81				%Recov		8/12/02	SW846 8270C
2-Fluorobiphenyl	72				%Recov		8/12/02	SW846 8270C
Terphenyl-d14	71				%Recov		8/12/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : B-⁴¹25 S-1

Lab Sample Number : 824680-003

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 8/20/02

Collection Date : 8/8/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	92.8				%		8/8/02	SM 2540G M	SM 2540G M	JI

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 8/12/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 100	100	240		ug/kg		8/12/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : B-⁴¹~~25~~S-1

Lab Sample Number : 824680-003

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 8/20/02

Collection Date : 8/8/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Naphthalene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	& 8/12/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Toluene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg	8/12/02	SW846 8260B
4-Bromofluorobenzene	92			%Recov	8/12/02	SW846 8260B
Dibromofluoromethane	89			%Recov	8/12/02	SW846 8260B
Toluene-d8	92			%Recov	8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : B-⁴¹~~25~~S-1
Lab Sample Number : 824680-003
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 8/20/02
Collection Date : 8/8/02
Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 8/14/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 18	18	57		ug/kg		8/15/02	SW846 8270C
Acenaphthylene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Anthracene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Benzo(a)anthracene	< 15	15	48		ug/kg		8/15/02	SW846 8270C
Benzo(a)pyrene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Benzo(b)fluoranthene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Benzo(g,h,i)perylene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Benzo(k)fluoranthene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Chrysene	< 15	15	48		ug/kg		8/15/02	SW846 8270C
Dibenzo(a,h)anthracene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Fluoranthene	< 11	11	35		ug/kg		8/15/02	SW846 8270C
Fluorene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
1-Methylnaphthalene	< 15	15	48		ug/kg		8/15/02	SW846 8270C
2-Methylnaphthalene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Naphthalene	< 18	18	57		ug/kg		8/15/02	SW846 8270C
Phenanthrene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Pyrene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Nitrobenzene-d5	51				%Recov		8/15/02	SW846 8270C
2-Fluorobiphenyl	56				%Recov		8/15/02	SW846 8270C
Terphenyl-d14	58				%Recov		8/15/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : B-36 S-1
Lab Sample Number : 824680-004
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 8/20/02
Collection Date : 8/8/02
Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	89.9				%		8/8/02	SM 2540G M	SM 2540G M	Jl

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B Prep Date: 8/12/02 Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 100	100	240		ug/kg		8/12/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : B-36 S-1

Lab Sample Number : 824680-004

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 8/20/02

Collection Date : 8/8/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Naphthalene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	&	8/12/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Toluene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg		8/12/02	SW846 8260B
4-Bromofluorobenzene	89			%Recov		8/12/02	SW846 8260B
Dibromofluoromethane	85			%Recov		8/12/02	SW846 8260B
Toluene-d8	89			%Recov		8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : B-36 S-1
Lab Sample Number : 824680-004
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 8/20/02
Collection Date : 8/8/02
Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 8/14/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 18	18	57		ug/kg		8/15/02	SW846 8270C
Acenaphthylene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Anthracene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Benzo(a)anthracene	< 15	15	48		ug/kg		8/15/02	SW846 8270C
Benzo(a)pyrene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Benzo(b)fluoranthene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Benzo(g,h,i)perylene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Benzo(k)fluoranthene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Chrysene	< 15	15	48		ug/kg		8/15/02	SW846 8270C
Dibenzo(a,h)anthracene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Fluoranthene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Fluorene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
1-Methylnaphthalene	< 16	16	51		ug/kg		8/15/02	SW846 8270C
2-Methylnaphthalene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Naphthalene	< 19	19	61		ug/kg		8/15/02	SW846 8270C
Phenanthrene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Pyrene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Nitrobenzene-d5	55				%Recov		8/15/02	SW846 8270C
2-Fluorobiphenyl	67				%Recov		8/15/02	SW846 8270C
Terphenyl-d14	82				%Recov		8/15/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : B-37 S-1

Lab Sample Number : 824680-005

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 8/20/02

Collection Date : 8/8/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	95.8				%		8/8/02	SM 2540G M	SM 2540G M	JL

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 8/12/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Bromobenzene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Bromochloromethane	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Bromodichloromethane	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Bromoform	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Bromomethane	< 250	250	600		ug/kg		8/13/02	SW846 8260B
s-Butylbenzene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
t-Butylbenzene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
n-Butylbenzene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Carbon tetrachloride	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Chloroform	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Chlorobenzene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Chlorodibromomethane	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Chloroethane	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Chloromethane	< 250	250	600		ug/kg		8/13/02	SW846 8260B
2-Chlorotoluene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
4-Chlorotoluene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1000	1000	2400		ug/kg		8/13/02	SW846 8260B
1,2-Dibromoethane	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Dibromomethane	< 250	250	600		ug/kg		8/13/02	SW846 8260B
1,3-Dichlorobenzene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
1,4-Dichlorobenzene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
1,2-Dichloroethane	< 250	250	600		ug/kg		8/13/02	SW846 8260B
1,2-Dichlorobenzene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
1,1-Dichloroethene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
cis-1,2-Dichloroethene	< 250	250	600		ug/kg		8/13/02	SW846 8260B
Dichlorodifluoromethane	< 250	250	600		ug/kg		8/13/02	SW846 8260B
trans-1,2-Dichloroethene	< 250	250	600		ug/kg		8/13/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : B-37 S-1

Lab Sample Number : 824680-005

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 8/20/02

Collection Date : 8/8/02

Matrix Type : SOIL

1,2-Dichloropropane	< 250	250	600	ug/kg		8/13/02	SW846 8260B
1,1-Dichloroethane	< 250	250	600	ug/kg		8/13/02	SW846 8260B
1,3-Dichloropropane	< 250	250	600	ug/kg		8/13/02	SW846 8260B
2,2-Dichloropropane	< 250	250	600	ug/kg		8/13/02	SW846 8260B
1,1-Dichloropropene	< 250	250	600	ug/kg		8/13/02	SW846 8260B
cis-1,3-Dichloropropene	< 250	250	600	ug/kg		8/13/02	SW846 8260B
trans-1,3-Dichloropropene	< 250	250	600	ug/kg		8/13/02	SW846 8260B
Diisopropyl ether	< 250	250	600	ug/kg		8/13/02	SW846 8260B
Ethylbenzene	1100	260	620	ug/kg		8/13/02	SW846 8260B
Fluorotrichloromethane	< 250	250	600	ug/kg		8/13/02	SW846 8260B
Hexachlorobutadiene	< 250	250	600	ug/kg		8/13/02	SW846 8260B
Isopropylbenzene	540	260	620	ug/kg	Q	8/13/02	SW846 8260B
p-Isopropyltoluene	< 250	250	600	ug/kg		8/13/02	SW846 8260B
Methylene chloride	< 250	250	600	ug/kg		8/13/02	SW846 8260B
Methyl-tert-butyl-ether	< 250	250	600	ug/kg		8/13/02	SW846 8260B
Naphthalene	17000	260	620	ug/kg		8/13/02	SW846 8260B
n-Propylbenzene	990	260	620	ug/kg		8/13/02	SW846 8260B
Styrene	< 250	250	600	ug/kg	&	8/13/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 250	250	600	ug/kg		8/13/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 250	250	600	ug/kg		8/13/02	SW846 8260B
Tetrachloroethene	< 250	250	600	ug/kg		8/13/02	SW846 8260B
Toluene	550	260	620	ug/kg	Q	8/13/02	SW846 8260B
1,2,3-Trichlorobenzene	< 250	250	600	ug/kg		8/13/02	SW846 8260B
1,2,4-Trichlorobenzene	< 250	250	600	ug/kg		8/13/02	SW846 8260B
1,1,1-Trichloroethane	< 250	250	600	ug/kg		8/13/02	SW846 8260B
1,1,2-Trichloroethane	< 250	250	600	ug/kg		8/13/02	SW846 8260B
1,2,4-Trimethylbenzene	15000	260	620	ug/kg		8/13/02	SW846 8260B
Trichloroethene	< 250	250	600	ug/kg		8/13/02	SW846 8260B
1,2,3-Trichloropropane	< 250	250	600	ug/kg		8/13/02	SW846 8260B
1,3,5-Trimethylbenzene	6700	260	620	ug/kg		8/13/02	SW846 8260B
Vinyl chloride	< 250	250	600	ug/kg		8/13/02	SW846 8260B
Xylenes, -m, -p	7300	260	620	ug/kg		8/13/02	SW846 8260B
Xylene, -o	5000	260	620	ug/kg		8/13/02	SW846 8260B
4-Bromofluorobenzene	92			%Recov		8/13/02	SW846 8260B
Dibromofluoromethane	75			%Recov		8/13/02	SW846 8260B
Toluene-d8	94			%Recov		8/13/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : B-37 S-1
Lab Sample Number : 824680-005
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 8/20/02
Collection Date : 8/8/02
Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 8/14/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	3700	2400	7600		ug/kg	Q	8/16/02	SW846 8270C
Acenaphthylene	< 1800	1800	5700		ug/kg		8/16/02	SW846 8270C
Anthracene	< 1800	1800	5700		ug/kg		8/16/02	SW846 8270C
Benzo(a)anthracene	< 2000	2000	6400		ug/kg		8/16/02	SW846 8270C
Benzo(a)pyrene	< 1800	1800	5700		ug/kg		8/16/02	SW846 8270C
Benzo(b)fluoranthene	< 1600	1600	5100		ug/kg		8/16/02	SW846 8270C
Benzo(g,h,i)perylene	< 1700	1700	5400		ug/kg		8/16/02	SW846 8270C
Benzo(k)fluoranthene	< 1900	1900	6100		ug/kg		8/16/02	SW846 8270C
Chrysene	< 2000	2000	6400		ug/kg		8/16/02	SW846 8270C
Dibenzo(a,h)anthracene	< 1600	1600	5100		ug/kg		8/16/02	SW846 8270C
Fluoranthene	< 1500	1500	4800		ug/kg		8/16/02	SW846 8270C
Fluorene	6900	1800	5700		ug/kg		8/16/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 1700	1700	5400		ug/kg		8/16/02	SW846 8270C
1-Methylnaphthalene	47000	2000	6400		ug/kg		8/16/02	SW846 8270C
2-Methylnaphthalene	71000	1800	5700		ug/kg		8/16/02	SW846 8270C
Naphthalene	9600	2500	8000		ug/kg		8/16/02	SW846 8270C
Phenanthrene	22000	1600	5100		ug/kg		8/16/02	SW846 8270C
Pyrene	< 1800	1800	5700		ug/kg		8/16/02	SW846 8270C
Nitrobenzene-d5	< NA				%Recov	D	8/16/02	SW846 8270C
2-Fluorobiphenyl	< NA				%Recov	D	8/16/02	SW846 8270C
Terphenyl-d14	< NA				%Recov	D	8/16/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : B-38 S-1
Lab Sample Number : 824680-006
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 8/20/02
Collection Date : 8/8/02
Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	94.5				%		8/8/02	SM 2540G M	SM 2540G M	JJ

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 8/12/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 100	100	240		ug/kg		8/12/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : B-38 S-1

Lab Sample Number : 824680-006

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 8/20/02

Collection Date : 8/8/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Naphthalene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Toluene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg	8/12/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/kg	8/12/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg	8/12/02	SW846 8260B
4-Bromofluorobenzene	89			%Recov	8/12/02	SW846 8260B
Dibromofluoromethane	74			%Recov	8/12/02	SW846 8260B
Toluene-d8	88			%Recov	8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : B-38 S-1
Lab Sample Number : 824680-006
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 8/20/02
Collection Date : 8/8/02
Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 8/14/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 17	17	54		ug/kg		8/15/02	SW846 8270C
Acenaphthylene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Anthracene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Benzo(a)anthracene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Benzo(a)pyrene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Benzo(b)fluoranthene	13	12	38		ug/kg	Q	8/15/02	SW846 8270C
Benzo(g,h,i)perylene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Benzo(k)fluoranthene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Chrysene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Dibenzo(a,h)anthracene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Fluoranthene	16	11	35		ug/kg	Q	8/15/02	SW846 8270C
Fluorene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	12	12	38		ug/kg	Q	8/15/02	SW846 8270C
1-Methylnaphthalene	< 15	15	48		ug/kg		8/15/02	SW846 8270C
2-Methylnaphthalene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Naphthalene	< 18	18	57		ug/kg		8/15/02	SW846 8270C
Phenanthrene	12	12	38		ug/kg	Q	8/15/02	SW846 8270C
Pyrene	19	13	41		ug/kg	Q	8/15/02	SW846 8270C
Nitrobenzene-d5	66				%Recov		8/15/02	SW846 8270C
2-Fluorobiphenyl	60				%Recov		8/15/02	SW846 8270C
Terphenyl-d14	71				%Recov		8/15/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : B-39 S-1
Lab Sample Number : 824680-007
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 8/20/02
Collection Date : 8/8/02
Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	89.9				%		8/8/02	SM 2540G M	SM 2540G M	JI

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 8/12/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 100	100	240		ug/kg		8/12/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		8/12/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : B-39 S-1

Lab Sample Number : 824680-007

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 8/20/02

Collection Date : 8/8/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Naphthalene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	&	8/12/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Toluene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg		8/12/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg		8/12/02	SW846 8260B
Xylenes, -m, -p	29	28	67	ug/kg	Q	8/12/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg		8/12/02	SW846 8260B
4-Bromofluorobenzene	91			%Recov		8/12/02	SW846 8260B
Dibromofluoromethane	73			%Recov		8/12/02	SW846 8260B
Toluene-d8	93			%Recov		8/12/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : B-39 S-1
 Lab Sample Number : 824680-007
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 8/20/02
 Collection Date : 8/8/02
 Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES		Prep Method: SW846 3545				Prep Date: 8/14/02	Analyst: RJN	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 18	18	57		ug/kg		8/15/02	SW846 8270C
Acenaphthylene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Anthracene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Benzo(a)anthracene	< 15	15	48		ug/kg		8/15/02	SW846 8270C
Benzo(a)pyrene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Benzo(b)fluoranthene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Benzo(g,h,i)perylene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Benzo(k)fluoranthene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Chrysene	< 15	15	48		ug/kg		8/15/02	SW846 8270C
Dibenzo(a,h)anthracene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Fluoranthene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Fluorene	< 14	14	45		ug/kg		8/15/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
1-Methylnaphthalene	< 16	16	51		ug/kg		8/15/02	SW846 8270C
2-Methylnaphthalene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Naphthalene	< 19	19	61		ug/kg		8/15/02	SW846 8270C
Phenanthrene	< 12	12	38		ug/kg		8/15/02	SW846 8270C
Pyrene	< 13	13	41		ug/kg		8/15/02	SW846 8270C
Nitrobenzene-d5	53				%Recov		8/15/02	SW846 8270C
2-Fluorobiphenyl	58				%Recov		8/15/02	SW846 8270C
Terphenyl-d14	68				%Recov		8/15/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : MEOH BLANK
 Lab Sample Number : 824680-008
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 8/20/02
 Collection Date : 8/8/02
 Matrix Type : METHANOL

Organic Results

EPA 8260 VOLATILE LIST - METHANOL

Prep Method: SW846 5030B

Prep Date: 8/12/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 25	25	60		ug/L		8/12/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/L		8/12/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/L		8/12/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/L		8/12/02	SW846 8260B
Bromoform	< 25	25	60		ug/L		8/12/02	SW846 8260B
Bromomethane	< 25	25	60		ug/L		8/12/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/L		8/12/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/L		8/12/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/L		8/12/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/L		8/12/02	SW846 8260B
Chloroform	< 25	25	60		ug/L		8/12/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/L		8/12/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/L		8/12/02	SW846 8260B
Chloroethane	< 25	25	60		ug/L		8/12/02	SW846 8260B
Chloromethane	< 25	25	60		ug/L		8/12/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/L		8/12/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/L		8/12/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 100	100	240		ug/L		8/12/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/L		8/12/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/L		8/12/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/L		8/12/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/L		8/12/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/L		8/12/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/L		8/12/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/L		8/12/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/L		8/12/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/L		8/12/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/L		8/12/02	SW846 8260B
1,2-Dichloropropane	< 25	25	60		ug/L		8/12/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60		ug/L		8/12/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60		ug/L		8/12/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60		ug/L		8/12/02	SW846 8260B

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : MEOH BLANK

Lab Sample Number : 824680-008

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 8/20/02

Collection Date : 8/8/02

Matrix Type : METHANOL

1,1-Dichloropropene	< 25	25	60	ug/L		8/12/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/L		8/12/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/L		8/12/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/L		8/12/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/L		8/12/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/L		8/12/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/L		8/12/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/L		8/12/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/L		8/12/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/L		8/12/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/L		8/12/02	SW846 8260B
Naphthalene	< 25	25	60	ug/L		8/12/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/L		8/12/02	SW846 8260B
Styrene	< 25	25	60	ug/L	&	8/12/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/L		8/12/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/L		8/12/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/L		8/12/02	SW846 8260B
Toluene	< 25	25	60	ug/L		8/12/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/L		8/12/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/L		8/12/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/L		8/12/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/L		8/12/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/L		8/12/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/L		8/12/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/L		8/12/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/L		8/12/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/L		8/12/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/L		8/12/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/L		8/12/02	SW846 8260B
4-Bromofluorobenzene	100			%Recov		8/12/02	SW846 8260B
Dibromofluoromethane	76			%Recov		8/12/02	SW846 8260B
Toluene-d8	79			%Recov		8/12/02	SW846 8260B

CHAIN OF CUSTODY RECORD

8/24/02

No 31950



Contact Person Bob Mottz
 Phone No. 406-3147 Office GREEN BAY
 Project No. 27380 W PO No. _____
 Project Name _____

Special Handling Request	
<input type="checkbox"/>	Rush
<input checked="" type="checkbox"/>	Verbal
<input type="checkbox"/>	Other

RECORD NUMBER _____ THROUGH _____

Laboratory Enchem
 Contact Person _____
 Phone No. _____
 Results Due _____

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data			Analysis Request	Comments on Sample (Include Major Contaminants)	
							Y	N	PID/FID		PH			Special Cond.
									Ambient	Sample				
35														
MW-22 5-2 2.3 8/2/02			X		3	Soil						VOCs (8021) 001 PAHs (8310)	1-8oz, 1-2oz w/MeOH, 1-4oz.	
B-24 405-1			X									002		
B-25 45-1			X									003		
B-36 5-1			X									004		
B-37 5-1			X									005		
B-38 5-1			X									006		
B-39 5-1	↓		X		↓	↓						007	↓	
MeOH BLK												008	1-40ml MeOH BLK received by lab, added to COC	

Collected by: <u>Rosey Mottz</u>	Date: <u>8/2/02</u>	Time: _____	Delivery by: <u>Rosey Mottz</u>	Date: <u>8/2/02</u>	Time: <u>5:10</u>
Received by: <u>J. S. Manning</u>	Date: <u>8/2/02</u>	Time: <u>17:10</u>	Relinquished by: _____	Date: _____	Time: _____
Received by: _____	Date: _____	Time: _____	Relinquished by: _____	Date: _____	Time: _____
Received by: _____	Date: _____	Time: _____	Relinquished by: _____	Date: _____	Time: _____
Received for lab by: _____	Date: _____	Time: _____	Relinquished by: _____	Date: _____	Time: _____

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

Final Disposition: _____	Comments (Weather Conditions, Precautions, Hazards): <u>POI</u>
--------------------------	---

Distribution: Original and Green - Laboratory Yellow - As needed Pink - Transporter Goldenrod - STS Project File
 Instructions to Laboratory: Forward completed original to STS with analytical results. Retain green copy.

6/99cp10k



Corporate Office & Laboratory
1241 Bellevue Street, Suite 9 • Green Bay, WI 54302
920-469-2436 • FAX: 920-469-8827 • 800-7-ENCHEM
www.enchem.com

- Analytical Report -

Project Name :

Project Number : 27380W

Client: STS CONSULTANTS

WI DNR LAB ID : 405132750

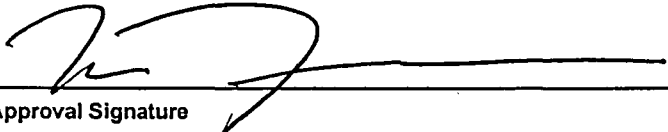
Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
828875-001	ATFC-2S	11/21/02			
828875-002	ATFC-2D	11/21/02			
828875-003	ATFC-3	11/21/02			
828875-004	ATFC-29	11/21/02			
828875-005	ATFC-30	11/21/02			
828875-006	ATFC-31	11/21/02			
828875-007	ATFC-27	11/21/02			
828875-008	ATFC-32S	11/21/02			
828875-009	ATFC-32D	11/21/02			
828875-010	ATFC-33S	11/21/02			
828875-011	ATFC-33D	11/21/02			
828875-012	ATFC-34S	11/21/02			
828875-013	ATFC-34D	11/21/02			
828875-014	ATFC-35	11/21/02			
828875-015	TRIP BLANK	11/21/02			

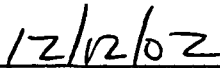
Please visit our Internet homepage at: www.enchem.com

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.


Approval Signature


Date

En Chem, Inc. Cooler Receipt Log

Batch No. 828875

Project Name or ID STS

No. of Coolers: 1 Temps: ROI

A. Receipt Phase: Date cooler was opened: 11/22/02 By: JR

- 1: Were samples received on ice? (Must be ≤ 6 C).....YES NO²
- 2: Was there a Temperature Blank?.....YES NO
- 3: Were custody seals present and intact? (Record on COC).....YES NO
- 4: Are COC documents present?.....YES NO²
- 5: Does this Project require quick turn around analysis?.....YES NO
- 6: Is there any sub-work?.....YES NO
- 7: Are there any short hold time tests?.....YES NO JR 11/22
- 8: Are any samples nearing expiration of hold-time? (Within 2 days).....YES¹ NO Contacted by/Who _____
- 9: Do any samples need to be Filtered or Preserved in the lab?.....YES¹ NO Contacted by/Who _____

B. Check-in Phase: Date samples were Checked-In: 11/22/02 By: JR

- 1: Were all sample containers listed on the COC received and intact?.....YES NO² NA
- 2: Sign the COC as received by En Chem. Completed.....YES NO
- 3: Do sample labels match the COC?YES NO²
- 4: Check sample pH of preserved samples. (Not VOCs) Completed.....YES NO NA
- 5: Do samples have correct chemical preservation?.....YES NO² NA
- 6: Are dissolved parameters field filtered?.....YES NO² NA
- 7: Are sample volumes adequate for tests requested?YES NO²
- 8: Are VOC samples free of bubbles >6mmYES NO² NA
- 9: Enter samples into logbook. Completed.....YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed.....YES NO NA
- 12: Start Nonconformance form.YES NO NA
- 13: Initiate Subcontracting procedure. Completed.....YES NO NA
- 14: Check laboratory sample number on all containers and COC.JR YES NO NA

Short Hold-time tests:

48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants Sulfite En Core Preservation Color	7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids Aqueous Extractable Organics- ALL Unpreserved VOC's Ash	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
--	---	--

En Chem Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
800-7-ENCHEM
Fax: 920-469-8827

Lab#:	TestGroupID:	Comment:
828875-002 ATFC-2D	PAH+-W	B - Naphthalene present in blank at 0.053ug/l.
828875-007 ATFC-27	PAH+-W	H - Extraction performed 8 days past holding time. This was due to the sample being investigated as a free product.
	8260+-W	Sample analyzed from a vial with headspace.
828875-008 ATFC-32S	8260+-W	e - Analyte concentration exceeds calibration range. Unable to reanalyze at a higher dilution due to a lack of sample.
	PAH+-W	H - Extraction performed 8 days past holding time. This was due to the sample being investigated as a free product.
	8260+-W	Sample analyzed from a vial with headspace.
828875-010 ATFC-33S	8260+-W	Unable to reanalyze at a lower dilution due to a lack of sample.
	PAH+-W	H - Extraction performed 8 days past holding time. This was due to the sample being investigated as a free product.
	8260+-W	Sample analyzed from a vial with headspace.

Organic Data Qualifiers

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit.
- D Analyte value from diluted analysis, or surrogate result not applicable due to sample dilution.
- E Analyte concentration exceeds calibration range.
- F Surrogate results outside control criteria.
- H Extraction or analysis performed past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection limit may be elevated due to the presence of an unrequested analyte.
- N Spiked sample recovery not within control limits.
- P The relative percent difference between the two columns for detected concentrations was greater than 40%.
- Q The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- S The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
- U The analyte was not detected above the reporting limit.
- W Sample received with headspace.
- X See Sample Narrative.
- & Laboratory Control Spike recovery not within control limits.
- * Duplicate analyses not within control limits.
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-2S
Lab Sample Number : 828875-001
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 11/27/02

Analyst: JSF

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	17000	50	160		ug/L		11/27/02	SW846 8260B
Bromobenzene	< 150	150	480		ug/L		11/27/02	SW846 8260B
Bromochloromethane	< 130	130	410		ug/L		11/27/02	SW846 8260B
Bromodichloromethane	< 46	46	150		ug/L		11/27/02	SW846 8260B
Bromoform	< 90	90	290		ug/L		11/27/02	SW846 8260B
Bromomethane	< 170	170	540		ug/L		11/27/02	SW846 8260B
s-Butylbenzene	< 120	120	380		ug/L		11/27/02	SW846 8260B
t-Butylbenzene	< 190	190	610		ug/L		11/27/02	SW846 8260B
n-Butylbenzene	< 130	130	410		ug/L		11/27/02	SW846 8260B
Carbon tetrachloride	< 94	94	300		ug/L		11/27/02	SW846 8260B
Chloroform	< 90	90	290		ug/L		11/27/02	SW846 8260B
Chlorobenzene	< 120	120	380		ug/L		11/27/02	SW846 8260B
Chlorodibromomethane	< 170	170	540		ug/L		11/27/02	SW846 8260B
Chloroethane	< 170	170	540		ug/L		11/27/02	SW846 8260B
Chloromethane	< 54	54	170		ug/L		11/27/02	SW846 8260B
2-Chlorotoluene	< 130	130	410		ug/L		11/27/02	SW846 8260B
4-Chlorotoluene	< 180	180	570		ug/L		11/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 180	180	570		ug/L		11/27/02	SW846 8260B
1,2-Dibromoethane	< 130	130	410		ug/L		11/27/02	SW846 8260B
Dibromomethane	< 150	150	480		ug/L		11/27/02	SW846 8260B
1,3-Dichlorobenzene	< 120	120	380		ug/L		11/27/02	SW846 8260B
1,4-Dichlorobenzene	< 130	130	410		ug/L		11/27/02	SW846 8260B
1,2-Dichloroethane	< 110	110	350		ug/L		11/27/02	SW846 8260B
1,2-Dichlorobenzene	< 140	140	450		ug/L		11/27/02	SW846 8260B
1,1-Dichloroethene	< 110	110	350		ug/L		11/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 160	160	510		ug/L		11/27/02	SW846 8260B
Dichlorodifluoromethane	< 110	110	350		ug/L		11/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 160	160	510		ug/L		11/27/02	SW846 8260B
1,2-Dichloropropane	< 78	78	250		ug/L		11/27/02	SW846 8260B
1,1-Dichloroethane	< 170	170	540		ug/L		11/27/02	SW846 8260B
1,3-Dichloropropane	< 120	120	380		ug/L		11/27/02	SW846 8260B
2,2-Dichloropropane	< 200	200	640		ug/L		11/27/02	SW846 8260B
1,1-Dichloropropene	< 160	160	510		ug/L		11/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 110	110	350		ug/L		11/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 130	130	410		ug/L		11/27/02	SW846 8260B
Diisopropyl ether	< 120	120	380		ug/L		11/27/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-2S
Lab Sample Number : 828875-001
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Ethylbenzene	1600	110	350	ug/L		11/27/02	SW846 8260B
Fluorotrichloromethane	< 170	170	540	ug/L		11/27/02	SW846 8260B
Hexachlorobutadiene	< 190	190	610	ug/L		11/27/02	SW846 8260B
Isopropylbenzene	< 130	130	410	ug/L		11/27/02	SW846 8260B
p-Isopropyltoluene	< 120	120	380	ug/L		11/27/02	SW846 8260B
Methylene chloride	< 94	94	300	ug/L		11/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 170	170	540	ug/L		11/27/02	SW846 8260B
Naphthalene	230	130	410	ug/L	Q	11/27/02	SW846 8260B
n-Propylbenzene	< 190	190	610	ug/L		11/27/02	SW846 8260B
Styrene	< 120	120	380	ug/L	&	11/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 150	150	480	ug/L		11/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 190	190	610	ug/L		11/27/02	SW846 8260B
Tetrachloroethene	< 130	130	410	ug/L		11/27/02	SW846 8260B
Toluene	24000	170	540	ug/L		11/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 150	150	480	ug/L		11/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 110	110	350	ug/L		11/27/02	SW846 8260B
1,1,1-Trichloroethane	< 130	130	410	ug/L		11/27/02	SW846 8260B
1,1,2-Trichloroethane	< 100	100	320	ug/L		11/27/02	SW846 8260B
1,2,4-Trimethylbenzene	1000	140	450	ug/L		11/27/02	SW846 8260B
Trichloroethene	< 78	78	250	ug/L		11/27/02	SW846 8260B
1,2,3-Trichloropropane	< 180	180	570	ug/L		11/27/02	SW846 8260B
1,3,5-Trimethylbenzene	300	130	410	ug/L	Q	11/27/02	SW846 8260B
Vinyl chloride	< 22	22	70	ug/L		11/27/02	SW846 8260B
Xylenes, -m, -p	4900	220	700	ug/L		11/27/02	SW846 8260B
Xylene, -o	2000	150	480	ug/L		11/27/02	SW846 8260B
4-Bromofluorobenzene	108			%Recov		11/27/02	SW846 8260B
Dibromofluoromethane	133			%Recov		11/27/02	SW846 8260B
Toluene-d8	126			%Recov		11/27/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 11/26/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	< NA				%Recov	D	11/27/02	SW846 8270C
Nitrobenzene-d5	< NA				%Recov	D	11/27/02	SW846 8270C
2-Fluorobiphenyl	< NA				%Recov	D	11/27/02	SW846 8270C
Acenaphthene	< 9.0	9.0	29		ug/L		11/27/02	SW846 8270C
Acenaphthylene	< 9.5	9.5	30		ug/L		11/27/02	SW846 8270C
Anthracene	< 10	10	32		ug/L		11/27/02	SW846 8270C
Benzo(a)anthracene	< 6.0	6.0	19		ug/L		11/27/02	SW846 8270C
Benzo(a)pyrene	< 7.0	7.0	22		ug/L		11/27/02	SW846 8270C
Benzo(b)fluoranthene	< 6.5	6.5	21		ug/L		11/27/02	SW846 8270C

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-2S
 Lab Sample Number : 828875-001
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Benzo(g,h,i)perylene	< 8.0	8.0	25	ug/L	11/27/02	SW846 8270C
Benzo(k)fluoranthene	< 9.5	9.5	30	ug/L	11/27/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 10	10	32	ug/L	11/27/02	SW846 8270C
Chrysene	< 7.0	7.0	22	ug/L	11/27/02	SW846 8270C
Dibenzo(a,h)anthracene	< 8.0	8.0	25	ug/L	11/27/02	SW846 8270C
Fluoranthene	< 6.5	6.5	21	ug/L	11/27/02	SW846 8270C
Fluorene	< 8.5	8.5	27	ug/L	11/27/02	SW846 8270C
2-Methylnaphthalene	97	8.5	27	ug/L	11/27/02	SW846 8270C
1-Methylnaphthalene	49	8.5	27	ug/L	11/27/02	SW846 8270C
Naphthalene	200	12	38	ug/L	11/27/02	SW846 8270C
Phenanthrene	< 8.0	8.0	25	ug/L	11/27/02	SW846 8270C
Pyrene	< 8.5	8.5	27	ug/L	11/27/02	SW846 8270C

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-2D
 Lab Sample Number : 828875-002
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER Prep Method: SW846 5030B Prep Date: 11/26/02 Analyst: JSF

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	1.6	0.25	0.80		ug/L		11/26/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		11/26/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		11/26/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		11/26/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		11/26/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		11/26/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		11/26/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		11/26/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		11/26/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		11/26/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		11/26/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		11/26/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloropropene	< 0.79	0.79	2.5		ug/L		11/26/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0		ug/L		11/26/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9		ug/L		11/26/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-2D
Lab Sample Number : 828875-002
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Ethylbenzene	< 0.53	0.53	1.7	ug/L		11/26/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		11/26/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		11/26/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		11/26/02	SW846 8260B
Methylene chloride	0.65	0.47	1.5	ug/L	Q	11/26/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		11/26/02	SW846 8260B
Naphthalene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	11/26/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
Toluene	< 0.84	0.84	2.7	ug/L		11/26/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		11/26/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		11/26/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		11/26/02	SW846 8260B
1,2,4-Trimethylbenzene	< 0.69	0.69	2.2	ug/L		11/26/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		11/26/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		11/26/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		11/26/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		11/26/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		11/26/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		11/26/02	SW846 8260B
4-Bromofluorobenzene	106			%Recov		11/26/02	SW846 8260B
Dibromofluoromethane	126			%Recov		11/26/02	SW846 8260B
Toluene-d8	128			%Recov		11/26/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 11/26/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	92				%Recov		11/27/02	SW846 8270C
Nitrobenzene-d5	86				%Recov		11/27/02	SW846 8270C
2-Fluorobiphenyl	78				%Recov		11/27/02	SW846 8270C
Acenaphthene	< 0.018	0.018	0.057		ug/L		11/27/02	SW846 8270C
Acenaphthylene	< 0.019	0.019	0.061		ug/L		11/27/02	SW846 8270C
Anthracene	< 0.020	0.020	0.064		ug/L		11/27/02	SW846 8270C
Benzo(a)anthracene	< 0.012	0.012	0.038		ug/L		11/27/02	SW846 8270C
Benzo(a)pyrene	< 0.014	0.014	0.045		ug/L		11/27/02	SW846 8270C
Benzo(b)fluoranthene	< 0.013	0.013	0.041		ug/L		11/27/02	SW846 8270C

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-2D
 Lab Sample Number : 828875-002
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Benzo(g,h,i)perylene	< 0.016	0.016	0.051	ug/L		11/27/02	SW846 8270C
Benzo(k)fluoranthene	< 0.019	0.019	0.061	ug/L		11/27/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.021	0.021	0.067	ug/L		11/27/02	SW846 8270C
Chrysene	< 0.014	0.014	0.045	ug/L		11/27/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.016	0.016	0.051	ug/L		11/27/02	SW846 8270C
Fluoranthene	< 0.013	0.013	0.041	ug/L		11/27/02	SW846 8270C
Fluorene	< 0.017	0.017	0.054	ug/L		11/27/02	SW846 8270C
2-Methylnaphthalene	0.33	0.017	0.054	ug/L		11/27/02	SW846 8270C
1-Methylnaphthalene	0.18	0.017	0.054	ug/L		11/27/02	SW846 8270C
Naphthalene	0.36	0.024	0.076	ug/L	B	11/27/02	SW846 8270C
Phenanthrene	< 0.016	0.016	0.051	ug/L		11/27/02	SW846 8270C
Pyrene	< 0.017	0.017	0.054	ug/L		11/27/02	SW846 8270C

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-3
Lab Sample Number : 828875-003
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 11/26/02

Analyst: JSF

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	190	0.25	0.80		ug/L		11/26/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		11/26/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		11/26/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		11/26/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		11/26/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		11/26/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		11/26/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		11/26/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		11/26/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		11/26/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		11/26/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		11/26/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloropropene	< 0.79	0.79	2.5		ug/L		11/26/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0		ug/L		11/26/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9		ug/L		11/26/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-3
Lab Sample Number : 828875-003
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Ethylbenzene	120	0.53	1.7	ug/L		11/26/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		11/26/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Isopropylbenzene	4.5	0.66	2.1	ug/L		11/26/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		11/26/02	SW846 8260B
Methylene chloride	< 0.47	0.47	1.5	ug/L		11/26/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		11/26/02	SW846 8260B
Naphthalene	14	0.63	2.0	ug/L		11/26/02	SW846 8260B
n-Propylbenzene	13	0.95	3.0	ug/L		11/26/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	11/26/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
Toluene	97	0.84	2.7	ug/L		11/26/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		11/26/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		11/26/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		11/26/02	SW846 8260B
1,2,4-Trimethylbenzene	110	0.69	2.2	ug/L		11/26/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		11/26/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		11/26/02	SW846 8260B
1,3,5-Trimethylbenzene	45	0.64	2.0	ug/L		11/26/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		11/26/02	SW846 8260B
Xylenes, -m, -p	320	1.1	3.5	ug/L		11/26/02	SW846 8260B
Xylene, -o	120	0.73	2.3	ug/L		11/26/02	SW846 8260B
4-Bromofluorobenzene	110			%Recov		11/26/02	SW846 8260B
Dibromofluoromethane	122			%Recov		11/26/02	SW846 8260B
Toluene-d8	129			%Recov		11/26/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 11/27/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	93				%Recov		12/02/02	SW846 8270C
Nitrobenzene-d5	124				%Recov		12/02/02	SW846 8270C
2-Fluorobiphenyl	114				%Recov		12/02/02	SW846 8270C
Acenaphthene	< 0.90	0.90	2.9		ug/L		12/02/02	SW846 8270C
Acenaphthylene	< 0.95	0.95	3.0		ug/L		12/02/02	SW846 8270C
Anthracene	< 1.0	1.0	3.2		ug/L		12/02/02	SW846 8270C
Benzo(a)anthracene	< 0.60	0.60	1.9		ug/L		12/02/02	SW846 8270C
Benzo(a)pyrene	< 0.70	0.70	2.2		ug/L		12/02/02	SW846 8270C
Benzo(b)fluoranthene	< 0.65	0.65	2.1		ug/L		12/02/02	SW846 8270C

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-3
 Lab Sample Number : 828875-003
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Benzo(g,h,i)perylene	< 0.80	0.80	2.5	ug/L	12/02/02	SW846 8270C
Benzo(k)fluoranthene	< 0.95	0.95	3.0	ug/L	12/02/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 1.1	1.1	3.5	ug/L	12/02/02	SW846 8270C
Chrysene	< 0.70	0.70	2.2	ug/L	12/02/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.80	0.80	2.5	ug/L	12/02/02	SW846 8270C
Fluoranthene	< 0.65	0.65	2.1	ug/L	12/02/02	SW846 8270C
Fluorene	< 0.85	0.85	2.7	ug/L	12/02/02	SW846 8270C
2-Methylnaphthalene	7.6	0.85	2.7	ug/L	12/02/02	SW846 8270C
1-Methylnaphthalene	3.9	0.85	2.7	ug/L	12/02/02	SW846 8270C
Naphthalene	17	1.2	3.8	ug/L	12/02/02	SW846 8270C
Phenanthrene	< 0.80	0.80	2.5	ug/L	12/02/02	SW846 8270C
Pyrene	< 0.85	0.85	2.7	ug/L	12/02/02	SW846 8270C

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-27
Lab Sample Number : 828875-007
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Organic Results

DIESEL RANGE ORGANICS - WATER			Prep Method: Wi MOD DRO			Prep Date: 12/4/02	Analyst: KEG	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	< 2000			2000	ug/l		12/04/02	Wi MOD DRO
Blank spike	149			25.0	%Recov		12/04/02	Wi MOD DRO
Blank spike duplicate	168			25.0	%Recov		12/04/02	Wi MOD DRO
Blank	< 50			50	ug/l		12/04/02	Wi MOD DRO

Organic Results

EPA 8260 VOLATILE LIST- WATER			Prep Method: SW846 5030B			Prep Date: 11/27/02	Analyst: JSF	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	2900	5.0	16		ug/L		11/27/02	SW846 8260B
Bromobenzene	< 15	15	48		ug/L		11/27/02	SW846 8260B
Bromochloromethane	< 13	13	41		ug/L		11/27/02	SW846 8260B
Bromodichloromethane	< 4.6	4.6	15		ug/L		11/27/02	SW846 8260B
Bromoform	< 9.0	9.0	29		ug/L		11/27/02	SW846 8260B
Bromomethane	< 17	17	54		ug/L		11/27/02	SW846 8260B
s-Butylbenzene	< 12	12	38		ug/L		11/27/02	SW846 8260B
t-Butylbenzene	< 19	19	61		ug/L		11/27/02	SW846 8260B
n-Butylbenzene	< 13	13	41		ug/L		11/27/02	SW846 8260B
Carbon tetrachloride	< 9.4	9.4	30		ug/L		11/27/02	SW846 8260B
Chloroform	< 9.0	9.0	29		ug/L		11/27/02	SW846 8260B
Chlorobenzene	< 12	12	38		ug/L		11/27/02	SW846 8260B
Chlorodibromomethane	< 17	17	54		ug/L		11/27/02	SW846 8260B
Chloroethane	< 17	17	54		ug/L		11/27/02	SW846 8260B
Chloromethane	< 5.4	5.4	17		ug/L		11/27/02	SW846 8260B
2-Chlorotoluene	< 13	13	41		ug/L		11/27/02	SW846 8260B
4-Chlorotoluene	< 18	18	57		ug/L		11/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 18	18	57		ug/L		11/27/02	SW846 8260B
1,2-Dibromoethane	< 13	13	41		ug/L		11/27/02	SW846 8260B
Dibromomethane	< 15	15	48		ug/L		11/27/02	SW846 8260B
1,3-Dichlorobenzene	< 12	12	38		ug/L		11/27/02	SW846 8260B
1,4-Dichlorobenzene	< 13	13	41		ug/L		11/27/02	SW846 8260B
1,2-Dichloroethane	< 11	11	35		ug/L		11/27/02	SW846 8260B
1,2-Dichlorobenzene	< 14	14	45		ug/L		11/27/02	SW846 8260B
1,1-Dichloroethene	< 11	11	35		ug/L		11/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 16	16	51		ug/L		11/27/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-27
Lab Sample Number : 828875-007
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Dichlorodifluoromethane	< 11	11	35	ug/L		11/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 16	16	51	ug/L		11/27/02	SW846 8260B
1,2-Dichloropropane	< 7.8	7.8	25	ug/L		11/27/02	SW846 8260B
1,1-Dichloroethane	< 17	17	54	ug/L		11/27/02	SW846 8260B
1,3-Dichloropropane	< 12	12	38	ug/L		11/27/02	SW846 8260B
2,2-Dichloropropane	< 20	20	64	ug/L		11/27/02	SW846 8260B
1,1-Dichloropropene	< 16	16	51	ug/L		11/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 11	11	35	ug/L		11/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 13	13	41	ug/L		11/27/02	SW846 8260B
Diisopropyl ether	< 12	12	38	ug/L		11/27/02	SW846 8260B
Ethylbenzene	370	11	35	ug/L		11/27/02	SW846 8260B
Fluorotrichloromethane	< 17	17	54	ug/L		11/27/02	SW846 8260B
Hexachlorobutadiene	< 19	19	61	ug/L		11/27/02	SW846 8260B
Isopropylbenzene	< 13	13	41	ug/L		11/27/02	SW846 8260B
p-Isopropyltoluene	< 12	12	38	ug/L		11/27/02	SW846 8260B
Methylene chloride	< 9.4	9.4	30	ug/L		11/27/02	SW846 8260B
Methyl-tert-butyl-ether	82	17	54	ug/L		11/27/02	SW846 8260B
Naphthalene	61	13	41	ug/L		11/27/02	SW846 8260B
n-Propylbenzene	< 19	19	61	ug/L		11/27/02	SW846 8260B
Styrene	< 12	12	38	ug/L	&	11/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 15	15	48	ug/L		11/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 19	19	61	ug/L		11/27/02	SW846 8260B
Tetrachloroethene	< 13	13	41	ug/L		11/27/02	SW846 8260B
Toluene	1500	17	54	ug/L		11/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 15	15	48	ug/L		11/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 11	11	35	ug/L		11/27/02	SW846 8260B
1,1,1-Trichloroethane	< 13	13	41	ug/L		11/27/02	SW846 8260B
1,1,2-Trichloroethane	< 10	10	32	ug/L		11/27/02	SW846 8260B
1,2,4-Trimethylbenzene	< 14	14	45	ug/L		11/27/02	SW846 8260B
Trichloroethene	< 7.8	7.8	25	ug/L		11/27/02	SW846 8260B
1,2,3-Trichloropropane	< 18	18	57	ug/L		11/27/02	SW846 8260B
1,3,5-Trimethylbenzene	74	13	41	ug/L		11/27/02	SW846 8260B
Vinyl chloride	< 2.2	2.2	7.0	ug/L		11/27/02	SW846 8260B
Xylenes, -m, -p	280	22	70	ug/L		11/27/02	SW846 8260B
Xylene, -o	370	15	48	ug/L		11/27/02	SW846 8260B
4-Bromofluorobenzene	111			%Recov		11/27/02	SW846 8260B
Dibromofluoromethane	127			%Recov		11/27/02	SW846 8260B
Toluene-d8	128			%Recov		11/27/02	SW846 8260B

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-27
 Lab Sample Number : 828875-007
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Organic Results

PAH/PNA - SEMIVOLATILES		Prep Method: SW846 3510				Prep Date: 12/5/02	Analyst: RJN	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
2-Fluorobiphenyl	99				%Recov	H	12/06/02	SW846 8270C
Terphenyl-d14	60				%Recov	H	12/06/02	SW846 8270C
Nitrobenzene-d5	78				%Recov	H	12/06/02	SW846 8270C
Acenaphthene	< 0.36	0.36	1.1		ug/L	H	12/06/02	SW846 8270C
Acenaphthylene	< 0.38	0.38	1.2		ug/L	H	12/06/02	SW846 8270C
Anthracene	< 0.40	0.40	1.3		ug/L	H	12/06/02	SW846 8270C
Benzo(a)anthracene	< 0.24	0.24	0.76		ug/L	H	12/06/02	SW846 8270C
Benzo(a)pyrene	< 0.28	0.28	0.89		ug/L	H	12/06/02	SW846 8270C
Benzo(b)fluoranthene	< 0.26	0.26	0.83		ug/L	H	12/06/02	SW846 8270C
Benzo(g,h,i)perylene	< 0.32	0.32	1.0		ug/L	H	12/06/02	SW846 8270C
Benzo(k)fluoranthene	< 0.38	0.38	1.2		ug/L	H	12/06/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.42	0.42	1.3		ug/L	H	12/06/02	SW846 8270C
Chrysene	< 0.28	0.28	0.89		ug/L	H	12/06/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.32	0.32	1.0		ug/L	H	12/06/02	SW846 8270C
Fluoranthene	< 0.26	0.26	0.83		ug/L	H	12/06/02	SW846 8270C
Fluorene	< 0.34	0.34	1.1		ug/L	H	12/06/02	SW846 8270C
2-Methylnaphthalene	11	3.4	11		ug/L	HD	12/06/02	SW846 8270C
1-Methylnaphthalene	7.6	0.34	1.1		ug/L	H	12/06/02	SW846 8270C
Naphthalene	55	4.8	15		ug/L	HD	12/06/02	SW846 8270C
Phenanthrene	< 0.32	0.32	1.0		ug/L	H	12/06/02	SW846 8270C
Pyrene	< 0.34	0.34	1.1		ug/L	H	12/06/02	SW846 8270C

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-29
Lab Sample Number : 828875-004
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Ethylbenzene	< 0.53	0.53	1.7	ug/L		11/26/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		11/26/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		11/26/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		11/26/02	SW846 8260B
Methylene chloride	0.99	0.47	1.5	ug/L	Q	11/26/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		11/26/02	SW846 8260B
Naphthalene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	11/26/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
Toluene	< 0.84	0.84	2.7	ug/L		11/26/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		11/26/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		11/26/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		11/26/02	SW846 8260B
1,2,4-Trimethylbenzene	< 0.69	0.69	2.2	ug/L		11/26/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		11/26/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		11/26/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		11/26/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		11/26/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		11/26/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		11/26/02	SW846 8260B
4-Bromofluorobenzene	106			%Recov		11/26/02	SW846 8260B
Dibromofluoromethane	127			%Recov		11/26/02	SW846 8260B
Toluene-d8	132			%Recov		11/26/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 11/27/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	102				%Recov		11/27/02	SW846 8270C
Nitrobenzene-d5	83				%Recov		11/27/02	SW846 8270C
2-Fluorobiphenyl	76				%Recov		11/27/02	SW846 8270C
Acenaphthene	< 0.018	0.018	0.057		ug/L		11/27/02	SW846 8270C
Acenaphthylene	< 0.019	0.019	0.061		ug/L		11/27/02	SW846 8270C
Anthracene	< 0.020	0.020	0.064		ug/L		11/27/02	SW846 8270C
Benzo(a)anthracene	< 0.012	0.012	0.038		ug/L		11/27/02	SW846 8270C
Benzo(a)pyrene	< 0.014	0.014	0.045		ug/L		11/27/02	SW846 8270C
Benzo(b)fluoranthene	< 0.013	0.013	0.041		ug/L		11/27/02	SW846 8270C

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-29
Lab Sample Number : 828875-004
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER		Prep Method: SW846 5030B				Prep Date: 11/26/02	Analyst: JSF	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.25	0.25	0.80		ug/L		11/26/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		11/26/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		11/26/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		11/26/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		11/26/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		11/26/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		11/26/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		11/26/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		11/26/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		11/26/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		11/26/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		11/26/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloropropene	< 0.79	0.79	2.5		ug/L		11/26/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0		ug/L		11/26/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9		ug/L		11/26/02	SW846 8260B

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : ATFC-29

Lab Sample Number : 828875-004

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 12/12/02

Collection Date : 11/21/02

Matrix Type : WATER

Benzo(g,h,i)perylene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Benzo(k)fluoranthene	< 0.019	0.019	0.061	ug/L	11/27/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.021	0.021	0.067	ug/L	11/27/02	SW846 8270C
Chrysene	< 0.014	0.014	0.045	ug/L	11/27/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Fluoranthene	< 0.013	0.013	0.041	ug/L	11/27/02	SW846 8270C
Fluorene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
2-Methylnaphthalene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
1-Methylnaphthalene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
Naphthalene	< 0.024	0.024	0.076	ug/L	11/27/02	SW846 8270C
Phenanthrene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Pyrene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-30
 Lab Sample Number : 828875-005
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER		Prep Method: SW846 5030B				Prep Date: 12/4/02	Analyst: JSF	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	650	25	80		ug/L		12/04/02	SW846 8260B
Bromobenzene	< 74	74	240		ug/L		12/04/02	SW846 8260B
Bromochloromethane	< 67	67	210		ug/L		12/04/02	SW846 8260B
Bromodichloromethane	< 23	23	73		ug/L		12/04/02	SW846 8260B
Bromoform	< 45	45	140		ug/L		12/04/02	SW846 8260B
Bromomethane	< 87	87	280		ug/L		12/04/02	SW846 8260B
s-Butylbenzene	< 62	62	200		ug/L		12/04/02	SW846 8260B
t-Butylbenzene	< 96	96	310		ug/L		12/04/02	SW846 8260B
n-Butylbenzene	< 65	65	210		ug/L		12/04/02	SW846 8260B
Carbon tetrachloride	< 47	47	150		ug/L		12/04/02	SW846 8260B
Chloroform	< 45	45	140		ug/L		12/04/02	SW846 8260B
Chlorobenzene	< 58	58	180		ug/L		12/04/02	SW846 8260B
Chlorodibromomethane	< 84	84	270		ug/L		12/04/02	SW846 8260B
Chloroethane	< 84	84	270		ug/L		12/04/02	SW846 8260B
Chloromethane	< 27	27	86		ug/L		12/04/02	SW846 8260B
2-Chlorotoluene	< 66	66	210		ug/L		12/04/02	SW846 8260B
4-Chlorotoluene	< 89	89	280		ug/L		12/04/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 88	88	280		ug/L		12/04/02	SW846 8260B
1,2-Dibromoethane	< 66	66	210		ug/L		12/04/02	SW846 8260B
Dibromomethane	< 74	74	240		ug/L		12/04/02	SW846 8260B
1,3-Dichlorobenzene	< 58	58	180		ug/L		12/04/02	SW846 8260B
1,4-Dichlorobenzene	< 63	63	200		ug/L		12/04/02	SW846 8260B
1,2-Dichloroethane	< 55	55	180		ug/L		12/04/02	SW846 8260B
1,2-Dichlorobenzene	< 71	71	230		ug/L		12/04/02	SW846 8260B
1,1-Dichloroethene	< 56	56	180		ug/L		12/04/02	SW846 8260B
cis-1,2-Dichloroethene	< 81	81	260		ug/L		12/04/02	SW846 8260B
Dichlorodifluoromethane	< 57	57	180		ug/L		12/04/02	SW846 8260B
trans-1,2-Dichloroethene	< 80	80	250		ug/L		12/04/02	SW846 8260B
1,2-Dichloropropane	< 39	39	120		ug/L		12/04/02	SW846 8260B
1,1-Dichloroethane	< 87	87	280		ug/L		12/04/02	SW846 8260B
1,3-Dichloropropane	< 62	62	200		ug/L		12/04/02	SW846 8260B
2,2-Dichloropropane	< 99	99	320		ug/L		12/04/02	SW846 8260B
1,1-Dichloropropene	< 79	79	250		ug/L		12/04/02	SW846 8260B
cis-1,3-Dichloropropene	< 57	57	180		ug/L		12/04/02	SW846 8260B
trans-1,3-Dichloropropene	< 64	64	200		ug/L		12/04/02	SW846 8260B
Diisopropyl ether	< 60	60	190		ug/L		12/04/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-30
Lab Sample Number : 828875-005
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Ethylbenzene	110	53	170	ug/L	Q	12/04/02	SW846 8260B
Fluorotrichloromethane	< 85	85	270	ug/L		12/04/02	SW846 8260B
Hexachlorobutadiene	< 95	95	300	ug/L		12/04/02	SW846 8260B
Isopropylbenzene	< 66	66	210	ug/L		12/04/02	SW846 8260B
p-Isopropyltoluene	< 58	58	180	ug/L		12/04/02	SW846 8260B
Methylene chloride	< 47	47	150	ug/L		12/04/02	SW846 8260B
Methyl-tert-butyl-ether	15000	87	280	ug/L		12/04/02	SW846 8260B
Naphthalene	69	63	200	ug/L	Q	12/04/02	SW846 8260B
n-Propylbenzene	< 95	95	300	ug/L		12/04/02	SW846 8260B
Styrene	< 62	62	200	ug/L	&	12/04/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 77	77	250	ug/L		12/04/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 95	95	300	ug/L		12/04/02	SW846 8260B
Tetrachloroethene	< 63	63	200	ug/L		12/04/02	SW846 8260B
Toluene	2600	84	270	ug/L		12/04/02	SW846 8260B
1,2,3-Trichlorobenzene	< 77	77	250	ug/L		12/04/02	SW846 8260B
1,2,4-Trichlorobenzene	< 57	57	180	ug/L		12/04/02	SW846 8260B
1,1,1-Trichloroethane	< 65	65	210	ug/L		12/04/02	SW846 8260B
1,1,2-Trichloroethane	< 50	50	160	ug/L		12/04/02	SW846 8260B
1,2,4-Trimethylbenzene	130	69	220	ug/L	Q	12/04/02	SW846 8260B
Trichloroethene	< 39	39	120	ug/L		12/04/02	SW846 8260B
1,2,3-Trichloropropane	< 92	92	290	ug/L		12/04/02	SW846 8260B
1,3,5-Trimethylbenzene	< 64	64	200	ug/L		12/04/02	SW846 8260B
Vinyl chloride	< 11	11	35	ug/L		12/04/02	SW846 8260B
Xylenes, -m, -p	480	110	350	ug/L		12/04/02	SW846 8260B
Xylene, -o	270	73	230	ug/L		12/04/02	SW846 8260B
4-Bromofluorobenzene	124			%Recov		12/04/02	SW846 8260B
Dibromofluoromethane	131			%Recov		12/04/02	SW846 8260B
Toluene-d8	127			%Recov		12/04/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 11/27/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	< NA				%Recov	D	12/02/02	SW846 8270C
Nitrobenzene-d5	< NA				%Recov	D	12/02/02	SW846 8270C
2-Fluorobiphenyl	< NA				%Recov	D	12/02/02	SW846 8270C
Acenaphthene	< 4.5	4.5	14		ug/L		12/02/02	SW846 8270C
Acenaphthylene	< 4.8	4.8	15		ug/L		12/02/02	SW846 8270C
Anthracene	< 5.0	5.0	16		ug/L		12/02/02	SW846 8270C
Benzo(a)anthracene	< 3.0	3.0	9.6		ug/L		12/02/02	SW846 8270C
Benzo(a)pyrene	< 3.5	3.5	11		ug/L		12/02/02	SW846 8270C
Benzo(b)fluoranthene	< 3.2	3.2	10		ug/L		12/02/02	SW846 8270C

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-30
 Lab Sample Number : 828875-005
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Benzo(g,h,i)perylene	< 4.0	4.0	13	ug/L	12/02/02	SW846 8270C
Benzo(k)fluoranthene	< 4.8	4.8	15	ug/L	12/02/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 5.2	5.2	17	ug/L	12/02/02	SW846 8270C
Chrysene	< 3.5	3.5	11	ug/L	12/02/02	SW846 8270C
Dibenzo(a,h)anthracene	< 4.0	4.0	13	ug/L	12/02/02	SW846 8270C
Fluoranthene	< 3.2	3.2	10	ug/L	12/02/02	SW846 8270C
Fluorene	< 4.2	4.2	13	ug/L	12/02/02	SW846 8270C
2-Methylnaphthalene	35	4.2	13	ug/L	12/02/02	SW846 8270C
1-Methylnaphthalene	20	4.2	13	ug/L	12/02/02	SW846 8270C
Naphthalene	69	6.0	19	ug/L	12/02/02	SW846 8270C
Phenanthrene	< 4.0	4.0	13	ug/L	12/02/02	SW846 8270C
Pyrene	< 4.2	4.2	13	ug/L	12/02/02	SW846 8270C

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : ATFC-31

Lab Sample Number : 828875-006

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 12/12/02

Collection Date : 11/21/02

Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 11/26/02

Analyst: JSF

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.25	0.25	0.80		ug/L		11/26/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		11/26/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		11/26/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		11/26/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		11/26/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		11/26/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		11/26/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		11/26/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		11/26/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		11/26/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		11/26/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		11/26/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloropropene	< 0.79	0.79	2.5		ug/L		11/26/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0		ug/L		11/26/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9		ug/L		11/26/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-31
Lab Sample Number : 828875-006
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Ethylbenzene	< 0.53	0.53	1.7	ug/L		11/26/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		11/26/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		11/26/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		11/26/02	SW846 8260B
Methylene chloride	0.87	0.47	1.5	ug/L	Q	11/26/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		11/26/02	SW846 8260B
Naphthalene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	11/26/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
Toluene	< 0.84	0.84	2.7	ug/L		11/26/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		11/26/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		11/26/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		11/26/02	SW846 8260B
1,2,4-Trimethylbenzene	< 0.69	0.69	2.2	ug/L		11/26/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		11/26/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		11/26/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		11/26/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		11/26/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		11/26/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		11/26/02	SW846 8260B
4-Bromofluorobenzene	108			%Recov		11/26/02	SW846 8260B
Dibromofluoromethane	121			%Recov		11/26/02	SW846 8260B
Toluene-d8	133			%Recov		11/26/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 11/27/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	108				%Recov		11/27/02	SW846 8270C
Nitrobenzene-d5	79				%Recov		11/27/02	SW846 8270C
2-Fluorobiphenyl	79				%Recov		11/27/02	SW846 8270C
Acenaphthene	< 0.018	0.018	0.057		ug/L		11/27/02	SW846 8270C
Acenaphthylene	< 0.019	0.019	0.061		ug/L		11/27/02	SW846 8270C
Anthracene	< 0.020	0.020	0.064		ug/L		11/27/02	SW846 8270C
Benzo(a)anthracene	< 0.012	0.012	0.038		ug/L		11/27/02	SW846 8270C
Benzo(a)pyrene	< 0.014	0.014	0.045		ug/L		11/27/02	SW846 8270C
Benzo(b)fluoranthene	< 0.013	0.013	0.041		ug/L		11/27/02	SW846 8270C

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-31
 Lab Sample Number : 828875-006
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Benzo(g,h,i)perylene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Benzo(k)fluoranthene	< 0.019	0.019	0.061	ug/L	11/27/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.021	0.021	0.067	ug/L	11/27/02	SW846 8270C
Chrysene	< 0.014	0.014	0.045	ug/L	11/27/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Fluoranthene	< 0.013	0.013	0.041	ug/L	11/27/02	SW846 8270C
Fluorene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
2-Methylnaphthalene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
1-Methylnaphthalene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
Naphthalene	< 0.024	0.024	0.076	ug/L	11/27/02	SW846 8270C
Phenanthrene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Pyrene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-32S
Lab Sample Number : 828875-008
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Organic Results

DIESEL RANGE ORGANICS - WATER			Prep Method: WI MOD DRO			Prep Date: 12/4/02	Analyst: KEG	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	< 2000			2000	ug/l		12/04/02	WI MOD DRO
Blank spike	149			25.0	%Recov		12/04/02	WI MOD DRO
Blank spike duplicate	168			25.0	%Recov		12/04/02	WI MOD DRO
Blank	< 50			50	ug/l		12/04/02	WI MOD DRO

Organic Results

EPA 8260 VOLATILE LIST- WATER			Prep Method: SW846 5030B			Prep Date: 11/26/02	Analyst: JSF	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	1900	2.5	8.0		ug/L		11/27/02	SW846 8260B
Bromobenzene	< 7.4	7.4	24		ug/L		11/27/02	SW846 8260B
Bromochloromethane	< 6.7	6.7	21		ug/L		11/27/02	SW846 8260B
Bromodichloromethane	< 2.3	2.3	7.3		ug/L		11/27/02	SW846 8260B
Bromoform	< 4.5	4.5	14		ug/L		11/27/02	SW846 8260B
Bromomethane	< 8.7	8.7	28		ug/L		11/27/02	SW846 8260B
s-Butylbenzene	< 6.2	6.2	20		ug/L		11/27/02	SW846 8260B
t-Butylbenzene	< 9.6	9.6	31		ug/L		11/27/02	SW846 8260B
n-Butylbenzene	< 6.5	6.5	21		ug/L		11/27/02	SW846 8260B
Carbon tetrachloride	< 4.7	4.7	15		ug/L		11/27/02	SW846 8260B
Chloroform	< 4.5	4.5	14		ug/L		11/27/02	SW846 8260B
Chlorobenzene	< 5.8	5.8	18		ug/L		11/27/02	SW846 8260B
Chlorodibromomethane	< 8.4	8.4	27		ug/L		11/27/02	SW846 8260B
Chloroethane	< 8.4	8.4	27		ug/L		11/27/02	SW846 8260B
Chloromethane	< 2.7	2.7	8.6		ug/L		11/27/02	SW846 8260B
2-Chlorotoluene	< 6.6	6.6	21		ug/L		11/27/02	SW846 8260B
4-Chlorotoluene	< 8.9	8.9	28		ug/L		11/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 8.8	8.8	28		ug/L		11/27/02	SW846 8260B
1,2-Dibromoethane	< 6.6	6.6	21		ug/L		11/27/02	SW846 8260B
Dibromomethane	< 7.4	7.4	24		ug/L		11/27/02	SW846 8260B
1,3-Dichlorobenzene	< 5.8	5.8	18		ug/L		11/27/02	SW846 8260B
1,4-Dichlorobenzene	< 6.3	6.3	20		ug/L		11/27/02	SW846 8260B
1,2-Dichloroethane	< 5.5	5.5	18		ug/L		11/27/02	SW846 8260B
1,2-Dichlorobenzene	< 7.1	7.1	23		ug/L		11/27/02	SW846 8260B
1,1-Dichloroethene	< 5.6	5.6	18		ug/L		11/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 8.1	8.1	26		ug/L		11/27/02	SW846 8260B

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : ATFC-32S

Lab Sample Number : 828875-008

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 12/12/02

Collection Date : 11/21/02

Matrix Type : WATER

Dichlorodifluoromethane	< 5.7	5.7	18	ug/L		11/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 8.0	8.0	25	ug/L		11/27/02	SW846 8260B
1,2-Dichloropropane	< 3.9	3.9	12	ug/L		11/27/02	SW846 8260B
1,1-Dichloroethane	< 8.7	8.7	28	ug/L		11/27/02	SW846 8260B
1,3-Dichloropropane	< 6.2	6.2	20	ug/L		11/27/02	SW846 8260B
2,2-Dichloropropane	< 9.9	9.9	32	ug/L		11/27/02	SW846 8260B
1,1-Dichloropropene	< 7.9	7.9	25	ug/L		11/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 5.7	5.7	18	ug/L		11/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 6.4	6.4	20	ug/L		11/27/02	SW846 8260B
Diisopropyl ether	< 6.0	6.0	19	ug/L		11/27/02	SW846 8260B
Ethylbenzene	510	5.3	17	ug/L		11/27/02	SW846 8260B
Fluorotrichloromethane	< 8.5	8.5	27	ug/L		11/27/02	SW846 8260B
Hexachlorobutadiene	< 9.5	9.5	30	ug/L		11/27/02	SW846 8260B
Isopropylbenzene	14	6.6	21	ug/L	Q	11/27/02	SW846 8260B
p-Isopropyltoluene	< 5.8	5.8	18	ug/L		11/27/02	SW846 8260B
Methylene chloride	< 4.7	4.7	15	ug/L		11/27/02	SW846 8260B
Methyl-tert-butyl-ether	560	8.7	28	ug/L		11/27/02	SW846 8260B
Naphthalene	260	6.3	20	ug/L		11/27/02	SW846 8260B
n-Propylbenzene	44	9.5	30	ug/L		11/27/02	SW846 8260B
Styrene	< 6.2	6.2	20	ug/L	&	11/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 7.7	7.7	25	ug/L		11/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 9.5	9.5	30	ug/L		11/27/02	SW846 8260B
Tetrachloroethene	< 6.3	6.3	20	ug/L		11/27/02	SW846 8260B
Toluene	2100	8.4	27	ug/L	E	11/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 7.7	7.7	25	ug/L		11/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 5.7	5.7	18	ug/L		11/27/02	SW846 8260B
1,1,1-Trichloroethane	< 6.5	6.5	21	ug/L		11/27/02	SW846 8260B
1,1,2-Trichloroethane	< 5.0	5.0	16	ug/L		11/27/02	SW846 8260B
1,2,4-Trimethylbenzene	390	6.9	22	ug/L		11/27/02	SW846 8260B
Trichloroethene	< 3.9	3.9	12	ug/L		11/27/02	SW846 8260B
1,2,3-Trichloropropane	< 9.2	9.2	29	ug/L		11/27/02	SW846 8260B
1,3,5-Trimethylbenzene	99	6.4	20	ug/L		11/27/02	SW846 8260B
Vinyl chloride	< 1.1	1.1	3.5	ug/L		11/27/02	SW846 8260B
Xylenes, -m, -p	1200	11	35	ug/L		11/27/02	SW846 8260B
Xylene, -o	300	7.3	23	ug/L		11/27/02	SW846 8260B
4-Bromofluorobenzene	109			%Recov		11/27/02	SW846 8260B
Dibromofluoromethane	123			%Recov		11/27/02	SW846 8260B
Toluene-d8	128			%Recov		11/27/02	SW846 8260B

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-32S
 Lab Sample Number : 828875-008
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Organic Results

PAH/PNA - SEMIVOLATILES		Prep Method: SW846 3510				Prep Date: 12/5/02		Analyst: RJN	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method	
2-Fluorobiphenyl	121				%Recov	H	12/06/02	SW846 8270C	
Terphenyl-d14	61				%Recov	H	12/06/02	SW846 8270C	
Nitrobenzene-d5	132				%Recov	H	12/06/02	SW846 8270C	
Acenaphthene	2.0	0.46	1.5		ug/L	H	12/06/02	SW846 8270C	
Acenaphthylene	0.85	0.49	1.6		ug/L	QH	12/06/02	SW846 8270C	
Anthracene	1.7	0.51	1.6		ug/L	H	12/06/02	SW846 8270C	
Benzo(a)anthracene	< 0.31	0.31	0.99		ug/L	H	12/06/02	SW846 8270C	
Benzo(a)pyrene	< 0.36	0.36	1.1		ug/L	H	12/06/02	SW846 8270C	
Benzo(b)fluoranthene	< 0.33	0.33	1.1		ug/L	H	12/06/02	SW846 8270C	
Benzo(g,h,i)perylene	< 0.41	0.41	1.3		ug/L	H	12/06/02	SW846 8270C	
Benzo(k)fluoranthene	< 0.49	0.49	1.6		ug/L	H	12/06/02	SW846 8270C	
Indeno(1,2,3-cd)pyrene	< 0.54	0.54	1.7		ug/L	H	12/06/02	SW846 8270C	
Chrysene	< 0.36	0.36	1.1		ug/L	H	12/06/02	SW846 8270C	
Dibenzo(a,h)anthracene	< 0.41	0.41	1.3		ug/L	H	12/06/02	SW846 8270C	
Fluoranthene	< 0.33	0.33	1.1		ug/L	H	12/06/02	SW846 8270C	
Fluorene	20	8.7	28		ug/L	QHD	12/06/02	SW846 8270C	
2-Methylnaphthalene	140	8.7	28		ug/L	HD	12/06/02	SW846 8270C	
1-Methylnaphthalene	90	8.7	28		ug/L	HD	12/06/02	SW846 8270C	
Naphthalene	180	12	38		ug/L	HD	12/06/02	SW846 8270C	
Phenanthrene	6.1	0.41	1.3		ug/L	H	12/06/02	SW846 8270C	
Pyrene	< 0.44	0.44	1.4		ug/L	H	12/06/02	SW846 8270C	

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-32D
Lab Sample Number : 828875-009
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 11/26/02

Analyst: JSF

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	1.8	0.25	0.80		ug/L		11/26/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		11/26/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		11/26/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		11/26/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		11/26/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		11/26/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		11/26/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		11/26/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		11/26/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		11/26/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		11/26/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		11/26/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloropropene	< 0.79	0.79	2.5		ug/L		11/26/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0		ug/L		11/26/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9		ug/L		11/26/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-32D
Lab Sample Number : 828875-009
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Ethylbenzene	< 0.53	0.53	1.7	ug/L		11/26/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		11/26/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		11/26/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		11/26/02	SW846 8260B
Methylene chloride	1.1	0.47	1.5	ug/L	Q	11/26/02	SW846 8260B
Methyl-tert-butyl-ether	1.3	0.87	2.8	ug/L	Q	11/26/02	SW846 8260B
Naphthalene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	11/26/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
Toluene	1.1	0.84	2.7	ug/L	Q	11/26/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		11/26/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		11/26/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		11/26/02	SW846 8260B
1,2,4-Trimethylbenzene	< 0.69	0.69	2.2	ug/L		11/26/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		11/26/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		11/26/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		11/26/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		11/26/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		11/26/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		11/26/02	SW846 8260B
4-Bromofluorobenzene	110			%Recov		11/26/02	SW846 8260B
Dibromofluoromethane	130			%Recov		11/26/02	SW846 8260B
Toluene-d8	129			%Recov		11/26/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 11/27/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	106				%Recov		11/27/02	SW846 8270C
Nitrobenzene-d5	92				%Recov		11/27/02	SW846 8270C
2-Fluorobiphenyl	87				%Recov		11/27/02	SW846 8270C
Acenaphthene	< 0.018	0.018	0.057		ug/L		11/27/02	SW846 8270C
Acenaphthylene	< 0.019	0.019	0.061		ug/L		11/27/02	SW846 8270C
Anthracene	< 0.020	0.020	0.064		ug/L		11/27/02	SW846 8270C
Benzo(a)anthracene	< 0.012	0.012	0.038		ug/L		11/27/02	SW846 8270C
Benzo(a)pyrene	< 0.014	0.014	0.045		ug/L		11/27/02	SW846 8270C
Benzo(b)fluoranthene	< 0.013	0.013	0.041		ug/L		11/27/02	SW846 8270C

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : ATFC-32D

Lab Sample Number : 828875-009

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 12/12/02

Collection Date : 11/21/02

Matrix Type : WATER

Benzo(g,h,i)perylene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Benzo(k)fluoranthene	< 0.019	0.019	0.061	ug/L	11/27/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.021	0.021	0.067	ug/L	11/27/02	SW846 8270C
Chrysene	< 0.014	0.014	0.045	ug/L	11/27/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Fluoranthene	< 0.013	0.013	0.041	ug/L	11/27/02	SW846 8270C
Fluorene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
2-Methylnaphthalene	0.15	0.017	0.054	ug/L	11/27/02	SW846 8270C
1-Methylnaphthalene	0.11	0.017	0.054	ug/L	11/27/02	SW846 8270C
Naphthalene	0.21	0.024	0.076	ug/L	11/27/02	SW846 8270C
Phenanthrene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Pyrene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-33S
Lab Sample Number : 828875-010
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Organic Results

DIESEL RANGE ORGANICS - WATER

Prep Method: Wi MOD DRO

Prep Date: 12/4/02

Analyst: KEG

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	< 2000			2000	ug/l		12/04/02	Wi MOD DRO
Blank spike	149			25.0	%Recov		12/04/02	Wi MOD DRO
Blank spike duplicate	168			25.0	%Recov		12/04/02	Wi MOD DRO
Blank	< 50			50	ug/l		12/04/02	Wi MOD DRO

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 11/26/02

Analyst: JSF

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 5.0	5.0	16		ug/L		11/27/02	SW846 8260B
Bromobenzene	< 15	15	48		ug/L		11/27/02	SW846 8260B
Bromochloromethane	< 13	13	41		ug/L		11/27/02	SW846 8260B
Bromodichloromethane	< 4.6	4.6	15		ug/L		11/27/02	SW846 8260B
Bromoform	< 9.0	9.0	29		ug/L		11/27/02	SW846 8260B
Bromomethane	< 17	17	54		ug/L		11/27/02	SW846 8260B
s-Butylbenzene	< 12	12	38		ug/L		11/27/02	SW846 8260B
t-Butylbenzene	< 19	19	61		ug/L		11/27/02	SW846 8260B
n-Butylbenzene	< 13	13	41		ug/L		11/27/02	SW846 8260B
Carbon tetrachloride	< 9.4	9.4	30		ug/L		11/27/02	SW846 8260B
Chloroform	< 9.0	9.0	29		ug/L		11/27/02	SW846 8260B
Chlorobenzene	< 12	12	38		ug/L		11/27/02	SW846 8260B
Chlorodibromomethane	< 17	17	54		ug/L		11/27/02	SW846 8260B
Chloroethane	< 17	17	54		ug/L		11/27/02	SW846 8260B
Chloromethane	< 5.4	5.4	17		ug/L		11/27/02	SW846 8260B
2-Chlorotoluene	< 13	13	41		ug/L		11/27/02	SW846 8260B
4-Chlorotoluene	< 18	18	57		ug/L		11/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 18	18	57		ug/L		11/27/02	SW846 8260B
1,2-Dibromoethane	< 13	13	41		ug/L		11/27/02	SW846 8260B
Dibromomethane	< 15	15	48		ug/L		11/27/02	SW846 8260B
1,3-Dichlorobenzene	< 12	12	38		ug/L		11/27/02	SW846 8260B
1,4-Dichlorobenzene	< 13	13	41		ug/L		11/27/02	SW846 8260B
1,2-Dichloroethane	< 11	11	35		ug/L		11/27/02	SW846 8260B
1,2-Dichlorobenzene	< 14	14	45		ug/L		11/27/02	SW846 8260B
1,1-Dichloroethene	< 11	11	35		ug/L		11/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 16	16	51		ug/L		11/27/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-33S
Lab Sample Number : 828875-010
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Dichlorodifluoromethane	< 11	11	35	ug/L		11/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 16	16	51	ug/L		11/27/02	SW846 8260B
1,2-Dichloropropane	< 7.8	7.8	25	ug/L		11/27/02	SW846 8260B
1,1-Dichloroethane	< 17	17	54	ug/L		11/27/02	SW846 8260B
1,3-Dichloropropane	< 12	12	38	ug/L		11/27/02	SW846 8260B
2,2-Dichloropropane	< 20	20	64	ug/L		11/27/02	SW846 8260B
1,1-Dichloropropene	< 16	16	51	ug/L		11/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 11	11	35	ug/L		11/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 13	13	41	ug/L		11/27/02	SW846 8260B
Diisopropyl ether	90	12	38	ug/L		11/27/02	SW846 8260B
Ethylbenzene	< 11	11	35	ug/L		11/27/02	SW846 8260B
Fluorotrichloromethane	< 17	17	54	ug/L		11/27/02	SW846 8260B
Hexachlorobutadiene	< 19	19	61	ug/L		11/27/02	SW846 8260B
Isopropylbenzene	< 13	13	41	ug/L		11/27/02	SW846 8260B
p-Isopropyltoluene	< 12	12	38	ug/L		11/27/02	SW846 8260B
Methylene chloride	< 9.4	9.4	30	ug/L		11/27/02	SW846 8260B
Methyl-tert-butyl-ether	830	17	54	ug/L		11/27/02	SW846 8260B
Naphthalene	< 13	13	41	ug/L		11/27/02	SW846 8260B
n-Propylbenzene	< 19	19	61	ug/L		11/27/02	SW846 8260B
Styrene	< 12	12	38	ug/L	&	11/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 15	15	48	ug/L		11/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 19	19	61	ug/L		11/27/02	SW846 8260B
Tetrachloroethene	< 13	13	41	ug/L		11/27/02	SW846 8260B
Toluene	< 17	17	54	ug/L		11/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 15	15	48	ug/L		11/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 11	11	35	ug/L		11/27/02	SW846 8260B
1,1,1-Trichloroethane	< 13	13	41	ug/L		11/27/02	SW846 8260B
1,1,2-Trichloroethane	< 10	10	32	ug/L		11/27/02	SW846 8260B
1,2,4-Trimethylbenzene	< 14	14	45	ug/L		11/27/02	SW846 8260B
Trichloroethene	< 7.8	7.8	25	ug/L		11/27/02	SW846 8260B
1,2,3-Trichloropropane	< 18	18	57	ug/L		11/27/02	SW846 8260B
1,3,5-Trimethylbenzene	< 13	13	41	ug/L		11/27/02	SW846 8260B
Vinyl chloride	< 2.2	2.2	7.0	ug/L		11/27/02	SW846 8260B
Xylenes, -m, -p	< 22	22	70	ug/L		11/27/02	SW846 8260B
Xylene, -o	< 15	15	48	ug/L		11/27/02	SW846 8260B
4-Bromofluorobenzene	109			%Recov		11/27/02	SW846 8260B
Dibromofluoromethane	127			%Recov		11/27/02	SW846 8260B
Toluene-d8	127			%Recov		11/27/02	SW846 8260B

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-33S
 Lab Sample Number : 828875-010
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Organic Results

PAH/PNA - SEMIVOLATILES		Prep Method: SW846 3510				Prep Date: 12/5/02		Analyst: RJN
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
2-Fluorobiphenyl	79				%Recov	H	12/06/02	SW846 8270C
Terphenyl-d14	63				%Recov	H	12/06/02	SW846 8270C
Nitrobenzene-d5	104				%Recov	H	12/06/02	SW846 8270C
Acenaphthene	< 0.090	0.090	0.29		ug/L	H	12/06/02	SW846 8270C
Acenaphthylene	< 0.095	0.095	0.30		ug/L	H	12/06/02	SW846 8270C
Anthracene	< 0.100	0.10	0.32		ug/L	H	12/06/02	SW846 8270C
Benzo(a)anthracene	< 0.060	0.060	0.19		ug/L	H	12/06/02	SW846 8270C
Benzo(a)pyrene	< 0.070	0.070	0.22		ug/L	H	12/06/02	SW846 8270C
Benzo(b)fluoranthene	< 0.065	0.065	0.21		ug/L	H	12/06/02	SW846 8270C
Benzo(g,h,i)perylene	< 0.080	0.080	0.25		ug/L	H	12/06/02	SW846 8270C
Benzo(k)fluoranthene	< 0.095	0.095	0.30		ug/L	H	12/06/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.10	0.10	0.32		ug/L	H	12/06/02	SW846 8270C
Chrysene	< 0.070	0.070	0.22		ug/L	H	12/06/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.080	0.080	0.25		ug/L	H	12/06/02	SW846 8270C
Fluoranthene	< 0.065	0.065	0.21		ug/L	H	12/06/02	SW846 8270C
Fluorene	< 0.085	0.085	0.27		ug/L	H	12/06/02	SW846 8270C
2-Methylnaphthalene	0.65	0.085	0.27		ug/L	H	12/06/02	SW846 8270C
1-Methylnaphthalene	0.57	0.085	0.27		ug/L	H	12/06/02	SW846 8270C
Naphthalene	1.6	0.12	0.38		ug/L	H	12/06/02	SW846 8270C
Phenanthrene	< 0.080	0.080	0.25		ug/L	H	12/06/02	SW846 8270C
Pyrene	< 0.085	0.085	0.27		ug/L	H	12/06/02	SW846 8270C

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : ATFC-33D

Lab Sample Number : 828875-011

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 12/12/02

Collection Date : 11/21/02

Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 11/26/02

Analyst: JSF

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.25	0.25	0.80		ug/L		11/26/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		11/26/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		11/26/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		11/26/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		11/26/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		11/26/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		11/26/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		11/26/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		11/26/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		11/26/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		11/26/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		11/26/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloropropene	< 0.79	0.79	2.5		ug/L		11/26/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0		ug/L		11/26/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9		ug/L		11/26/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-33D
Lab Sample Number : 828875-011
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Ethylbenzene	< 0.53	0.53	1.7	ug/L		11/26/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		11/26/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		11/26/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		11/26/02	SW846 8260B
Methylene chloride	< 0.47	0.47	1.5	ug/L		11/26/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		11/26/02	SW846 8260B
Naphthalene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	11/26/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
Toluene	< 0.84	0.84	2.7	ug/L		11/26/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		11/26/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		11/26/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		11/26/02	SW846 8260B
1,2,4-Trimethylbenzene	< 0.69	0.69	2.2	ug/L		11/26/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		11/26/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		11/26/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		11/26/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		11/26/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		11/26/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		11/26/02	SW846 8260B
4-Bromofluorobenzene	107			%Recov		11/26/02	SW846 8260B
Dibromofluoromethane	128			%Recov		11/26/02	SW846 8260B
Toluene-d8	128			%Recov		11/26/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 11/27/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	108				%Recov		11/27/02	SW846 8270C
Nitrobenzene-d5	84				%Recov		11/27/02	SW846 8270C
2-Fluorobiphenyl	86				%Recov		11/27/02	SW846 8270C
Acenaphthene	< 0.018	0.018	0.057		ug/L		11/27/02	SW846 8270C
Acenaphthylene	< 0.019	0.019	0.061		ug/L		11/27/02	SW846 8270C
Anthracene	< 0.020	0.020	0.064		ug/L		11/27/02	SW846 8270C
Benzo(a)anthracene	< 0.012	0.012	0.038		ug/L		11/27/02	SW846 8270C
Benzo(a)pyrene	< 0.014	0.014	0.045		ug/L		11/27/02	SW846 8270C
Benzo(b)fluoranthene	< 0.013	0.013	0.041		ug/L		11/27/02	SW846 8270C

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-33D
Lab Sample Number : 828875-011
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Benzo(g,h,i)perylene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Benzo(k)fluoranthene	< 0.019	0.019	0.061	ug/L	11/27/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.021	0.021	0.067	ug/L	11/27/02	SW846 8270C
Chrysene	< 0.014	0.014	0.045	ug/L	11/27/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Fluoranthene	< 0.013	0.013	0.041	ug/L	11/27/02	SW846 8270C
Fluorene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
2-Methylnaphthalene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
1-Methylnaphthalene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
Naphthalene	< 0.024	0.024	0.076	ug/L	11/27/02	SW846 8270C
Phenanthrene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Pyrene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-34S
Lab Sample Number : 828875-012
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 11/26/02

Analyst: JSF

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.25	0.25	0.80		ug/L		11/26/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		11/26/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		11/26/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		11/26/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		11/26/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		11/26/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		11/26/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		11/26/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		11/26/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		11/26/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		11/26/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		11/26/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloropropene	< 0.79	0.79	2.5		ug/L		11/26/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0		ug/L		11/26/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9		ug/L		11/26/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-34S
Lab Sample Number : 828875-012
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Ethylbenzene	< 0.53	0.53	1.7	ug/L		11/26/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		11/26/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		11/26/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		11/26/02	SW846 8260B
Methylene chloride	1.0	0.47	1.5	ug/L	Q	11/26/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		11/26/02	SW846 8260B
Naphthalene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	11/26/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
Toluene	< 0.84	0.84	2.7	ug/L		11/26/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		11/26/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		11/26/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		11/26/02	SW846 8260B
1,2,4-Trimethylbenzene	< 0.69	0.69	2.2	ug/L		11/26/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		11/26/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		11/26/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		11/26/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		11/26/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		11/26/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		11/26/02	SW846 8260B
4-Bromofluorobenzene	105			%Recov		11/26/02	SW846 8260B
Dibromofluoromethane	129			%Recov		11/26/02	SW846 8260B
Toluene-d8	123			%Recov		11/26/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 11/27/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	103				%Recov		11/27/02	SW846 8270C
Nitrobenzene-d5	75				%Recov		11/27/02	SW846 8270C
2-Fluorobiphenyl	73				%Recov		11/27/02	SW846 8270C
Acenaphthene	< 0.018	0.018	0.057		ug/L		11/27/02	SW846 8270C
Acenaphthylene	< 0.019	0.019	0.061		ug/L		11/27/02	SW846 8270C
Anthracene	< 0.020	0.020	0.064		ug/L		11/27/02	SW846 8270C
Benzo(a)anthracene	< 0.012	0.012	0.038		ug/L		11/27/02	SW846 8270C
Benzo(a)pyrene	< 0.014	0.014	0.045		ug/L		11/27/02	SW846 8270C
Benzo(b)fluoranthene	< 0.013	0.013	0.041		ug/L		11/27/02	SW846 8270C

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-34S
 Lab Sample Number : 828875-012
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Benzo(g,h,i)perylene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Benzo(k)fluoranthene	< 0.019	0.019	0.061	ug/L	11/27/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.021	0.021	0.067	ug/L	11/27/02	SW846 8270C
Chrysene	< 0.014	0.014	0.045	ug/L	11/27/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Fluoranthene	< 0.013	0.013	0.041	ug/L	11/27/02	SW846 8270C
Fluorene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
2-Methylnaphthalene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
1-Methylnaphthalene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C
Naphthalene	< 0.024	0.024	0.076	ug/L	11/27/02	SW846 8270C
Phenanthrene	< 0.016	0.016	0.051	ug/L	11/27/02	SW846 8270C
Pyrene	< 0.017	0.017	0.054	ug/L	11/27/02	SW846 8270C

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-34D
Lab Sample Number : 828875-013
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 12/4/02

Analyst: JSF

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	4.2	2.5	8.0		ug/L	Q	12/04/02	SW846 8260B
Bromobenzene	< 7.4	7.4	24		ug/L		12/04/02	SW846 8260B
Bromochloromethane	< 6.7	6.7	21		ug/L		12/04/02	SW846 8260B
Bromodichloromethane	< 2.3	2.3	7.3		ug/L		12/04/02	SW846 8260B
Bromoform	< 4.5	4.5	14		ug/L		12/04/02	SW846 8260B
Bromomethane	< 8.7	8.7	28		ug/L		12/04/02	SW846 8260B
s-Butylbenzene	< 6.2	6.2	20		ug/L		12/04/02	SW846 8260B
t-Butylbenzene	< 9.6	9.6	31		ug/L		12/04/02	SW846 8260B
n-Butylbenzene	< 6.5	6.5	21		ug/L		12/04/02	SW846 8260B
Carbon tetrachloride	< 4.7	4.7	15		ug/L		12/04/02	SW846 8260B
Chloroform	< 4.5	4.5	14		ug/L		12/04/02	SW846 8260B
Chlorobenzene	< 5.8	5.8	18		ug/L		12/04/02	SW846 8260B
Chlorodibromomethane	< 8.4	8.4	27		ug/L		12/04/02	SW846 8260B
Chloroethane	< 8.4	8.4	27		ug/L		12/04/02	SW846 8260B
Chloromethane	< 2.7	2.7	8.6		ug/L		12/04/02	SW846 8260B
2-Chlorotoluene	< 6.6	6.6	21		ug/L		12/04/02	SW846 8260B
4-Chlorotoluene	< 8.9	8.9	28		ug/L		12/04/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 8.8	8.8	28		ug/L		12/04/02	SW846 8260B
1,2-Dibromoethane	< 6.6	6.6	21		ug/L		12/04/02	SW846 8260B
Dibromomethane	< 7.4	7.4	24		ug/L		12/04/02	SW846 8260B
1,3-Dichlorobenzene	< 5.8	5.8	18		ug/L		12/04/02	SW846 8260B
1,4-Dichlorobenzene	< 6.3	6.3	20		ug/L		12/04/02	SW846 8260B
1,2-Dichloroethane	12	5.5	18		ug/L	Q	12/04/02	SW846 8260B
1,2-Dichlorobenzene	< 7.1	7.1	23		ug/L		12/04/02	SW846 8260B
1,1-Dichloroethene	< 5.6	5.6	18		ug/L		12/04/02	SW846 8260B
cis-1,2-Dichloroethene	1100	8.1	26		ug/L		12/04/02	SW846 8260B
Dichlorodifluoromethane	7.9	5.7	18		ug/L	Q	12/04/02	SW846 8260B
trans-1,2-Dichloroethene	18	8.0	25		ug/L	Q	12/04/02	SW846 8260B
1,2-Dichloropropane	< 3.9	3.9	12		ug/L		12/04/02	SW846 8260B
1,1-Dichloroethane	< 8.7	8.7	28		ug/L		12/04/02	SW846 8260B
1,3-Dichloropropane	< 6.2	6.2	20		ug/L		12/04/02	SW846 8260B
2,2-Dichloropropane	< 9.9	9.9	32		ug/L		12/04/02	SW846 8260B
1,1-Dichloropropene	< 7.9	7.9	25		ug/L		12/04/02	SW846 8260B
cis-1,3-Dichloropropene	< 5.7	5.7	18		ug/L		12/04/02	SW846 8260B
trans-1,3-Dichloropropene	< 6.4	6.4	20		ug/L		12/04/02	SW846 8260B
Diisopropyl ether	< 6.0	6.0	19		ug/L		12/04/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-34D
Lab Sample Number : 828875-013
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Ethylbenzene	< 5.3	5.3	17	ug/L		12/04/02	SW846 8260B
Fluorotrichloromethane	< 8.5	8.5	27	ug/L		12/04/02	SW846 8260B
Hexachlorobutadiene	< 9.5	9.5	30	ug/L		12/04/02	SW846 8260B
Isopropylbenzene	< 6.6	6.6	21	ug/L		12/04/02	SW846 8260B
p-Isopropyltoluene	< 5.8	5.8	18	ug/L		12/04/02	SW846 8260B
Methylene chloride	11	4.7	15	ug/L	Q	12/04/02	SW846 8260B
Methyl-tert-butyl-ether	< 8.7	8.7	28	ug/L		12/04/02	SW846 8260B
Naphthalene	< 6.3	6.3	20	ug/L		12/04/02	SW846 8260B
n-Propylbenzene	< 9.5	9.5	30	ug/L		12/04/02	SW846 8260B
Styrene	< 6.2	6.2	20	ug/L	&	12/04/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 7.7	7.7	25	ug/L		12/04/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 9.5	9.5	30	ug/L		12/04/02	SW846 8260B
Tetrachloroethene	110	6.3	20	ug/L		12/04/02	SW846 8260B
Toluene	< 8.4	8.4	27	ug/L		12/04/02	SW846 8260B
1,2,3-Trichlorobenzene	< 7.7	7.7	25	ug/L		12/04/02	SW846 8260B
1,2,4-Trichlorobenzene	< 5.7	5.7	18	ug/L		12/04/02	SW846 8260B
1,1,1-Trichloroethane	< 6.5	6.5	21	ug/L		12/04/02	SW846 8260B
1,1,2-Trichloroethane	< 5.0	5.0	16	ug/L		12/04/02	SW846 8260B
1,2,4-Trimethylbenzene	< 6.9	6.9	22	ug/L		12/04/02	SW846 8260B
Trichloroethene	120	3.9	12	ug/L		12/04/02	SW846 8260B
1,2,3-Trichloropropane	< 9.2	9.2	29	ug/L		12/04/02	SW846 8260B
1,3,5-Trimethylbenzene	< 6.4	6.4	20	ug/L		12/04/02	SW846 8260B
Vinyl chloride	110	1.1	3.5	ug/L		12/04/02	SW846 8260B
Xylenes, -m, -p	< 11	11	35	ug/L		12/04/02	SW846 8260B
Xylene, -o	< 7.3	7.3	23	ug/L		12/04/02	SW846 8260B
4-Bromofluorobenzene	123			%Recov		12/04/02	SW846 8260B
Dibromofluoromethane	128			%Recov		12/04/02	SW846 8260B
Toluene-d8	130			%Recov		12/04/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 11/27/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	90				%Recov		12/02/02	SW846 8270C
Nitrobenzene-d5	92				%Recov		12/02/02	SW846 8270C
2-Fluorobiphenyl	126				%Recov		12/02/02	SW846 8270C
Acenaphthene	< 0.36	0.36	1.1		ug/L		12/02/02	SW846 8270C
Acenaphthylene	< 0.38	0.38	1.2		ug/L		12/02/02	SW846 8270C
Anthracene	< 0.40	0.40	1.3		ug/L		12/02/02	SW846 8270C
Benzo(a)anthracene	< 0.24	0.24	0.76		ug/L		12/02/02	SW846 8270C
Benzo(a)pyrene	< 0.28	0.28	0.89		ug/L		12/02/02	SW846 8270C
Benzo(b)fluoranthene	< 0.26	0.26	0.83		ug/L		12/02/02	SW846 8270C

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : ATFC-34D
 Lab Sample Number : 828875-013
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Benzo(g,h,i)perylene	< 0.32	0.32	1.0	ug/L	12/02/02	SW846 8270C
Benzo(k)fluoranthene	< 0.38	0.38	1.2	ug/L	12/02/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.42	0.42	1.3	ug/L	12/02/02	SW846 8270C
Chrysene	< 0.28	0.28	0.89	ug/L	12/02/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.32	0.32	1.0	ug/L	12/02/02	SW846 8270C
Fluoranthene	< 0.26	0.26	0.83	ug/L	12/02/02	SW846 8270C
Fluorene	< 0.34	0.34	1.1	ug/L	12/02/02	SW846 8270C
2-Methylnaphthalene	2.1	0.34	1.1	ug/L	12/02/02	SW846 8270C
1-Methylnaphthalene	2.9	0.34	1.1	ug/L	12/02/02	SW846 8270C
Naphthalene	7.7	0.48	1.5	ug/L	12/02/02	SW846 8270C
Phenanthrene	< 0.32	0.32	1.0	ug/L	12/02/02	SW846 8270C
Pyrene	< 0.34	0.34	1.1	ug/L	12/02/02	SW846 8270C

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-35
Lab Sample Number : 828875-014
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER		Prep Method: SW846 5030B				Prep Date: 11/26/02	Analyst: JSF	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.25	0.25	0.80		ug/L		11/26/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		11/26/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		11/26/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		11/26/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		11/26/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		11/26/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		11/26/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		11/26/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		11/26/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		11/26/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		11/26/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		11/26/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloropropene	< 0.79	0.79	2.5		ug/L		11/26/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0		ug/L		11/26/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9		ug/L		11/26/02	SW846 8260B

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-35
Lab Sample Number : 828875-014
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Ethylbenzene	< 0.53	0.53	1.7	ug/L		11/26/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		11/26/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		11/26/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		11/26/02	SW846 8260B
Methylene chloride	0.95	0.47	1.5	ug/L	Q	11/26/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		11/26/02	SW846 8260B
Naphthalene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	11/26/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
Toluene	< 0.84	0.84	2.7	ug/L		11/26/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		11/26/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		11/26/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		11/26/02	SW846 8260B
1,2,4-Trimethylbenzene	< 0.69	0.69	2.2	ug/L		11/26/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		11/26/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		11/26/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		11/26/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		11/26/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		11/26/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		11/26/02	SW846 8260B
4-Bromofluorobenzene	108			%Recov		11/26/02	SW846 8260B
Dibromofluoromethane	131			%Recov		11/26/02	SW846 8260B
Toluene-d8	130			%Recov		11/26/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 11/27/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	96				%Recov		11/27/02	SW846 8270C
Nitrobenzene-d5	79				%Recov		11/27/02	SW846 8270C
2-Fluorobiphenyl	86				%Recov		11/27/02	SW846 8270C
Acenaphthene	< 0.018	0.018	0.057		ug/L		11/27/02	SW846 8270C
Acenaphthylene	< 0.019	0.019	0.061		ug/L		11/27/02	SW846 8270C
Anthracene	< 0.020	0.020	0.064		ug/L		11/27/02	SW846 8270C
Benzo(a)anthracene	< 0.012	0.012	0.038		ug/L		11/27/02	SW846 8270C
Benzo(a)pyrene	< 0.014	0.014	0.045		ug/L		11/27/02	SW846 8270C
Benzo(b)fluoranthene	< 0.013	0.013	0.041		ug/L		11/27/02	SW846 8270C

- Analytical Report -

Project Name :
Project Number : 27380W
Field ID : ATFC-35
Lab Sample Number : 828875-014
WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
Report Date : 12/12/02
Collection Date : 11/21/02
Matrix Type : WATER

Benzo(g,h,i)perylene	< 0.016	0.016	0.051	ug/L		11/27/02	SW846 8270C
Benzo(k)fluoranthene	< 0.019	0.019	0.061	ug/L		11/27/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.021	0.021	0.067	ug/L		11/27/02	SW846 8270C
Chrysene	< 0.014	0.014	0.045	ug/L		11/27/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.016	0.016	0.051	ug/L		11/27/02	SW846 8270C
Fluoranthene	< 0.013	0.013	0.041	ug/L		11/27/02	SW846 8270C
Fluorene	< 0.017	0.017	0.054	ug/L		11/27/02	SW846 8270C
2-Methylnaphthalene	< 0.017	0.017	0.054	ug/L		11/27/02	SW846 8270C
1-Methylnaphthalene	< 0.017	0.017	0.054	ug/L		11/27/02	SW846 8270C
Naphthalene	0.024	0.024	0.076	ug/L	Q	11/27/02	SW846 8270C
Phenanthrene	< 0.016	0.016	0.051	ug/L		11/27/02	SW846 8270C
Pyrene	< 0.017	0.017	0.054	ug/L		11/27/02	SW846 8270C

- Analytical Report -

Project Name :

Project Number : 27380W

Field ID : TRIP BLANK

Lab Sample Number : 828875-015

WI DNR LAB ID : 405132750

Client : STS CONSULTANTS

Report Date : 12/12/02

Collection Date : 11/21/02

Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 11/26/02

Analyst: JSF

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.25	0.25	0.80		ug/L		11/26/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		11/26/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		11/26/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		11/26/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		11/26/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		11/26/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		11/26/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		11/26/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		11/26/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		11/26/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		11/26/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		11/26/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		11/26/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		11/26/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		11/26/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		11/26/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		11/26/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		11/26/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		11/26/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		11/26/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		11/26/02	SW846 8260B
1,1-Dichloropropene	< 0.79	0.79	2.5		ug/L		11/26/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8		ug/L		11/26/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0		ug/L		11/26/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9		ug/L		11/26/02	SW846 8260B

- Analytical Report -

Project Name :
 Project Number : 27380W
 Field ID : TRIP BLANK
 Lab Sample Number : 828875-015
 WI DNR LAB ID : 405132750

Client : STS CONSULTANTS
 Report Date : 12/12/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Ethylbenzene	< 0.53	0.53	1.7	ug/L		11/26/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		11/26/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		11/26/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		11/26/02	SW846 8260B
Methylene chloride	1.1	0.47	1.5	ug/L	Q	11/26/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		11/26/02	SW846 8260B
Naphthalene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	11/26/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		11/26/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		11/26/02	SW846 8260B
Toluene	< 0.84	0.84	2.7	ug/L		11/26/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		11/26/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		11/26/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		11/26/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		11/26/02	SW846 8260B
1,2,4-Trimethylbenzene	< 0.69	0.69	2.2	ug/L		11/26/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		11/26/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		11/26/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		11/26/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		11/26/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		11/26/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		11/26/02	SW846 8260B
4-Bromofluorobenzene	107			%Recov		11/26/02	SW846 8260B
Dibromofluoromethane	128			%Recov		11/26/02	SW846 8260B
Toluene-d8	129			%Recov		11/26/02	SW846 8260B

CHAIN OF CUSTODY RECORD

No 31931



Contact Person Bob Mottl
 Phone No. 401-3117 Office CROWN BAY
 Project No. 27380W PO No. _____
 Project Name _____

Special Handling Request	
<input type="checkbox"/>	Rush
<input type="checkbox"/>	Verbal
<input type="checkbox"/>	Other

RECORD NUMBER _____ THROUGH _____

Laboratory En Chem
 Contact Person ERIC BULLOCK
 Phone No. _____
 Results Due _____

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
1 ATFC-25	11/21	3:30	X		4	Water								8290 2 Lab M 11/21/02
2 ATFC-2D		3:00			4									
3 ATFC-3		3:45			4									
4 ATFC-29		12:30			4									
5 ATFC-30		2:30			4									
6 ATFC-31		2:00			4									
7 * ATFC-27		3:45			4									* Hot sample*
8 * ATFC-32S		12:00			4									* Hot sample*
9 ATFC-32D	11/21	12:30			4									

Collected by: <u>Robert Mottl</u> Date <u>11/21/02</u> Time _____	Delivery by: <u>Robert Mottl</u> Date <u>11/22/02</u> Time <u>8:10</u>
Received by: <u>D. McAlley</u> Date <u>11/22/02</u> Time <u>1:10</u>	Relinquished by: _____ Date _____ Time _____
Received by: _____ Date _____ Time _____	Relinquished by: _____ Date _____ Time _____
Received by: _____ Date _____ Time _____	Relinquished by: _____ Date _____ Time _____
Received for lab by: _____ Date _____ Time _____	Relinquished by: _____ Date _____ Time _____

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

828875

Final Disposition: <u>DEO samples added for Lab M to, then match so lab</u>	Comments (Weather Conditions, Precautions, Hazards): <u>27, 32 S BLANK DISCOLORATION, pet odor</u>
---	---

Distribution: Original and Green - Laboratory Yellow - As needed Pink - Transporter Goldenrod - STS Project File
 Instructions to Laboratory: Forward completed original to STS with analytical results. Retain green copy.

6/99cp10k



CHAIN OF CUSTODY RECORD

No 31932



Contact Person B-B Mottz
 Phone No. 406 3147 Office GREEN BAY
 Project No. 27380W PO No. _____
 Project Name _____

Special Handling Request

Rush
 Verbal
 Other

RECORD NUMBER _____ THROUGH _____
 Laboratory En Chem
 Contact Person Eric Beilock
 Phone No. _____
 Results Due _____

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
* ATFC-33S	11/21/02	10:30	X		4	Water								8270 ok per B-B Mottz 11/22/02 (2314) *Hot Sample*
1 ATFC-33D		10:30			4									
2 ATFC-34S		11:00			4									
3 ATFC-34D		12:30			4									
4 ATFC-35		11:45			4									
Trip Blank														Added trip blank by lab 11/22/02

Collected by: <u>Robert Mottz</u>	Date: <u>11/21/02</u>	Time: <u>8:10</u>	Delivery by: <u>Robert Mottz</u>	Date: <u>11/22/02</u>	Time: _____
Received by: <u>A. Beilock</u>	Date: <u>11/23/02</u>	Time: <u>1:10</u>	Relinquished by: _____	Date: _____	Time: _____
Received by: _____	Date: _____	Time: _____	Relinquished by: _____	Date: _____	Time: _____
Received by: _____	Date: _____	Time: _____	Relinquished by: _____	Date: _____	Time: _____
Received for lab by: _____	Date: _____	Time: _____	Relinquished by: _____	Date: _____	Time: _____

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A 828875

Final Disposition: 1) OED per the notes that per B-B Mottz 11/22/02

Comments (Weather Conditions, Precautions, Hazards):
335 Black Discoloration, pet odor

Distribution: Original and Green - Laboratory Yellow - As needed Pink - Transporter Goldenrod - STS Project File
 Instructions to Laboratory: Forward completed original to STS with analytical results. Retain green copy.



Corporate Office & Laboratory
1241 Bellevue Street, Suite 9 • Green Bay, WI 54302
920-469-2436 • FAX: 920-469-8827 • 800-7-ENCHEM
www.enchem.com

Analytical Report Number: 834033

Client : STS CONSULTANTS

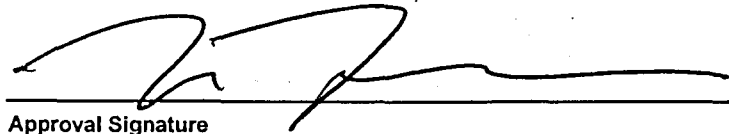
Project Name :

Project Number : 27380W

Lab Sample Number	Field ID	Matrix	Collection Date
834033-001	AFTC-2S	WATER	05/06/03
834033-002	AFTC-3	WATER	05/06/03
834033-003	AFTC-27	WATER	05/06/03
834033-004	AFTC-28	WATER	05/06/03
834033-005	AFTC-30	WATER	05/06/03
834033-006	AFTC-32S	WATER	05/06/03
834033-007	AFTC-33S	WATER	05/06/03
834033-008	AFTC-34D	WATER	05/06/03
834033-009	AFTC-42	WATER	05/06/03
834033-010	AFTC-44	WATER	05/06/03

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.


Approval Signature


Date

En Chem, Inc. Cooler Receipt Log

Batch No. 834033

Project Name or ID 27380W

No. of Coolers: 1 Temps: ROI

A. Receipt Phase: Date cooler was opened: 5-7-03 By: AM

- 1: Were samples received on ice? (Must be ≤ 6 C)..... YES NO²
- 2: Was there a Temperature Blank?..... YES NO
- 3: Were custody seals present and intact? (Record on COC)..... YES NO²
- 4: Are COC documents present?..... YES NO²
- 5: Does this Project require quick turn around analysis?..... YES NO¹
- 6: Is there any sub-work?..... YES NO¹
- 7: Are there any short hold time tests?..... YES NO¹
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES¹ NO Contacted by/Who _____
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES¹ NO Contacted by/Who _____

B. Check-in Phase: Date samples were Checked-in: 5-7-03 By: AM

- 1: Were all sample containers listed on the COC received and intact?..... YES NO² NA
- 2: Sign the COC as received by En Chem. Completed..... YES NO
- 3: Do sample labels match the COC? YES NO²
- 4: Completed pH check on preserved samples..... YES NO NA
(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)
- 5: Do samples have correct chemical preservation?..... YES NO² NA
(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)
- 6: Are dissolved parameters field filtered?..... YES NO² NA
- 7: Are sample volumes adequate for tests requested? YES NO²
- 8: Are VOC samples free of bubbles >6mm YES NO² NA
- 9: Enter samples into logbook. Completed..... YES NO
- 10: Place laboratory sample number on all containers and COC. Completed..... YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed..... YES NO NA
- 12: Start Nonconformance form. YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES NO NA
- 14: Check laboratory sample number on all containers and COC. KOP YES NO NA

Short Hold-time tests:

48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants Sulfite En Core Preservation Color	7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids <u>Aqueous Extractable Organics- ALL</u> Unpreserved VOC's Ash	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
--	--	--

Rev. 4/11/03, Attachment to 1-REC-5.
 Subject to QA Audit.

Reviewed by/date W5/8/03

En Chem Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
800-7-ENCHEM
Fax: 920-469-8827

Lab#:	TestGroupID:	Comment:
834033-	M-PB-D	A - Analyte is detected in the method blank at a concentration of 1.4 ug/L.

Organic Data Qualifiers

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit.
- D Analyte value from diluted analysis, or surrogate result not applicable due to sample dilution.
- E Analyte concentration exceeds calibration range.
- F Surrogate results outside control criteria.
- H Extraction or analysis performed past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection limit may be elevated due to the presence of an unrequested analyte.
- N Spiked sample recovery not within control limits.
- P The relative percent difference between the two columns for detected concentrations was greater than 40%.
- Q The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- S The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
- U The analyte was not detected above the reporting limit.
- V Sample received with headspace.
- W A second aliquot of sample was analyzed from a container with headspace.
- X See Sample Narrative.
- & Laboratory Control Spike recovery not within control limits.
- * Duplicate analyses not within control limits.

Test Group Name	834033-001	834033-002	834033-003	834033-004	834033-005	834033-006	834033-007	834033-008	834033-009	834033-010
LEAD - DISSOLVED	G		G				G	G	G	G
PAH/ PNA			G							
PVOC							G			
PVOC + NAPHTHALENE	G	G	G		G	G			G	G
VOLATILES								G		

WISCONSIN Certification	
G = En Chem Green Bay	405132750
K = En Chem Kimberly	445134030
S = Subcontracted Analysis	

Analytical Report Number: 834033

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380W
 Field ID : AFTC-2S

Matrix Type : WATER
 Collection Date : 05/06/03
 Report Date : 05/15/03
 Lab Sample Number : 834033-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Lead - Dissolved	20	1.3	4.1		ug/L	A	05/13/03	SW846 3010A	SW846 6010B	DLB

PVOC + NAPHTHALENE

Prep Method: SW846 5030B

Prep Date: 05/08/03

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	1600	130	410		ug/l		05/08/03	SW846 M8021B
1,3,5-Trimethylbenzene	500	100	320		ug/l		05/08/03	SW846 M8021B
Benzene	17000	60	190		ug/l		05/08/03	SW846 M8021B
Ethylbenzene	2300	120	380		ug/l		05/08/03	SW846 M8021B
Methyl-tert-butyl-ether	< 120	120	380		ug/l		05/08/03	SW846 M8021B
Naphthalene	520	120	380		ug/l		05/08/03	SW846 M8021B
Toluene	34000	120	380		ug/l		05/08/03	SW846 M8021B
Xylene, o	3300	130	410		ug/l		05/08/03	SW846 M8021B
Xylenes, m + p	7400	240	760		ug/l		05/08/03	SW846 M8021B
a,a,a-Trifluorotoluene	96				%Recov		05/08/03	SW846 M8021B

Analytical Report Number: 834033

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380W
 Field ID : AFTC-3

Matrix Type : WATER
 Collection Date : 05/06/03
 Report Date : 05/15/03
 Lab Sample Number : 834033-002

PVOC + NAPHTHALENE

Prep Method: SW846 5030B

Prep Date: 05/08/03

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	93	0.66	2.1		ug/l		05/08/03	SW846 M8021B
1,3,5-Trimethylbenzene	34	0.52	1.7		ug/l		05/08/03	SW846 M8021B
Benzene	160	0.30	0.96		ug/l		05/08/03	SW846 M8021B
Ethylbenzene	110	0.60	1.9		ug/l		05/08/03	SW846 M8021B
Methyl-tert-butyl-ether	2.6	0.58	1.8		ug/l		05/08/03	SW846 M8021B
Naphthalene	13	0.58	1.8		ug/l		05/08/03	SW846 M8021B
Toluene	120	0.58	1.8		ug/l		05/08/03	SW846 M8021B
Xylene, o	130	0.64	2.0		ug/l		05/08/03	SW846 M8021B
Xylenes, m + p	330	1.2	3.8		ug/l		05/08/03	SW846 M8021B
a,a,a-Trifluorotoluene	89				%Recov		05/08/03	SW846 M8021B

Analytical Report Number: 834033

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380W
 Field ID : AFTC-27

Matrix Type : WATER
 Collection Date : 05/06/03
 Report Date : 05/15/03
 Lab Sample Number : 834033-003

PVOC + NAPHTHALENE

Prep Method: SW846 5030B

Prep Date: 05/08/03

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	460	16	51		ug/l		05/08/03	SW846 M8021B
1,3,5-Trimethylbenzene	120	13	41		ug/l		05/08/03	SW846 M8021B
Benzene	4400	7.5	24		ug/l		05/08/03	SW846 M8021B
Ethylbenzene	750	15	48		ug/l		05/08/03	SW846 M8021B
Methyl-tert-butyl-ether	110	14	45		ug/l		05/08/03	SW846 M8021B
Naphthalene	170	14	45		ug/l		05/08/03	SW846 M8021B
Toluene	1500	14	45		ug/l		05/08/03	SW846 M8021B
Xylene, o	360	16	51		ug/l		05/08/03	SW846 M8021B
Xylenes, m + p	1600	30	96		ug/l		05/08/03	SW846 M8021B
a,a,a-Trifluorotoluene	96				%Recov		05/08/03	SW846 M8021B

Analytical Report Number: 834033

Client : STS CONSULTANTS
Project Name :
Project Number : 27380W
Field ID : AFTC-28

Matrix Type : WATER
Collection Date : 05/06/03
Report Date : 05/15/03
Lab Sample Number : 834033-004

INORGANICS

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Lead - Dissolved	22	1.3	4.1		ug/L	A	05/13/03	SW846 3010A	SW846 6010B	DLB

PAH/ PNA

Prep Method: SW846 3510

Prep Date: 05/09/03

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1-Methylnaphthalene	170	9.0	29		ug/L		05/12/03	SW846 8270C
2-Methylnaphthalene	240	8.5	27		ug/L		05/12/03	SW846 8270C
Acenaphthene	< 9.0	9.0	29		ug/L		05/12/03	SW846 8270C
Acenaphthylene	< 9.5	9.5	30		ug/L		05/12/03	SW846 8270C
Anthracene	< 10	10	32		ug/L		05/12/03	SW846 8270C
Benzo(a)anthracene	< 6.0	6.0	19		ug/L		05/12/03	SW846 8270C
Benzo(a)pyrene	< 7.0	7.0	22		ug/L		05/12/03	SW846 8270C
Benzo(b)fluoranthene	< 6.5	6.5	21		ug/L		05/12/03	SW846 8270C
Benzo(ghi)perylene	< 8.0	8.0	25		ug/L		05/12/03	SW846 8270C
Benzo(k)fluoranthene	< 9.5	9.5	30		ug/L		05/12/03	SW846 8270C
Chrysene	< 7.0	7.0	22		ug/L		05/12/03	SW846 8270C
Dibenzo(a,h)anthracene	< 8.0	8.0	25		ug/L		05/12/03	SW846 8270C
Fluoranthene	< 6.5	6.5	21		ug/L		05/12/03	SW846 8270C
Fluorene	8.9	8.5	27		ug/L	Q	05/12/03	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 10	10	32		ug/L		05/12/03	SW846 8270C
Naphthalene	180	12	38		ug/L		05/12/03	SW846 8270C
Phenanthrene	21	8.0	25		ug/L	Q	05/12/03	SW846 8270C
Pyrene	< 8.5	8.5	27		ug/L		05/12/03	SW846 8270C
Nitrobenzene-d5	< NA				%Recov	D	05/12/03	SW846 8270C
2-Fluorobiphenyl	< NA				%Recov	D	05/12/03	SW846 8270C
Terphenyl-d14	< NA				%Recov	D	05/12/03	SW846 8270C

Analytical Report Number: 834033

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380W
 Field ID : AFTC-30

Matrix Type : WATER
 Collection Date : 05/06/03
 Report Date : 05/15/03
 Lab Sample Number : 834033-005

PVOC + NAPHTHALENE

Prep Method: SW846 5030B

Prep Date: 05/09/03

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	110	66	210		ug/l	Q	05/09/03	SW846 M8021B
1,3,5-Trimethylbenzene	53	52	170		ug/l	Q	05/09/03	SW846 M8021B
Benzene	360	30	96		ug/l		05/09/03	SW846 M8021B
Ethylbenzene	71	60	190		ug/l	Q	05/09/03	SW846 M8021B
Methyl-tert-butyl-ether	12000	58	180		ug/l		05/09/03	SW846 M8021B
Naphthalene	59	58	180		ug/l	Q	05/09/03	SW846 M8021B
Toluene	2000	58	180		ug/l		05/09/03	SW846 M8021B
Xylene, o	230	64	200		ug/l		05/09/03	SW846 M8021B
Xylenes, m + p	350	120	380		ug/l	Q	05/09/03	SW846 M8021B
a,a,a-Trifluorotoluene	98				%Recov		05/09/03	SW846 M8021B

Analytical Report Number: 834033

Client : STS CONSULTANTS
Project Name :
Project Number : 27380W
Field ID : AFTC-32S

Matrix Type : WATER
Collection Date : 05/06/03
Report Date : 05/15/03
Lab Sample Number : 834033-006

PVOC + NAPHTHALENE

Prep Method: SW846 5030B

Prep Date: 05/08/03

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	23	0.66	2.1		ug/l	W	05/08/03	SW846 M8021B
1,3,5-Trimethylbenzene	6.2	0.52	1.7		ug/l	W	05/08/03	SW846 M8021B
Benzene	110	0.30	0.96		ug/l	W	05/08/03	SW846 M8021B
Ethylbenzene	28	0.60	1.9		ug/l	W	05/08/03	SW846 M8021B
Methyl-tert-butyl-ether	34	0.58	1.8		ug/l	W	05/08/03	SW846 M8021B
Naphthalene	18	0.58	1.8		ug/l	W	05/08/03	SW846 M8021B
Toluene	120	0.58	1.8		ug/l	W	05/08/03	SW846 M8021B
Xylene, o	18	0.64	2.0		ug/l	W	05/08/03	SW846 M8021B
Xylenes, m + p	67	1.2	3.8		ug/l	W	05/08/03	SW846 M8021B
a,a,a-Trifluorotoluene	97				%Recov		05/08/03	SW846 M8021B

Analytical Report Number: 834033

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380W
 Field ID : AFTC-33S

Matrix Type : WATER
 Collection Date : 05/06/03
 Report Date : 05/15/03
 Lab Sample Number : 834033-007

INORGANICS

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Lead - Dissolved	8.6	1.3	4.1		ug/L	A	05/13/03	SW846 3010A	SW846 6010B	DLB

PVOC

Prep Method: SW846 5030B

Prep Date: 05/09/03

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	< 2.6	2.6	8.3		ug/l		05/09/03	SW846 M8021B
1,3,5-Trimethylbenzene	< 2.1	2.1	6.7		ug/l		05/09/03	SW846 M8021B
Benzene	< 1.2	1.2	3.8		ug/l		05/09/03	SW846 M8021B
Ethylbenzene	< 2.4	2.4	7.6		ug/l		05/09/03	SW846 M8021B
Methyl-tert-butyl-ether	890	2.3	7.3		ug/l		05/09/03	SW846 M8021B
Toluene	< 2.3	2.3	7.3		ug/l		05/09/03	SW846 M8021B
Xylene, o	< 2.6	2.6	8.3		ug/l		05/09/03	SW846 M8021B
Xylenes, m + p	< 4.8	4.8	15		ug/l		05/09/03	SW846 M8021B
a,a,a-Trifluorotoluene	106				%Recov		05/09/03	SW846 M8021B

Analytical Report Number: 834033

Client : STS CONSULTANTS

Matrix Type : WATER

Project Name :

Collection Date : 05/06/03

Project Number : 27380W

Report Date : 05/15/03

Field ID : AFTC-34D

Lab Sample Number : 834033-008

VOLATILES

Prep Method: SW846 5030B

Prep Date: 05/09/03

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 4.6	4.6	15		ug/L		05/09/03	SW846 8260B
1,1,1-Trichloroethane	< 4.5	4.5	14		ug/L		05/09/03	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.0	1.0	3.2		ug/L		05/09/03	SW846 8260B
1,1,2-Trichloroethane	< 2.1	2.1	6.7		ug/L		05/09/03	SW846 8260B
1,1-Dichloroethane	< 3.8	3.8	12		ug/L		05/09/03	SW846 8260B
1,1-Dichloroethene	< 2.8	2.8	8.9		ug/L		05/09/03	SW846 8260B
1,1-Dichloropropene	< 3.8	3.8	12		ug/L		05/09/03	SW846 8260B
1,2,3-Trichlorobenzene	< 3.7	3.7	12		ug/L		05/09/03	SW846 8260B
1,2,3-Trichloropropane	< 5.0	5.0	16		ug/L		05/09/03	SW846 8260B
1,2,4-Trichlorobenzene	< 4.8	4.8	15		ug/L		05/09/03	SW846 8260B
1,2,4-Trimethylbenzene	33	4.8	15		ug/L		05/09/03	SW846 8260B
1,2-Dibromo-3-chloropropane	< 4.4	4.4	14		ug/L		05/09/03	SW846 8260B
1,2-Dibromoethane	< 2.8	2.8	8.9		ug/L		05/09/03	SW846 8260B
1,2-Dichlorobenzene	< 4.2	4.2	13		ug/L		05/09/03	SW846 8260B
1,2-Dichloroethane	< 1.8	1.8	5.7		ug/L		05/09/03	SW846 8260B
1,2-Dichloropropane	< 2.3	2.3	7.3		ug/L		05/09/03	SW846 8260B
1,3,5-Trimethylbenzene	9.2	4.2	13		ug/L	Q	05/09/03	SW846 8260B
1,3-Dichlorobenzene	< 4.4	4.4	14		ug/L		05/09/03	SW846 8260B
1,3-Dichloropropane	< 3.0	3.0	9.6		ug/L		05/09/03	SW846 8260B
1,4-Dichlorobenzene	< 4.8	4.8	15		ug/L		05/09/03	SW846 8260B
2,2-Dichloropropane	< 3.1	3.1	9.9		ug/L		05/09/03	SW846 8260B
2-Chlorotoluene	< 4.2	4.2	13		ug/L		05/09/03	SW846 8260B
4-Chlorotoluene	< 3.7	3.7	12		ug/L		05/09/03	SW846 8260B
Benzene	56	2.0	6.4		ug/L		05/09/03	SW846 8260B
Bromobenzene	< 4.1	4.1	13		ug/L		05/09/03	SW846 8260B
Bromochloromethane	< 4.8	4.8	15		ug/L		05/09/03	SW846 8260B
Bromodichloromethane	< 2.8	2.8	8.9		ug/L		05/09/03	SW846 8260B
Bromoform	< 4.7	4.7	15		ug/L		05/09/03	SW846 8260B
Bromomethane	< 4.6	4.6	15		ug/L		05/09/03	SW846 8260B
Carbon Tetrachloride	< 2.4	2.4	7.6		ug/L		05/09/03	SW846 8260B
Chlorobenzene	< 2.0	2.0	6.4		ug/L		05/09/03	SW846 8260B
Chlorodibromomethane	< 4.0	4.0	13		ug/L		05/09/03	SW846 8260B
Chloroethane	< 4.8	4.8	15		ug/L		05/09/03	SW846 8260B
Chloroform	< 1.8	1.8	5.7		ug/L		05/09/03	SW846 8260B
Chloromethane	< 1.2	1.2	3.8		ug/L		05/09/03	SW846 8260B
cis-1,2-Dichloroethene	< 4.2	4.2	13		ug/L		05/09/03	SW846 8260B
cis-1,3-Dichloropropene	< 0.95	0.95	3.0		ug/L		05/09/03	SW846 8260B
Dibromomethane	< 3.0	3.0	9.6		ug/L		05/09/03	SW846 8260B
Dichlorodifluoromethane	< 5.0	5.0	16		ug/L		05/09/03	SW846 8260B
Diisopropyl Ether	< 3.8	3.8	12		ug/L		05/09/03	SW846 8260B
Ethylbenzene	28	2.7	8.6		ug/L		05/09/03	SW846 8260B

Analytical Report Number: 834033

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380W
 Field ID : AFTC-34D

Matrix Type : WATER
 Collection Date : 05/06/03
 Report Date : 05/15/03
 Lab Sample Number : 834033-008

VOLATILES

Prep Method: SW846 5030B

Prep Date: 05/09/03

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Fluorotrichloromethane	< 4.0	4.0	13		ug/L		05/09/03	SW846 8260B
Hexachlorobutadiene	< 3.4	3.4	11		ug/L		05/09/03	SW846 8260B
Isopropylbenzene	< 3.0	3.0	9.6		ug/L		05/09/03	SW846 8260B
Methylene Chloride	< 2.2	2.2	7.0		ug/L		05/09/03	SW846 8260B
Methyl-tert-butyl-ether	680	3.0	9.6		ug/L		05/09/03	SW846 8260B
Naphthalene	17	3.7	12		ug/L		05/09/03	SW846 8260B
n-Butylbenzene	< 4.6	4.6	15		ug/L		05/09/03	SW846 8260B
n-Propylbenzene	5.8	4.0	13		ug/L	Q	05/09/03	SW846 8260B
p-Isopropyltoluene	< 3.4	3.4	11		ug/L		05/09/03	SW846 8260B
sec-Butylbenzene	< 4.4	4.4	14		ug/L		05/09/03	SW846 8260B
Styrene	< 4.3	4.3	14		ug/L		05/09/03	SW846 8260B
tert-Butylbenzene	< 4.8	4.8	15		ug/L		05/09/03	SW846 8260B
Tetrachloroethene	< 2.2	2.2	7.0		ug/L		05/09/03	SW846 8260B
Toluene	< 3.4	3.4	11		ug/L		05/09/03	SW846 8260B
trans-1,2-Dichloroethene	< 4.4	4.4	14		ug/L		05/09/03	SW846 8260B
trans-1,3-Dichloropropene	< 0.95	0.95	3.0		ug/L		05/09/03	SW846 8260B
Trichloroethene	< 2.4	2.4	7.6		ug/L		05/09/03	SW846 8260B
Vinyl Chloride	< 0.90	0.90	2.9		ug/L		05/09/03	SW846 8260B
Xylene, o	< 4.2	4.2	13		ug/L		05/09/03	SW846 8260B
Xylenes, m + p	64	9.0	29		ug/L		05/09/03	SW846 8260B
4-Bromofluorobenzene	88				%Recov		05/09/03	SW846 8260B
Toluene-d8	92				%Recov		05/09/03	SW846 8260B
Dibromofluoromethane	83				%Recov		05/09/03	SW846 8260B

Analytical Report Number: 834033

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380W
 Field ID : AFTC-42

Matrix Type : WATER
 Collection Date : 05/06/03
 Report Date : 05/15/03
 Lab Sample Number : 834033-009

INORGANICS

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Lead - Dissolved	4.1	1.3	4.1		ug/L	A	05/13/03	SW846 3010A	SW846 6010B	DLB

PVOC + NAPHTHALENE

Prep Method: SW846 5030B

Prep Date: 05/08/03

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	< 0.66	0.66	2.1		ug/l		05/08/03	SW846 M8021B
1,3,5-Trimethylbenzene	< 0.52	0.52	1.7		ug/l		05/08/03	SW846 M8021B
Benzene	< 0.30	0.30	0.96		ug/l		05/08/03	SW846 M8021B
Ethylbenzene	< 0.60	0.60	1.9		ug/l		05/08/03	SW846 M8021B
Methyl-tert-butyl-ether	< 0.58	0.58	1.8		ug/l		05/08/03	SW846 M8021B
Naphthalene	< 0.58	0.58	1.8		ug/l		05/08/03	SW846 M8021B
Toluene	< 0.58	0.58	1.8		ug/l		05/08/03	SW846 M8021B
Xylene, o	< 0.64	0.64	2.0		ug/l		05/08/03	SW846 M8021B
Xylenes, m + p	< 1.2	1.2	3.8		ug/l		05/08/03	SW846 M8021B
a,a,a-Trifluorotoluene	101				%Recov		05/08/03	SW846 M8021B

Analytical Report Number: 834033

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380W
 Field ID : AFTC-44

Matrix Type : WATER
 Collection Date : 05/06/03
 Report Date : 05/15/03
 Lab Sample Number : 834033-010

INORGANICS

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Lead - Dissolved	19	1.3	4.1		ug/L	A	05/13/03	SW846 3010A	SW846 6010B	DLB

PVOC + NAPHTHALENE

Prep Method: SW846 5030B

Prep Date: 05/08/03

Analyst: SMT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	< 0.66	0.66	2.1		ug/l	W	05/08/03	SW846 M8021B
1,3,5-Trimethylbenzene	< 0.52	0.52	1.7		ug/l	W	05/08/03	SW846 M8021B
Benzene	< 0.30	0.30	0.96		ug/l	W	05/08/03	SW846 M8021B
Ethylbenzene	< 0.60	0.60	1.9		ug/l	W	05/08/03	SW846 M8021B
Methyl-tert-butyl-ether	170	0.58	1.8		ug/l	W	05/08/03	SW846 M8021B
Naphthalene	< 0.58	0.58	1.8		ug/l	W	05/08/03	SW846 M8021B
Toluene	< 0.58	0.58	1.8		ug/l	W	05/08/03	SW846 M8021B
Xylene, o	< 0.64	0.64	2.0		ug/l	W	05/08/03	SW846 M8021B
Xylenes, m + p	< 1.2	1.2	3.8		ug/l	W	05/08/03	SW846 M8021B
a,a,a-Trifluorotoluene	101				%Recov		05/08/03	SW846 M8021B

(Please Print Legibly)

Company Name: STS CONSULTANTS LTD

Branch or Location: GREEN BAY

Project Contact: Bob MOTT

Telephone: 406-3147

Project Number: 27380W

Project Name: _____

Project State: WI

Sampled By (Print): Bob MOTT/Mark Musial

PO #: _____

Data Package Options - (please circle if requested)

- Sample Results Only (no QC)
- EPA Level II (Subject to Surcharge)
- EPA Level III (Subject to Surcharge)
- EPA Level IV (Subject to Surcharge)

Regulatory Program
 UST
 RCRA
 SDWA
 NPDES
 CERCLA

Matrix Codes
 W=Water
 S=Soil
 A=Air
 C=Charcoal
 B=Biota
 Sl=Sludge

EN CHEM
INC.

1241 Bellevue St., Suite 9
 Green Bay, WI 54302
 920-469-2436
 FAX 920-469-8827

CHAIN OF CUSTODY

103459

A=None B=HCL C=H2SO4 *Preservation Codes
 H = Sodium Bisulfate Solution D=HNO3 E=EnCore
 I = Sodium Thiosulfate F=Methanol G=NaOH
 J=Other

Filtered? (YES/NO) _____
 PRESERVATION (CODE)*

ANALYSES REQUESTED

PVOCs NAPHTHALENE VOCs DISSOLVED LEAD PAHs

TOTAL # OF BOTTLES SENT

Page 1 of 1

Quote #: STS

Mail Report To: Bob MOTT

Company: STS CONSULTANTS

Address: 1035 Kepler Drive
Green Bay, WI

Invoice To: Bob MOTT

Company: "

Address: "

Mail Invoice To: _____

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION			MATRIX	ANALYSES REQUESTED										TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)			
		DATE	TIME	MATRIX		PVOCs	NAPHTHALENE	VOCs	DISSOLVED LEAD	PAHs	A	B	C	D	E				F	G	H
001	AFTC-25	5/4/03	11:20	W	X	X		X											4	ODOR 1) 250 ml poly 3) 40 ml vial	
002	AFTC-23	"	11:00		X	X													3	ODOR	
003	AFTC-27	"	11:35		X	X													3	ODOR	
004	AFTC-28	"	13:15					X	X										4	BLACK 2) 1000 ueter amber 1) 250 ml	
005	AFTC-30	"	10:50		X	X													3	ODOR 3) 40 ml vials	
006	AFTC-32 S	"	12:30		X	X													3	ODOR	
007	AFTC-33 S	"	10:15		X			X											4	ODOR 1) 250 ml poly 3) 40 ml vial	
008	AFTC-34 D	"	12:15					X											3	BROWN 3) 40 ml vial	
009	AFTC-42	"	13:45		X	X		X											4	- 1) 250 ml poly 3) 40 ml vial	
010	AFTC-44	"	9:00		X	X		X											4	-	

no H2O in blank Kp 5-7-03

Rush Turnaround Time Requested (TAT) - Prelim
 (Rush TAT subject to approval/surcharge)
 Date Needed: _____
 Transmit Prelim Rush Results by (circle):
 Phone Fax E-Mail
 Phone #: _____
 Fax #: _____
 E-Mail Address: _____

Relinquished By: [Signature] Date/Time: 5-7-03 8:20
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: Annette Yanke Date/Time: 5-7-03 8:20
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

En Chem Project No. 834033
 Sample Receipt Temp. ROI
 Sample Receipt pH (Wet/Metal) Yes
 Cooler Custody Seal Present (Not Present) (Not Present)

Samples on HOLD are subject to sp incn elea abill

Print / Not Print



Corporate Office & Laboratory
1241 Bellevue Street, Suite 9 • Green Bay, WI 54302
920-469-2436 • FAX: 920-469-8827 • 800-7-ENCHEM
www.enchem.com

Analytical Report Number: 835288

Client : STS CONSULTANTS

Project Name :

Project Number : 27380XF

Lab Sample Number	Field ID	Matrix	Collection Date
835288-001	AFTC-44	WATER	06/09/03
835288-002	AFTC-45	WATER	06/09/03
835288-003	AFTC-3 ^{FD}	WATER	06/09/03
835288-004	TRIP ⁴	WATER	06/09/03

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

J. Duranceau
Approval Signature

6/15/03
Date

Analytical Report Number: 835288

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380XF 4
 Field ID : AFTC-39D

Matrix Type : WATER
 Collection Date : 06/09/03
 Report Date : 06/11/03
 Lab Sample Number : 835288-003

PVOC

Prep Method: SW846 5030B

Prep Date: 06/10/03

Analyst: PMS

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	28	1.6	5.1		ug/l		06/10/03	SW846 M8021B
1,3,5-Trimethylbenzene	8.5	1.3	4.1		ug/l		06/10/03	SW846 M8021B
Benzene	56	0.75	2.4		ug/l		06/10/03	SW846 M8021B
Ethylbenzene	29	1.5	4.8		ug/l		06/10/03	SW846 M8021B
Methyl-tert-butyl-ether	820	1.4	4.5		ug/l		06/10/03	SW846 M8021B
Toluene	< 1.4	1.4	4.5		ug/l		06/10/03	SW846 M8021B
Xylene, o	< 1.6	1.6	5.1		ug/l		06/10/03	SW846 M8021B
Xylenes, m + p	51	3.0	9.6		ug/l		06/10/03	SW846 M8021B
a,a,a-Trifluorotoluene	103				%Recov		06/10/03	SW846 M8021B

Analytical Report Number: 835288

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380XF
 Field ID : AFTC-44

Matrix Type : WATER
 Collection Date : 06/09/03
 Report Date : 06/11/03
 Lab Sample Number : 835288-001

PVOC		Prep Method: SW846 5030B				Prep Date: 06/10/03	Analyst: PMS	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	< 6.6	6.6	21		ug/l	C	06/10/03	SW846 M8021B
1,3,5-Trimethylbenzene	< 5.2	5.2	17		ug/l	C	06/10/03	SW846 M8021B
Benzene	< 3.0	3.0	9.6		ug/l	C	06/10/03	SW846 M8021B
Ethylbenzene	< 6.0	6.0	19		ug/l	C	06/10/03	SW846 M8021B
Methyl-tert-butyl-ether	86	5.8	18		ug/l		06/10/03	SW846 M8021B
Toluene	< 5.8	5.8	18		ug/l	C	06/10/03	SW846 M8021B
Xylene, o	< 6.4	6.4	20		ug/l	C	06/10/03	SW846 M8021B
Xylenes, m + p	< 12	12	38		ug/l	C	06/10/03	SW846 M8021B
a,a,a-Trifluorotoluene	102				%Recov		06/10/03	SW846 M8021B

Analytical Report Number: 835288

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380XF
 Field ID : AFTC-45

Matrix Type : WATER
 Collection Date : 06/09/03
 Report Date : 06/11/03
 Lab Sample Number : 835288-002

PVOC

Prep Method: SW846 5030B

Prep Date: 06/10/03

Analyst: PMS

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	< 0.66	0.66	2.1		ug/l		06/10/03	SW846 M8021B
1,3,5-Trimethylbenzene	< 0.52	0.52	1.7		ug/l		06/10/03	SW846 M8021B
Benzene	< 0.30	0.30	0.96		ug/l		06/10/03	SW846 M8021B
Ethylbenzene	< 0.60	0.60	1.9		ug/l		06/10/03	SW846 M8021B
Methyl-tert-butyl-ether	< 0.58	0.58	1.8		ug/l		06/10/03	SW846 M8021B
Toluene	< 0.58	0.58	1.8		ug/l		06/10/03	SW846 M8021B
Xylene, o	< 0.64	0.64	2.0		ug/l		06/10/03	SW846 M8021B
Xylenes, m + p	< 1.2	1.2	3.8		ug/l		06/10/03	SW846 M8021B
a,a,a-Trifluorotoluene	102				%Recov		06/10/03	SW846 M8021B

Analytical Report Number: 835288

Client : STS CONSULTANTS
Project Name :
Project Number : 27380XF
Field ID : TRIP

Matrix Type : WATER
Collection Date : 06/09/03
Report Date : 06/11/03
Lab Sample Number : 835288-004

PVOC		Prep Method: SW846 5030B				Prep Date: 06/10/03	Analyst: PMS	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,2,4-Trimethylbenzene	< 0.66	0.66	2.1		ug/l		06/10/03	SW846 M8021B
1,3,5-Trimethylbenzene	< 0.52	0.52	1.7		ug/l		06/10/03	SW846 M8021B
Benzene	< 0.30	0.30	0.96		ug/l		06/10/03	SW846 M8021B
Ethylbenzene	< 0.60	0.60	1.9		ug/l		06/10/03	SW846 M8021B
Methyl-tert-butyl-ether	< 0.58	0.58	1.8		ug/l		06/10/03	SW846 M8021B
Toluene	< 0.58	0.58	1.8		ug/l		06/10/03	SW846 M8021B
Xylene, o	< 0.64	0.64	2.0		ug/l		06/10/03	SW846 M8021B
Xylenes, m + p	< 1.2	1.2	3.8		ug/l		06/10/03	SW846 M8021B
a,a,a-Trifluorotoluene	102				%Recov		06/10/03	SW846 M8021B

En Chem Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
800-7-ENCHEM
Fax: 920-469-8827

Lab Number	TestGroupID	Field ID	Comment
835288-001	PVOC-W	AFTC-44	C - Elevated detection limit due to the foamy nature of the sample.

En Chem, Inc. Cooler Receipt Log

Batch No. 835288

Project Name or ID STS No. of Coolers: 1 Temps: ROI

A. Receipt Phase: Date cooler was opened: 6/9/03 By: JR

- 1: Were samples received on ice? (Must be ≤ 6 C).....YES NO²
- 2: Was there a Temperature Blank?.....YES NO
- 3: Were custody seals present and intact? (Record on COC).....YES NO
- 4: Are COC documents present?.....YES NO²
- 5: Does this Project require quick turn around analysis?.....YES NO
- 6: Is there any sub-work?.....YES NO
- 7: Are there any short hold time tests?.....YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES¹ NO Contacted by/Who _____
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES¹ NO Contacted by/Who _____

B. Check-in Phase: Date samples were Checked-in: 6/9/03 By: JR

- 1: Were all sample containers listed on the COC received and intact?.....YES NO² NA
- 2: Sign the COC as received by En Chem. Completed.....YES NO
- 3: Do sample labels match the COC?YES NO²
- 4: Completed pH check on preserved samples..YES NO NA
(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)
- 5: Do samples have correct chemical preservation?.....YES NO² NA
(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)
- 6: Are dissolved parameters field filtered?.....YES NO² NA
- 7: Are sample volumes adequate for tests requested?YES NO²
- 8: Are VOC samples free of bubbles >6mmYES NO² NA
- 9: Enter samples into logbook. Completed.....YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed.....YES NO NA
- 12: Start Nonconformance form.YES NO NA
- 13: Initiate Subcontracting procedure. Completed.....YES NO NA
- 14: Check laboratory sample number on all containers and COC. JR YES NO NA

Short Hold-time tests:

48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants Sulfite En Core Preservation Color	7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids Aqueous Extractable Organics- ALL Unpreserved VOC's Ash	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
--	---	--

Rev. 4/11/03, Attachment to 1-REC-5.
Subject to QA Audit.

Reviewed by/date RBG/10/03

Test Group Name	835288-001	835288-002	835288-003	835288-004
PVOC	G	G	G	G

WISCONSIN Certification	
G = En Chem Green Bay	405132750 / DATCP: 105 000444
K = En Chem Kimberly	445134030
S = Subcontracted Analysis	

CHAIN OF CUSTODY RECORD

No 36825 vj#



Contact Person Bob Motta
 Phone No. 406-3117 Office CREEK BAY
 Project No. 27380XF PO No. _____
 Project Name _____

Special Handling Request	
<input type="checkbox"/>	Rush
<input type="checkbox"/>	Verbal
<input type="checkbox"/>	Other

RECORD NUMBER _____ THROUGH _____

Laboratory Enchem
 Contact Person Eric Bullcock
 Phone No. _____
 Results Due _____

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
AETC-44	6/9/03		X		3	Water							PVCS	
AETC-45			X		3	"							↓	
AETC-34D			X		3	"							↓	
TRIP 34			-		2	"							↓	

Collected by: <u>Robert Motta</u>	Date <u>6/9/03</u>	Time _____	Delivery by: <u>Robert Motta</u>	Date <u>6/9/03</u>	Time <u>6:45 pm</u>
Received by: <u>Juan Jimenez</u>	Date <u>6/9/03</u>	Time <u>6:45 pm</u>	Relinquished by: <u>J</u>	Date _____	Time _____
Received by: _____	Date _____	Time _____	Relinquished by: _____	Date _____	Time _____
Received by: _____	Date _____	Time _____	Relinquished by: _____	Date _____	Time _____
Received for lab by: _____	Date _____	Time _____	Relinquished by: _____	Date _____	Time _____

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A 835288

Final Disposition: _____	Comments (Weather Conditions, Precautions, Hazards): _____
--------------------------	--

Distribution: Original and Green - Laboratory Yellow - As needed Pink - Transporter Goldenrod - STS Project File
 Instructions to Laboratory: Forward completed original to STS with analytical results. Retain green copy.



Corporate Office & Laboratory
1241 Bellevue Street, Suite 9, Green Bay, WI 54302
920-469-2436, 800-7-ENCHEM, Fax: 920-469-8827
www.enchem.com

Analytical Report Number: 837292


Client : STS CONSULTANTS

Project Name :

Project Number : 27380WG

Lab Sample Number	Field ID	Matrix	Collection Date
837292-001	AFTC-44	WATER	08/04/03
837292-002	AFTC-45	WATER	08/04/03
837292-003	D-45	WATER	08/04/03
837292-004	AFTC-34D	WATER	08/04/03
837292-005	TRIP	WATER	08/04/03

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.


Approval Signature

8/7/03
Date

Analytical Report Number: 837292

Client : STS CONSULTANTS

Matrix Type : WATER

Project Name :

Collection Date : 08/04/03

Project Number : 27380WG

Report Date : 08/06/03

Field ID : AFTC-34D

Lab Sample Number : 837292-004

PVOC

Prep Date: 08/05/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Analysis Date	Prep Method	Analysis Method
1,2,4-Trimethylbenzene	26	3.3	11		5	ug/l		08/05/03	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	11	2.6	8.7		5	ug/l		08/05/03	SW846 5030B	SW846 M8021
Benzene	59	1.5	5.0		5	ug/l		08/05/03	SW846 5030B	SW846 M8021
Ethylbenzene	35	3.0	10		5	ug/l		08/05/03	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	490	2.9	9.7		5	ug/l		08/05/03	SW846 5030B	SW846 M8021
Toluene	< 2.9	2.9	9.7		5	ug/l		08/05/03	SW846 5030B	SW846 M8021
Xylene, o	< 3.2	3.2	11		5	ug/l		08/05/03	SW846 5030B	SW846 M8021
Xylenes, m + p	64	6.0	20		5	ug/l		08/05/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	103				1	%Recov		08/05/03	SW846 5030B	SW846 M8021

Analytical Report Number: 837292

Client : STS CONSULTANTS

Matrix Type : WATER

Project Name :

Collection Date : 08/04/03

Project Number : 27380WG

Report Date : 08/06/03

Field ID : AFTC-44

Lab Sample Number : 837292-001

PVOC

Prep Date: 08/05/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Analysis Date	Prep Method	Analysis Method
1,2,4-Trimethylbenzene	< 0.66	0.66	2.2		1	ug/l	W	08/05/03	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.52	0.52	1.7		1	ug/l	W	08/05/03	SW846 5030B	SW846 M8021
Benzene	< 0.30	0.30	1.0		1	ug/l	W	08/05/03	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.60	0.60	2.0		1	ug/l	W	08/05/03	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	69	0.58	1.9		1	ug/l	W	08/05/03	SW846 5030B	SW846 M8021
Toluene	< 0.58	0.58	1.9		1	ug/l	W	08/05/03	SW846 5030B	SW846 M8021
Xylene, o	< 0.64	0.64	2.1		1	ug/l	W	08/05/03	SW846 5030B	SW846 M8021
Xylenes, m + p	< 1.2	1.2	4.0		1	ug/l	W	08/05/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	100				1	%Recov		08/05/03	SW846 5030B	SW846 M8021

Analytical Report Number: 837292

Client : STS CONSULTANTS

Matrix Type : WATER

Project Name :

Collection Date : 08/04/03

Project Number : 27380WG

Report Date : 08/06/03

Field ID : D-45

Lab Sample Number : 837292-003

PVOC

Prep Date: 08/05/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Analysis Date	Prep Method	Analysis Method
1,2,4-Trimethylbenzene	< 0.66	0.66	2.2		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.52	0.52	1.7		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Benzene	< 0.30	0.30	1.0		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.60	0.60	2.0		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.58	0.58	1.9		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Toluene	< 0.58	0.58	1.9		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Xylene, o	< 0.64	0.64	2.1		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Xylenes, m + p	< 1.2	1.2	4.0		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	100				1	%Recov		08/05/03	SW846 5030B	SW846 M8021

Analytical Report Number: 837292

Client : STS CONSULTANTS

Matrix Type : WATER

Project Name :

Collection Date : 08/04/03

Project Number : 27380WG

Report Date : 08/06/03

Field ID : AFTC-45

Lab Sample Number : 837292-002

PVOC

Prep Date: 08/05/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Analysis Date	Prep Method	Analysis Method
1,2,4-Trimethylbenzene	< 0.66	0.66	2.2		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.52	0.52	1.7		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Benzene	< 0.30	0.30	1.0		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.60	0.60	2.0		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.58	0.58	1.9		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Toluene	< 0.58	0.58	1.9		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Xylene, o	< 0.64	0.64	2.1		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Xylenes, m + p	< 1.2	1.2	4.0		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	101				1	%Recov		08/05/03	SW846 5030B	SW846 M8021

Analytical Report Number: 837292

Client : STS CONSULTANTS
 Project Name :
 Project Number : 27380WG
 Field ID : TRIP

Matrix Type : WATER
 Collection Date : 08/04/03
 Report Date : 08/06/03
 Lab Sample Number : 837292-005

PVOC

Prep Date: 08/05/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Analysis Date	Prep Method	Analysis Method
1,2,4-Trimethylbenzene	< 0.66	0.66	2.2		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
1,3,5-Trimethylbenzene	< 0.52	0.52	1.7		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Benzene	< 0.30	0.30	1.0		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Ethylbenzene	< 0.60	0.60	2.0		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Methyl-tert-butyl-ether	< 0.58	0.58	1.9		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Toluene	< 0.58	0.58	1.9		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Xylene, o	< 0.64	0.64	2.1		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
Xylenes, m + p	< 1.2	1.2	4.0		1	ug/l		08/05/03	SW846 5030B	SW846 M8021
a,a,a-Trifluorotoluene	100				1	%Recov		08/05/03	SW846 5030B	SW846 M8021

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis using the inductively coupled plasma (ICP), the serial dilution failed to meet the established control limits of 0-10% and the sample concentration is greater than 50 times the IDL (100 times the IDL for analysis done on the ICP-MS). The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
H	All	Preservation, extraction or analysis performed past holding time.
J	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
J	Organic	Concentration detected is greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
N	All	Spiked sample recovery not within control limits.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

En Chem Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

1090 Kennedy Avenue
Kimberly, WI 54136

Test Group Name	837292-001	837292-002	837292-003	837292-004	837292-005
PVOC	G	G	G	G	G

Wisconsin Certification	
G = En Chem Green Bay	405132750 / DATCP: 105 000444
K = En Chem Kimberly	445134030
S = Subcontracted Analysis	

En Chem, Inc. Cooler Receipt Log

Batch No. 837292

Project Name or ID 27380WE

No. of Coolers: 1

Temps: NOI

A. Receipt Phase: Date cooler was opened: 8/4/03 By: J. W. Wainman

- 1: Were samples received on ice? (Must be ≤ 6 C).....YES NO²
- 2: Was there a Temperature Blank?.....YES NO
- 3: Were custody seals present and intact? (Record on COC).....YES NO
- 4: Are COC documents present?.....YES NO²
- 5: Does this Project require quick turn around analysis?.....YES NO
- 6: Is there any sub-work?.....YES NO
- 7: Are there any short hold time tests?.....YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days).....YES¹ NO Contacted by/Who _____
- 9: Do any samples need to be Filtered or Preserved in the lab?.....YES¹ NO Contacted by/Who _____

B. Check-In Phase: Date samples were Checked-in: 8/4/03 By: J. W. Wainman

- 1: Were all sample containers listed on the COC received and intact?.....YES NO² NA
- 2: Sign the COC as received by En Chem. Completed.....YES NO
- 3: Do sample labels match the COC?YES NO²
- 4: Completed pH check on preserved samples.....YES NO NA
(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)
- 5: Do samples have correct chemical preservation?.....YES NO² NA
(This statement does not apply to water: VOC, O&G, TOC, DRO, Total Rec. Phenolics)
- 6: Are dissolved parameters field filtered?.....YES NO² NA
- 7: Are sample volumes adequate for tests requested?YES NO²
- 8: Are VOC samples free of bubbles >6mmYES NO² NA
- 9: Enter samples into logbook. Completed.....YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed.....YES NO NA
- 12: Start Nonconformance form.YES NO NA
- 13: Initiate Subcontracting procedure. Completed.....YES NO NA
- 14: Check laboratory sample number on all containers and COC. VR YES NO NA

Short Hold-time tests:

48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants Sulfite En Core Preservation Color	7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids Aqueous Extractable Organics- ALL Unpreserved VOC's Ash	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
--	---	--

Rev. 4/11/03, Attachment to 1-REC-5.
Subject to QA Audit.

Reviewed by/date JB 8/5/03

Tyco Safety Products - Ansul
STS Project No. 4-27380W

Appendix C

Chromatograms

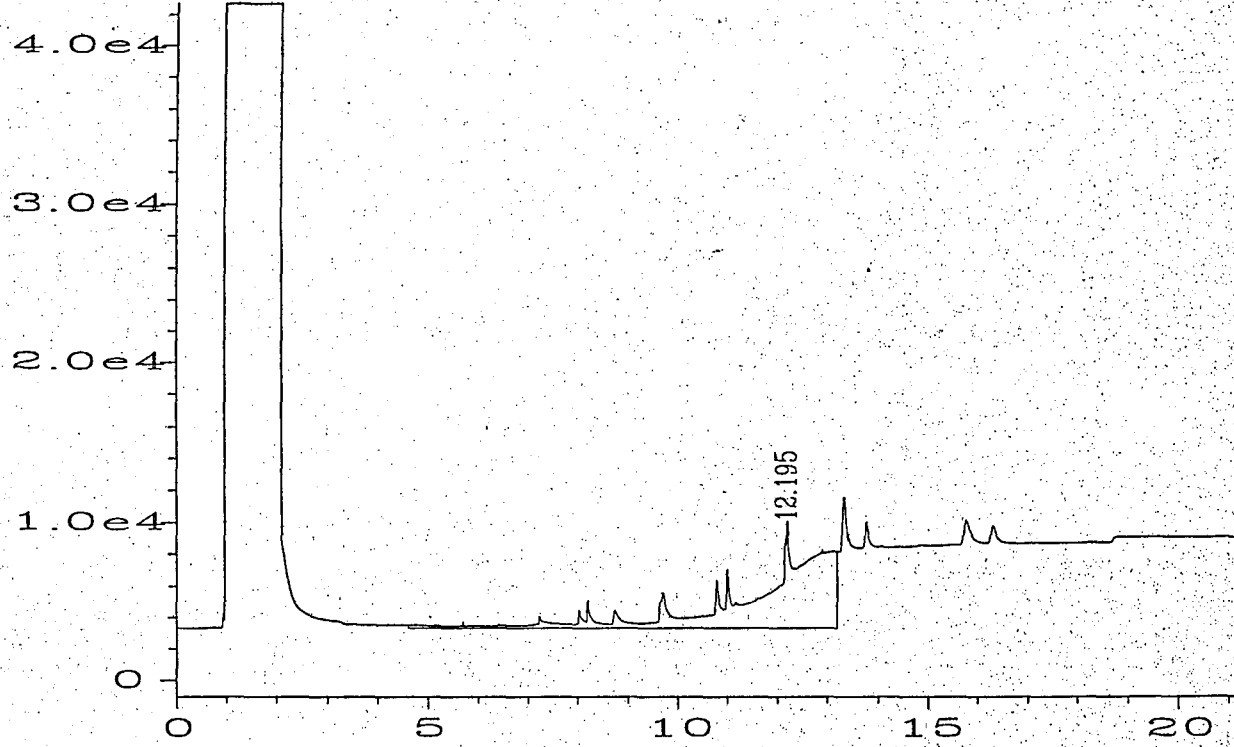
Hydraulic Conductivity Testing Reports (2)

Hydraulic Gradient Calculations (2)



828875-007 (27)

user modified



Data File Name : G:\HPCHEM\3\DATA\120402\006R0101.D

Operator : KEG

Page Number : 1

Instrument : DRO

Vial Number : 6

Sample Name : 28875D007WIR20

Injection Number : 1

Run Time Bar Code:

Sequence Line : 1

Acquired on : 04 Dec 02 11:32 AM

Instrument Method: IQUICK.MTH

Report Created on: 04 Dec 02 11:58 AM

Analysis Method : IQUICK.MTH

Last Recalib on : 20 JUN 93 01:52 PM

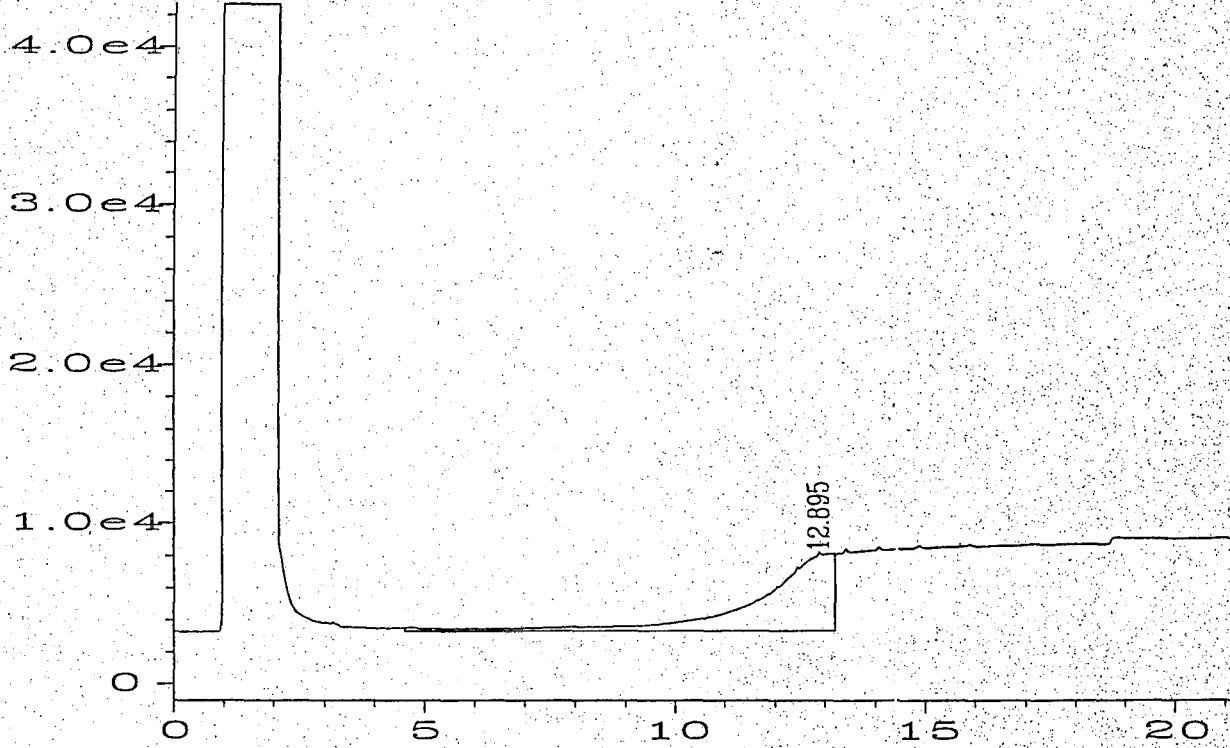
Sample Amount : 0

Multiplier : 1

ISTD Amount :

828875-008 (325)

user modified



Data File Name : G:\HPCHEM\3\DATA\120402\007R0101.D

Operator : KEG

Page Number : 1

Instrument : DRO

Vial Number : 7

Sample Name : 28875D008WIR20

Injection Number : 1

Run Time Bar Code:

Sequence Line : 1

Acquired On : 04 Dec 02 11:59 AM

Instrument Method: IQUICK.MTH

Report Created on: 04 Dec 02 12:25 PM

Analysis Method : IQUICK.MTH

Last Recalib on : 20 JUN 93 01:52 PM

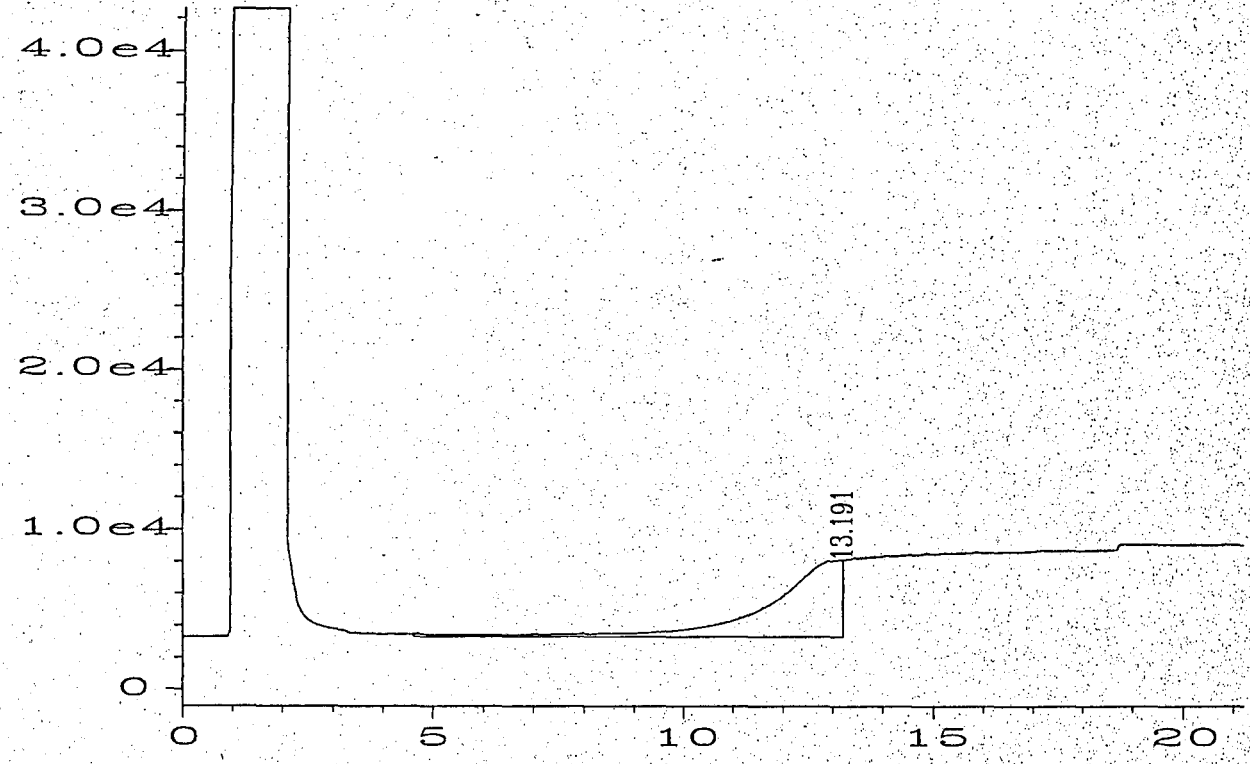
Sample Amount : 0

Multiplier : 1

ISTD Amount :

828875-010 (335)

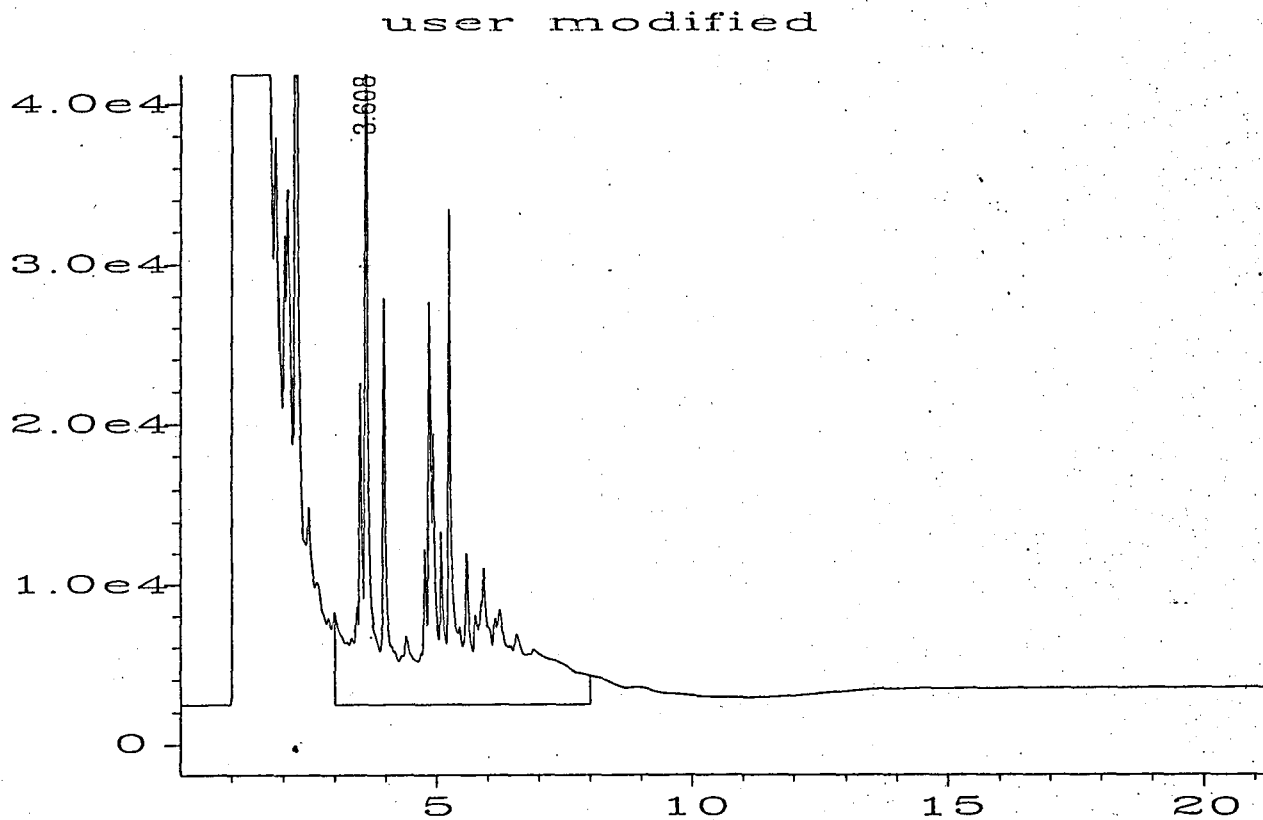
user modified



Data File Name : G:\HPCHEM\3\DATA\120402\008R0101.D
Operator : KEG
Instrument : DRO
Sample Name : 28875D010WIR20
Run Time Bar Code :
Acquired on : 04 Dec 02 12:25 PM
Report Created on: 04 Dec 02 12:51 PM
Last Recalib on : 20 JUN 93 01:52 PM
Multiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: 1QUICK.MTH
Analysis Method : 1QUICK.MTH
Sample Amount : 0
ISTD Amount :

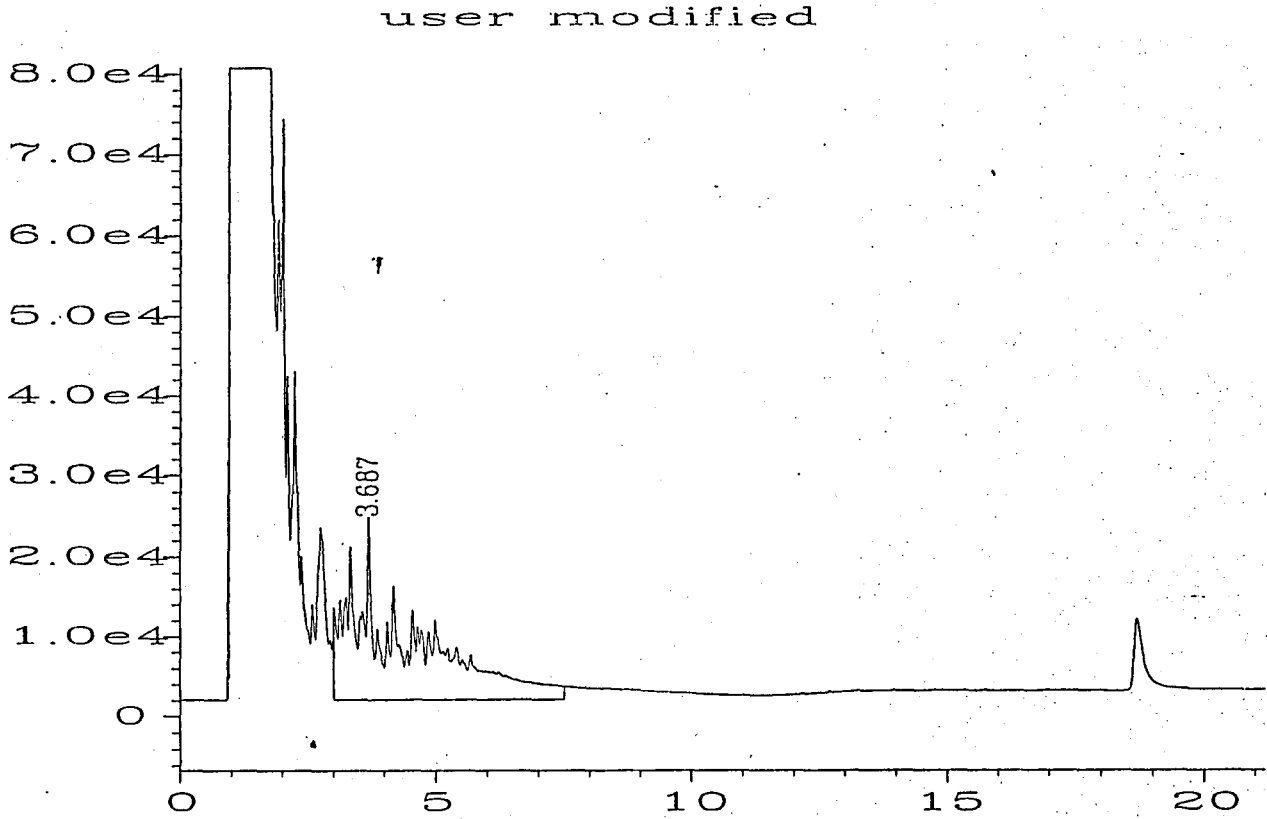
Gasoline



Data File Name : G:\HPCHEM\11\DATA\011901\099R0101.D
Operator : DJB
Instrument : DRO4
Sample Name : PPM500 747-74-16
Run Time Bar Code :
Acquired on : 19 Jan 01 08:44 AM
Report Created on: 19 Jan 01 09:10 AM
Last Recalib on : 20 JUN 93 01:52 PM
Multiplier : 1

Page Number : 1
Vial Number : 99
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHGAS.MTH
Analysis Method : TPHGAS.MTH
Sample Amount : 0
ISTD Amount :

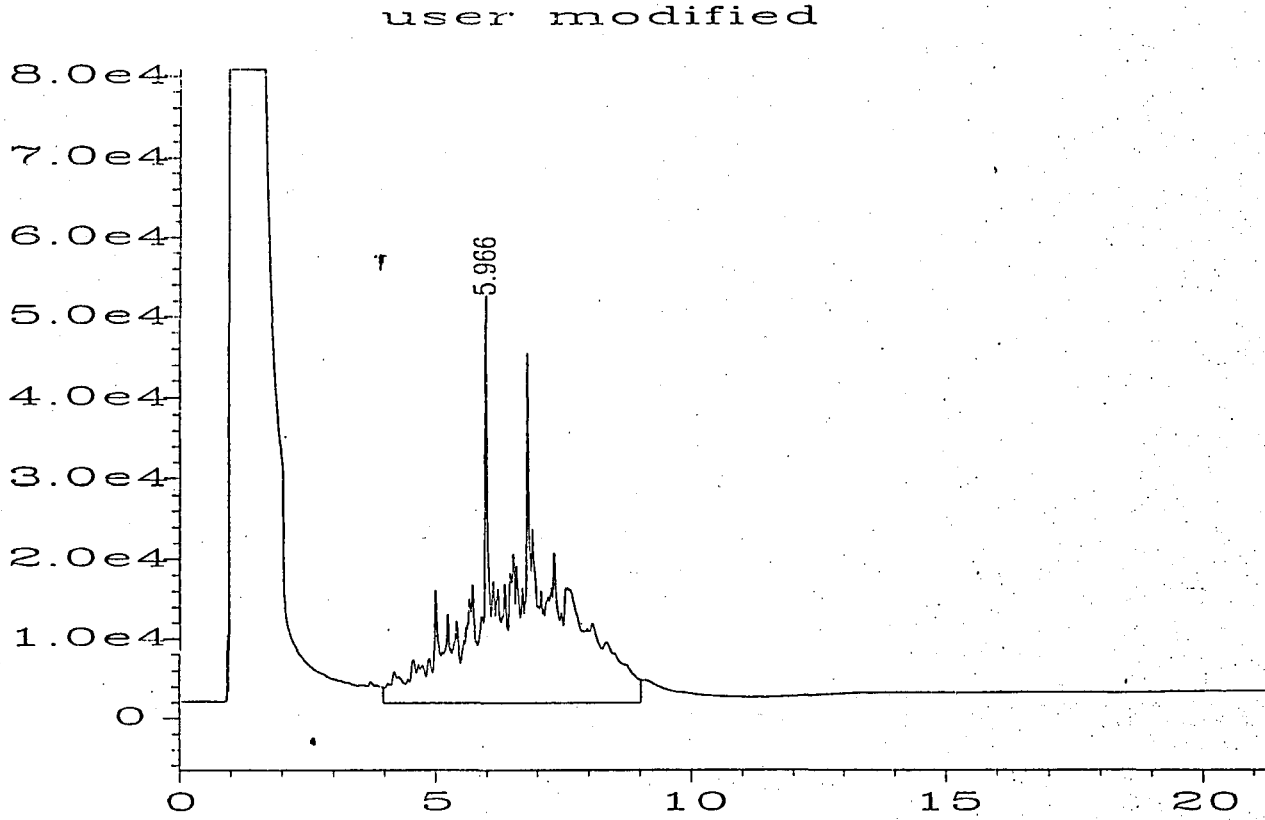
JP-4 Jet fuel



Data File Name : G:\HPCHEM\11\DATA\012901\002R0101.D
Operator : DJB
Instrument : DRO4
Sample Name : PPM500 747-69-18
Run Time Bar Code :
Acquired on : 29 Jan 01 02:15 PM
Report Created on: 29 Jan 01 02:45 PM
Last Recalib on : 20 JUN 93 01:52 PM
Multiplier : 1

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHDRO.MTH
Analysis Method : TPHJP4.MTH
Sample Amount : 0
ISTD Amount :

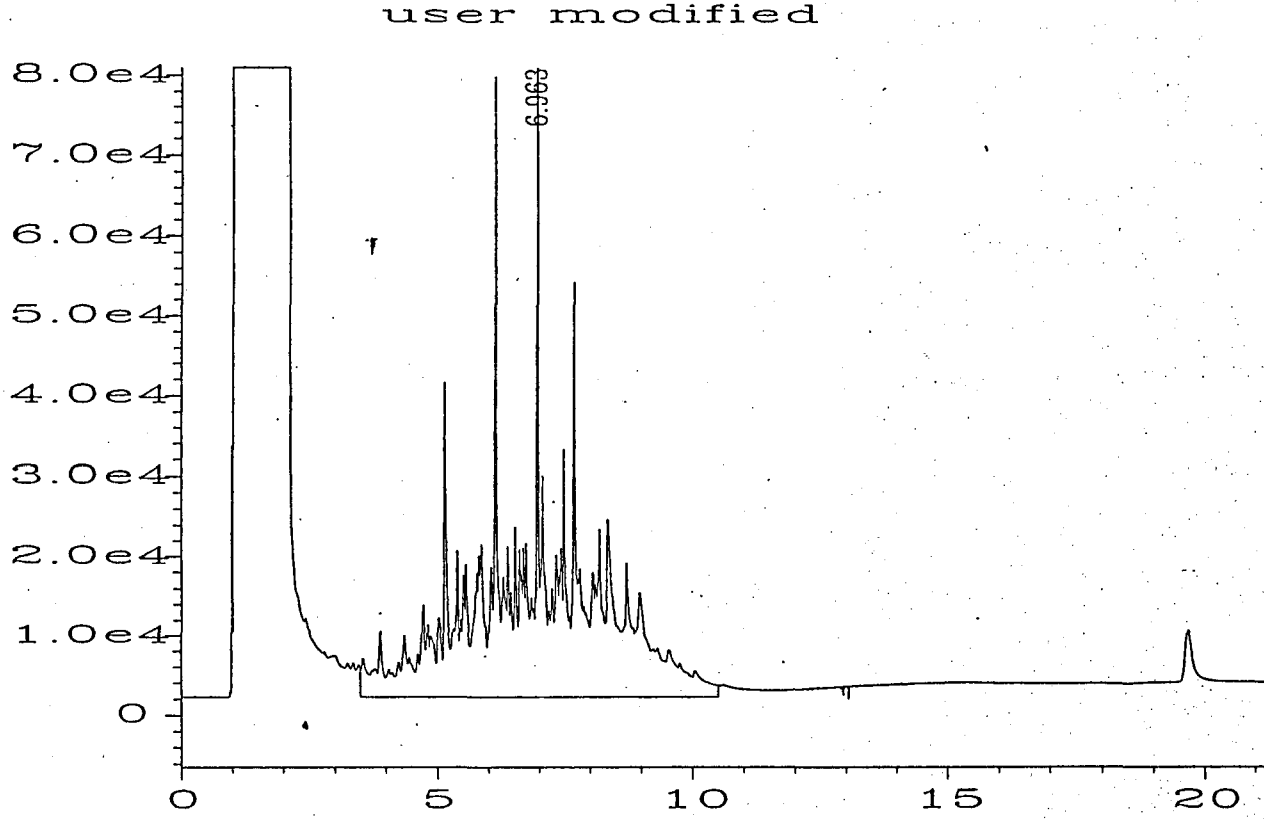
JP-5 Jet fuel



Data File Name : G:\HPCHEM\11\DATA\012901\003R0101.D
Operator : DJB
Instrument : DRO4
Sample Name : PPM500 747-77-06
Run Time Bar Code :
Acquired on : 29 Jan 01 02:41 PM
Report Created on : 29 Jan 01 03:12 PM
Last Recalib on : 20 JUN 93 01:52 PM
Multiplier : 1

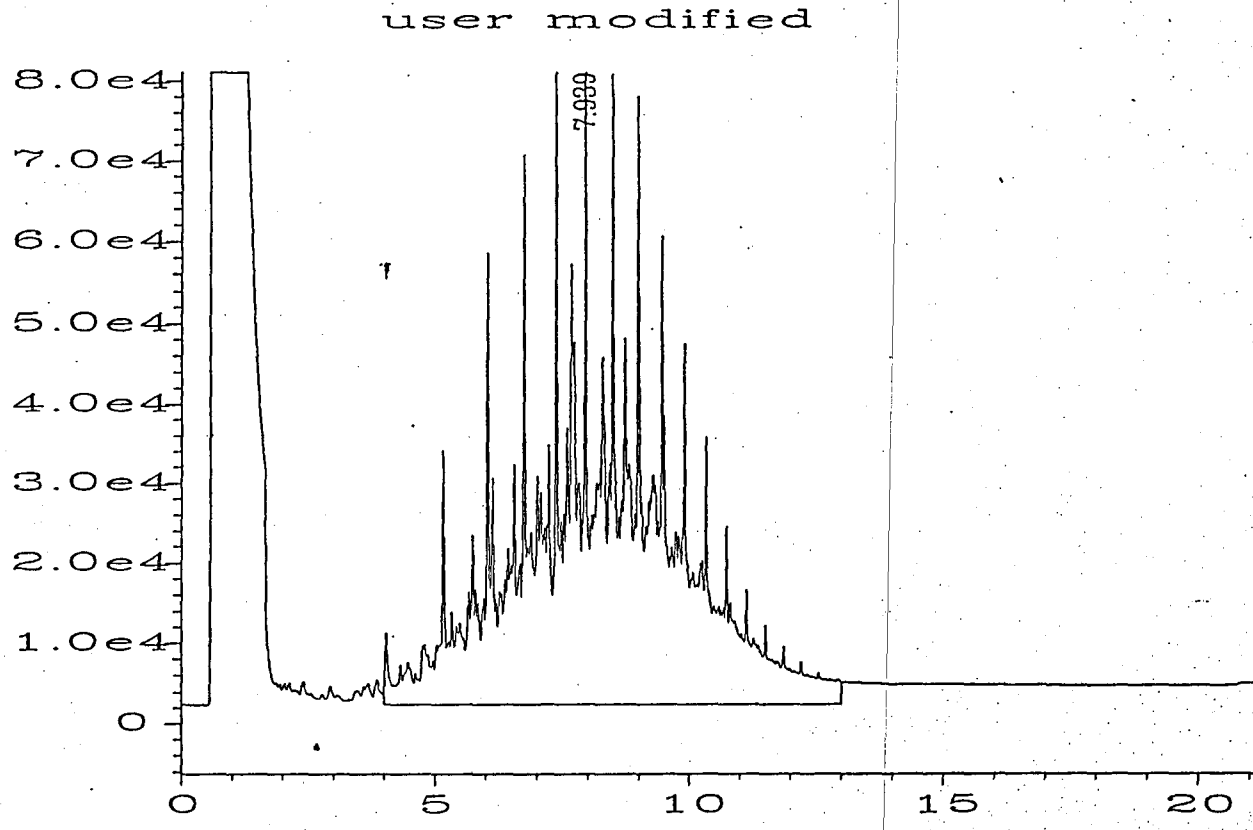
Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 1
Instrument Method : TPHDRO.MTH
Analysis Method : TPHJJP5.MTH
Sample Amount : 0
ISTD Amount :

Kerosene



Data File Name : G:\HPCHEM\11\DATA\121100\020R0301.D
Operator : DJB
Instrument : DRO4
Sample Name : PPM500 747-68-07
Injection Number : 1
Sequence Line : 3
Acquired on : 11 Dec 00 11:58 AM
Instrument Method: TPHKER.MTH
Report Created on: 11 Dec 00 12:24 PM
Analysis Method : TPHKER.MTH
Vial Number : 20
Sample Amount : 0
ISTD Amount : 1
Multiplier : 1

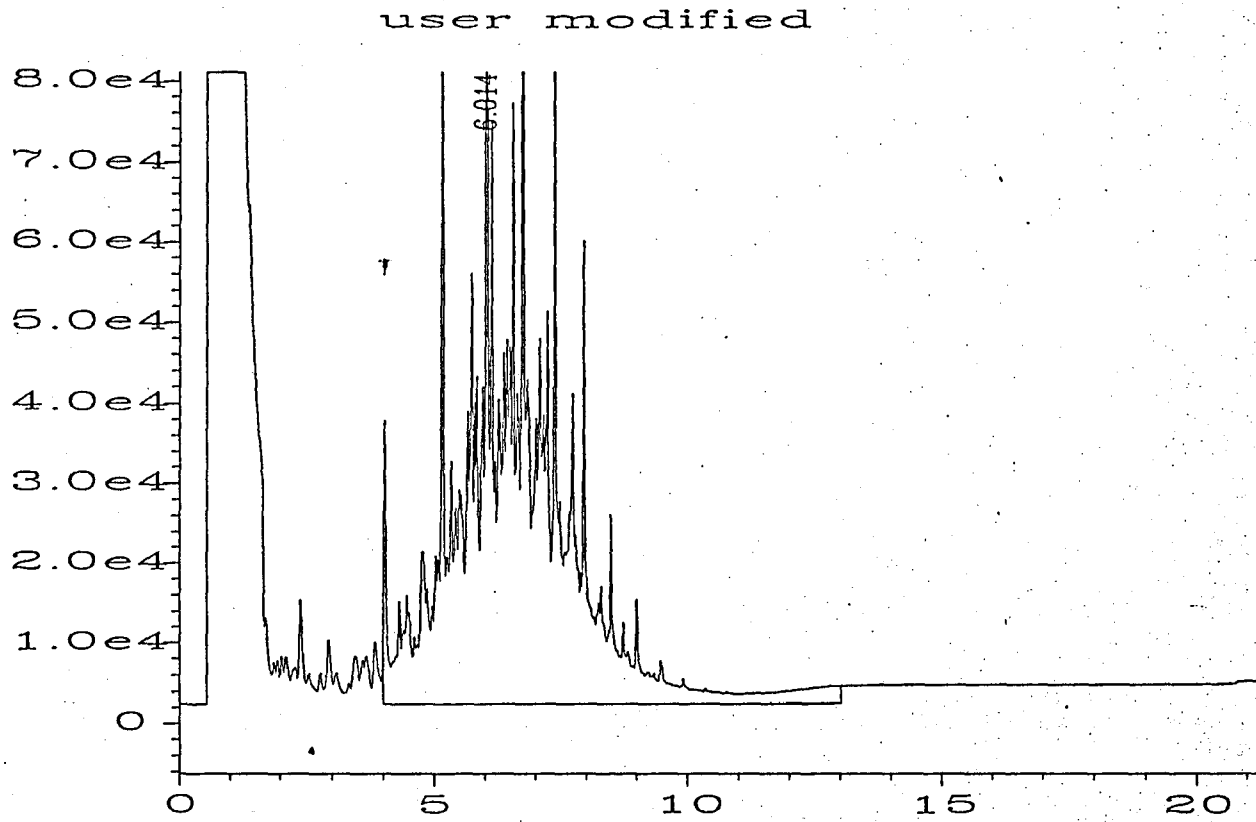
#4 fuel oil



Data File Name : G:\HPCHEM\6\DATA\121300\012F0101.D
Operator : DJB
Instrument : DRO2
Sample Name : 1000PPM #4 FUEL
Run Time Bar Code :
Acquired on : 13 Dec 00 12:05 PM
Report Created on : 13 Dec 00 12:31 PM
Last Recalib on : 31 OCT 96 01:10 PM
Multiplier : 1

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHDRO.MTH
Analysis Method : TPHDRO.MTH
Sample Amount : 0
ISTD Amount :

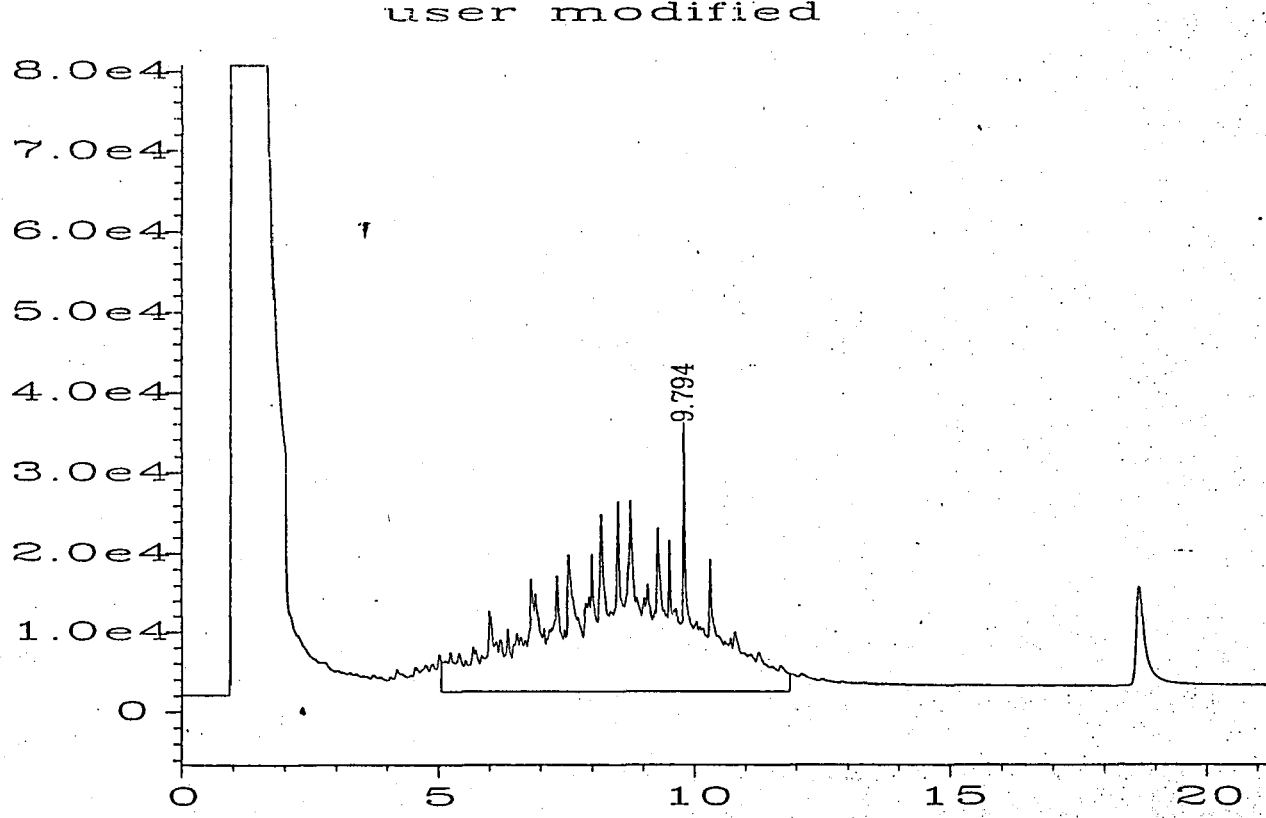
Jet fuel



Data File Name : G:\HPCHEM\6\DATA\121300\011F0101.D

Operator	: DJB	Page Number	: 1
Instrument	: DRO2	Vial Number	: 11
Sample Name	: 1000PPM JET FUEL	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 13 Dec 00 11:38 AM	Instrument Method	: TPHDRO.MTH
Report Created on:	13 Dec 00 12:04 PM	Analysis Method	: TPHDRO.MTH
Last Recalib on	: 31 OCT 96 01:10 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

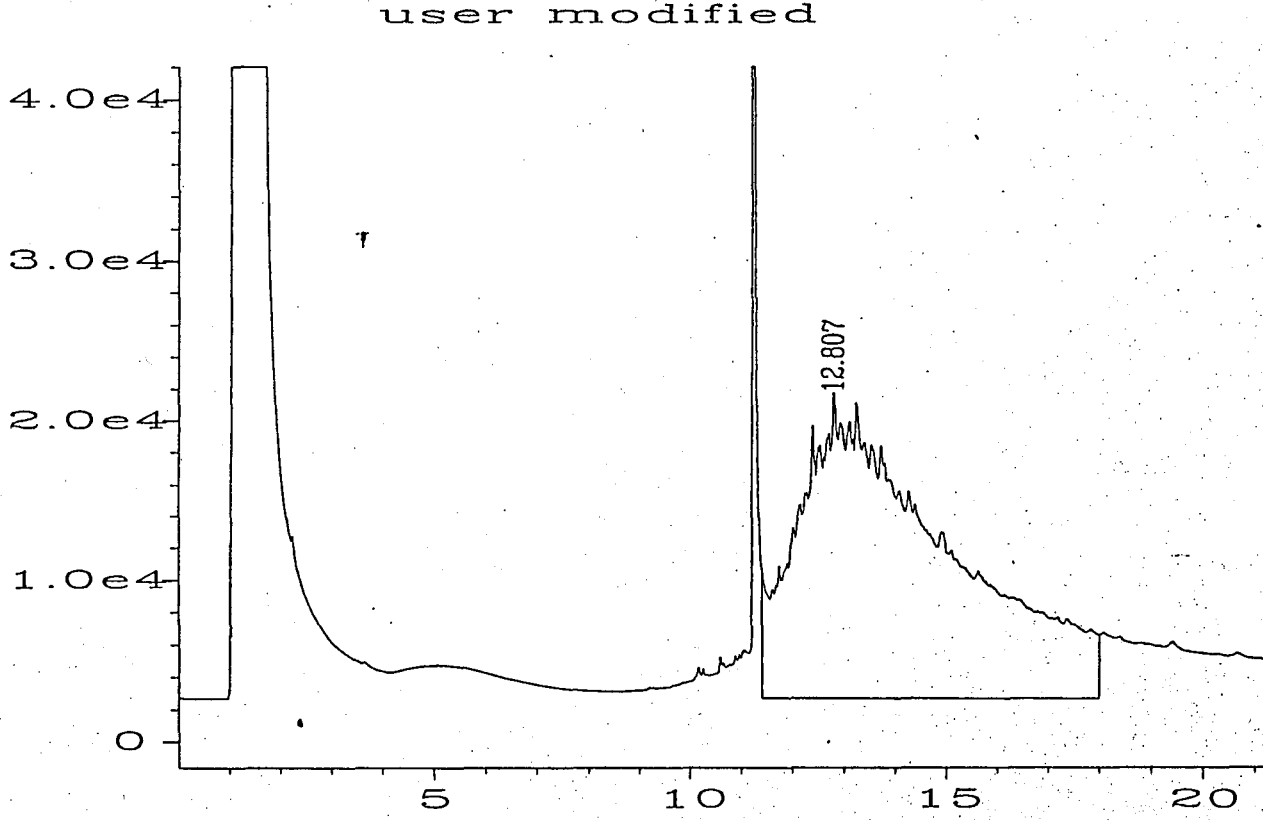
#2 fuel oil



File Name : G:\HPCHEM\11\DATA\012901\004R0101.D
Operator : DJB
Instrument : DRO4
Sample Name : PPM500 747-76-09
Time Bar Code :
Acquired on : 29 Jan 01 03:07 PM
Report Created on : 29 Jan 01 03:35 PM
Next Recalib on : 20 JUN 93 01:52 PM
Multiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHDRO.MTH
Analysis Method : TPHDRO.MTH
Sample Amount : 0
ISTD Amount :

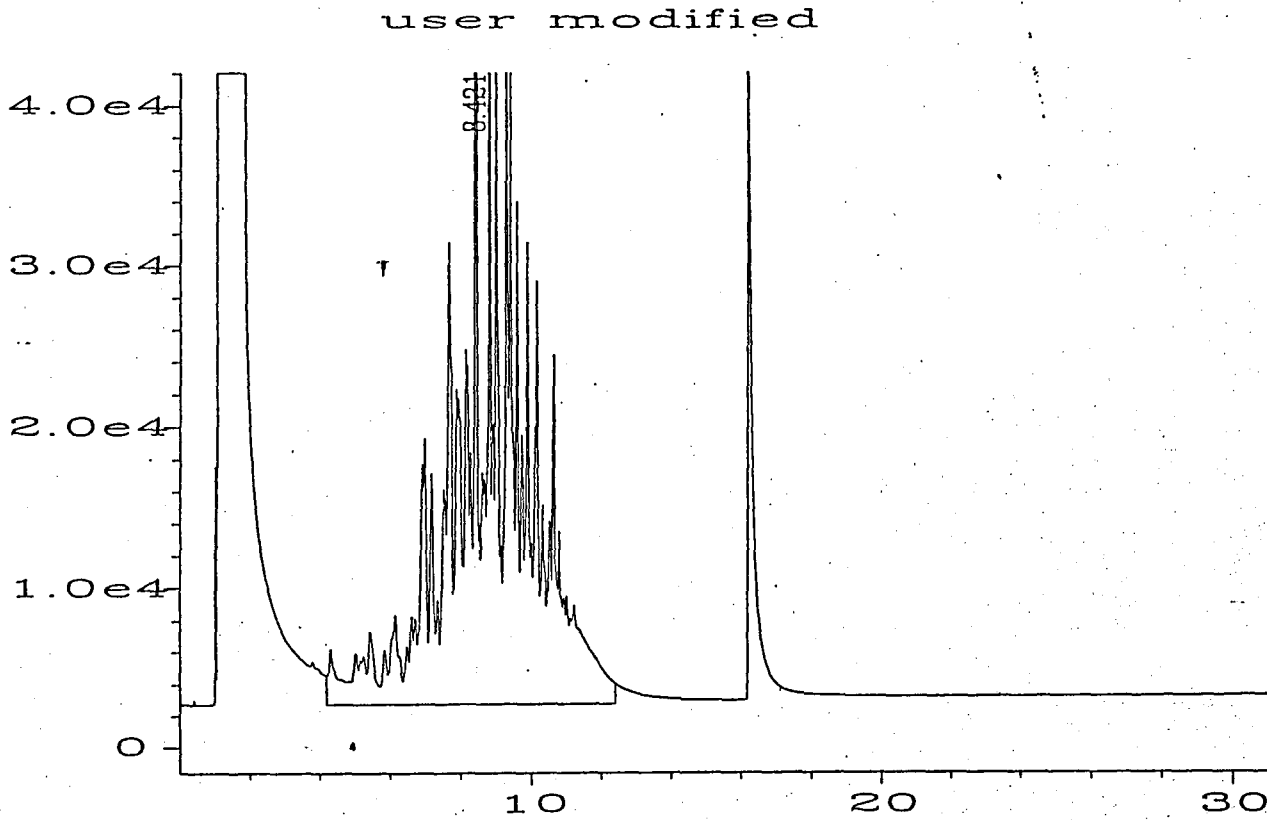
Motor oil/Waste oil



File Name : G:\HPCHEM\11\DATA\011001\099R0101.D
Operator : DJB
Instrument : DRO4
Sample Name : EPM500 747-40-17
Time Bar Code :
Acquired on : 10 Jan 01 08:03 AM
Port Created on: 10 Jan 01 08:29 AM
Last Recalib on : 20 JUN 93 01:52 PM
Multiplier : 1

Page Number : 1
Vial Number : 99
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHOIL.MTH
Analysis Method : TPHOIL.MTH
Sample Amount : 0
ISTD Amount :

Mineral Spirits



Data File Name : G:\HPCHEM\11\DATA\010501\099R0101.D

Operator : DJB

Page Number : 1

Instrument : DRO4

Vial Number : 99

Sample Name : PPM500 747-65-21

Injection Number : 1

Run Time Bar Code:

Sequence Line : 1

Acquired on : 05 Jan 01 09:57 AM

Instrument Method: MINSPT.MTH

Report Created on: 05 Jan 01 10:33 AM

Analysis Method : MINSPT.MTH

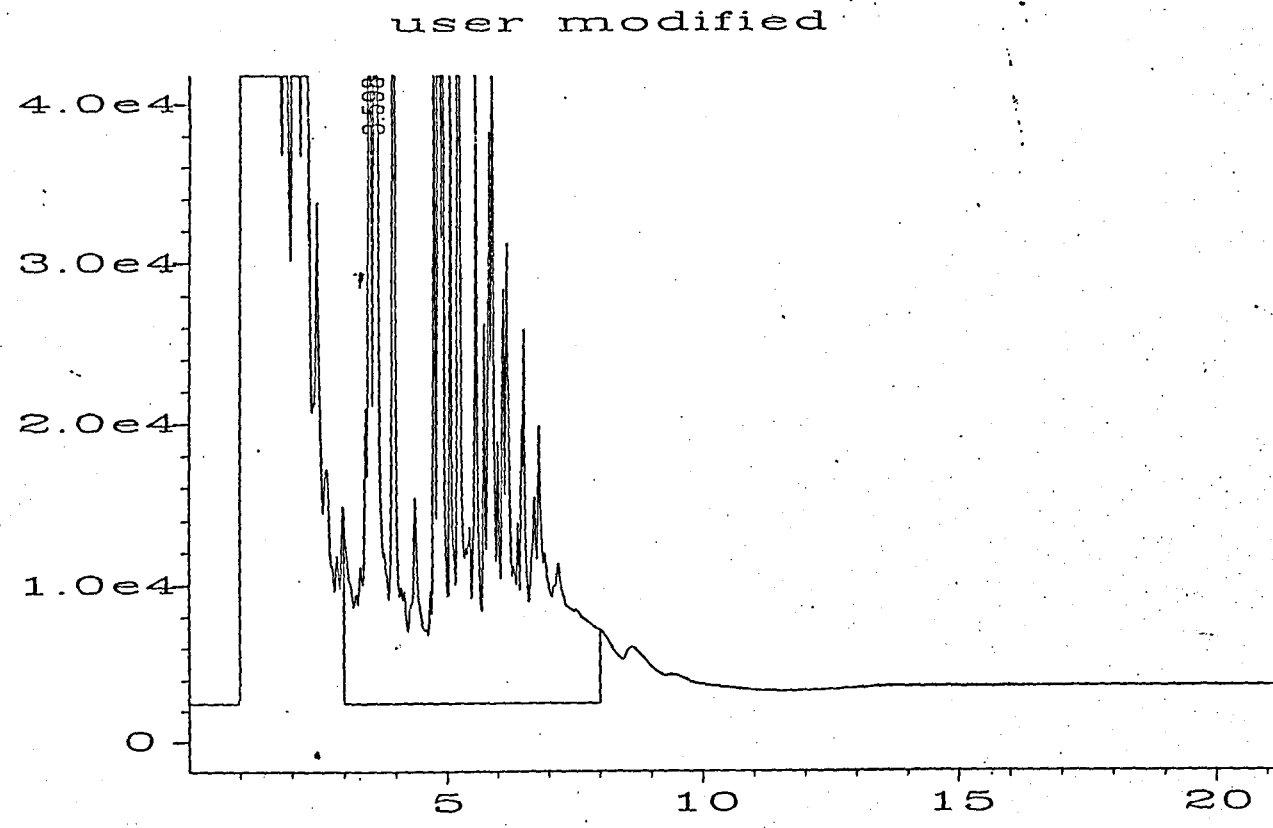
Last Recalib on : 20 JUN 93 01:52 PM

Sample Amount : 0

Multiplier : 1

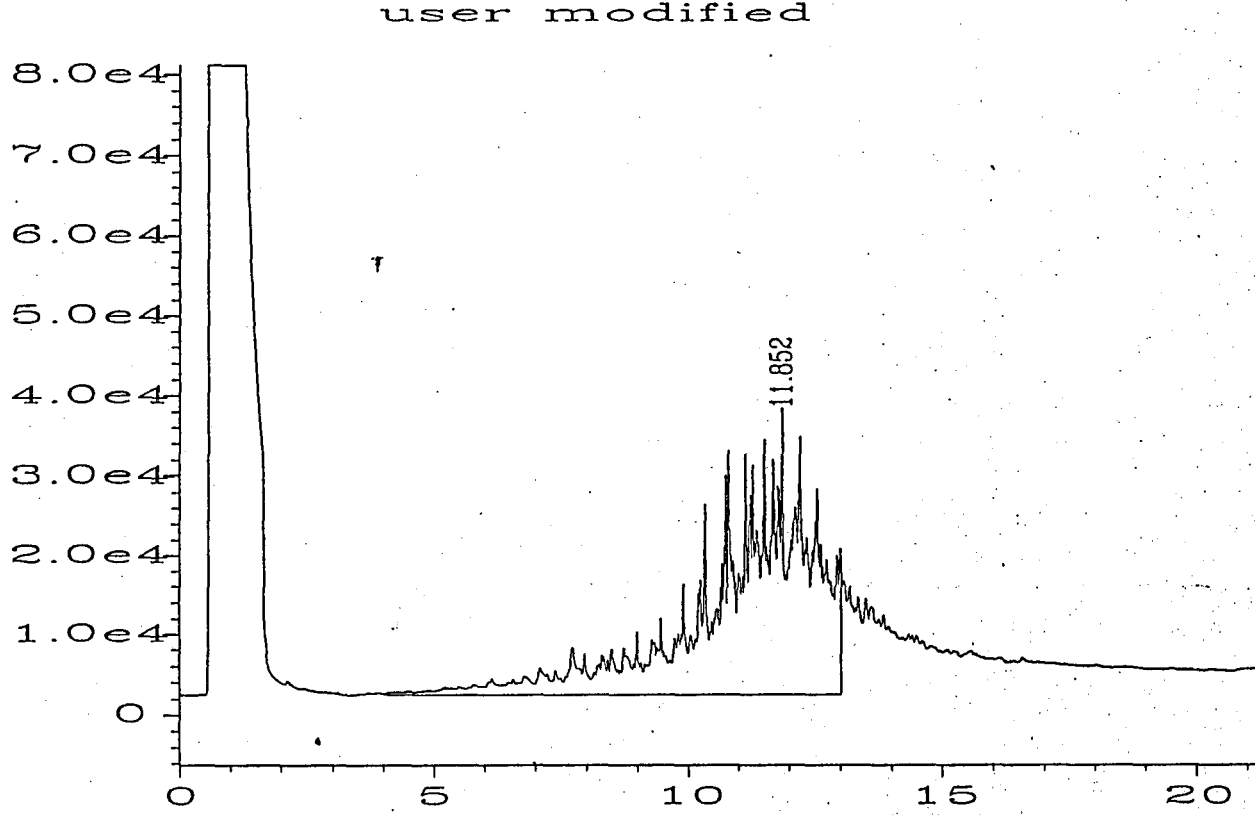
ISTD Amount : :

Gasoline



Data File Name : G:\HPCHEM\11\DATA\011901\100R0101.D
Operator : DJB Page Number : 1
Instrument : DRO4 Vial Number : 100
Sample Name : PM2000 747-74-15 Injection Number : 1
Run Time Bar Code: Sequence Line : 1
Acquired on : 19 Jan 01 09:10 AM Instrument Method: TPHGAS.MTH
Report Created on: 19 Jan 01 09:36 AM Analysis Method : TPHGAS.MTH
Last Recalib on : 20 JUN 93 01:52 PM Sample Amount : 0
Multiplier : 1 ISTD Amount :

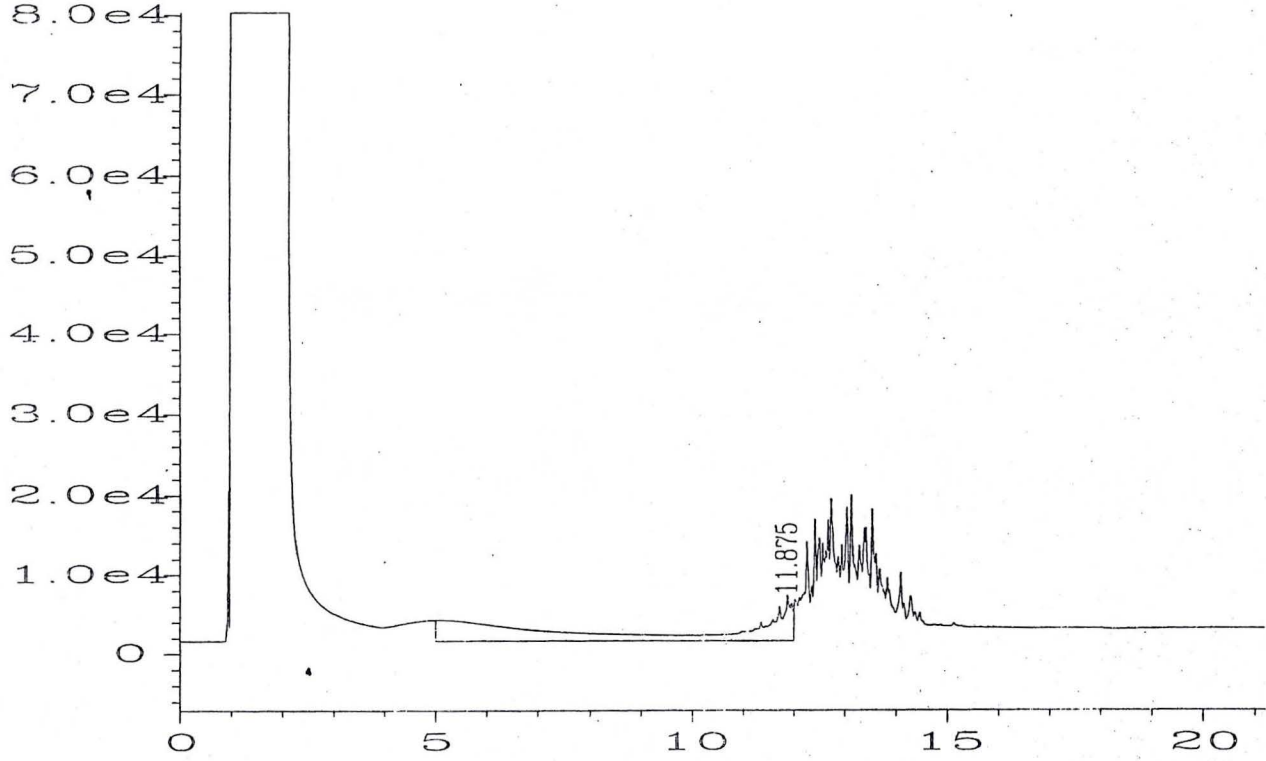
#6 fuel oil



Data File Name : G:\HPCHEM\6\DATA\121300\014F0101.D
Operator : DJB
Instrument : DRO2
Sample Name : 1000PPM #6 FUEL
Run Time Bar Code :
Acquired on : 13 Dec 00 12:58 PM
Report Created on : 13 Dec 00 01:25 PM
Last Recalib on : 31 OCT 96 01:10 PM
Multiplier : 1

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method : TPHDRO.MTH
Analysis Method : TPHDRO.MTH
Sample Amount : 0
ISTD Amount :

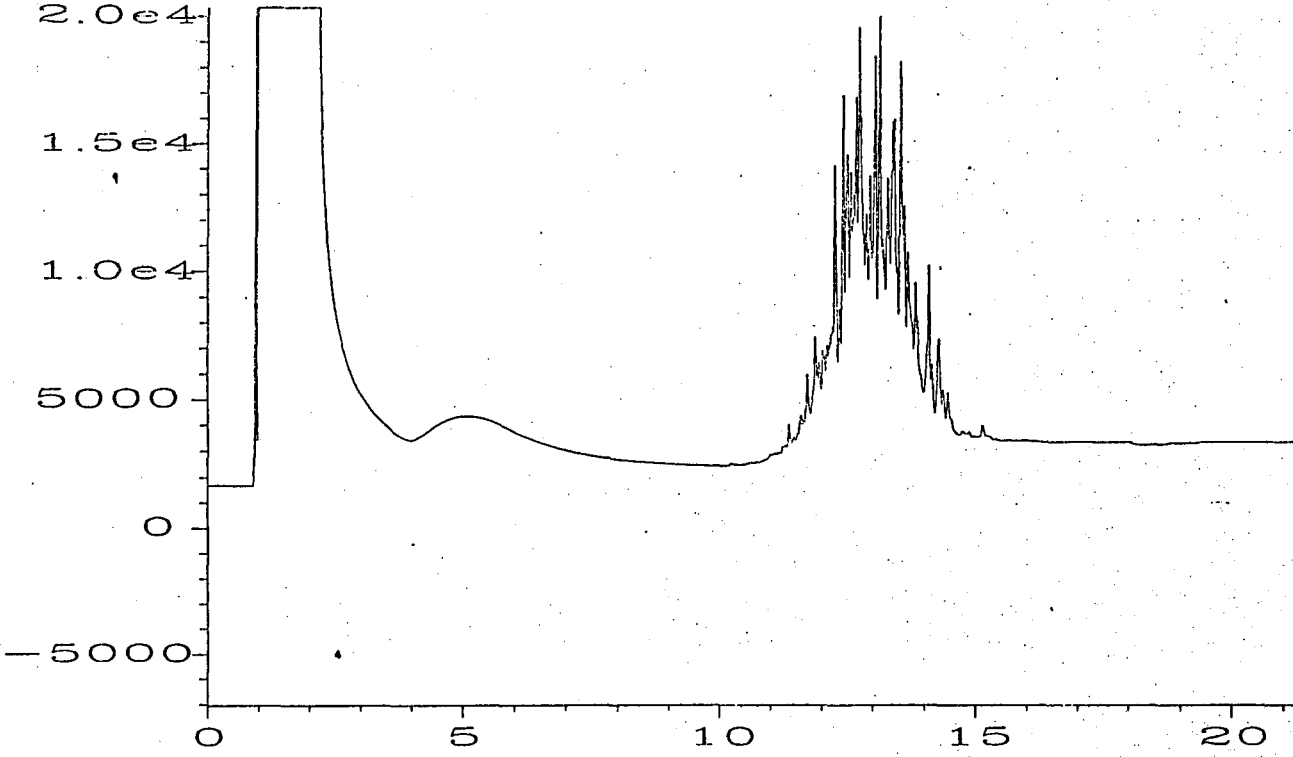
Toxaphene



user modified

Data File Name : G:\HPCHEM\11\DATA\021401\017R0301.D
Operator : DJB Page Number : 1
Instrument : DRO4 Vial Number : 17
Sample Name : 500TOX 747-80-02 Injection Number : 1
Run Time Bar Code : Sequence Line : 3
Acquired on : 14 Feb 01 03:46 PM Instrument Method: TPHDRO.MTH
Report Created on: 14 Feb 01 04:12 PM Analysis Method : TPHDRO.MTH
Last Recalib on : 20 JUN 93 01:52 PM Sample Amount : 0
Multiplier : 1 ISTD Amount :

Taxaphene



Data File Name : G:\HPCHEM\11\DATA\021401\017R0301.D
Operator : DJB Page Number : 1
Instrument : DR04 Vial Number : 17
Sample Name : 500TOX 747-80-02 Injection Number : 1
Run Time Bar Code : Sequence Line : 3
Acquired on : 14 Feb 01 03:46 PM Instrument Method: TPHDRO.M
Report Created on: 15 Feb 01 06:36 AM Analysis Method : TPHDRO.M
Last Recalib on : 20 JUN 93 01:52 PM Sample Amount : 0
Multiplier : 1 ISTD Amount :

Ansul Fire Technology Center
 Field Hydraulic Conductivity Analysis: Well MW-2D
 Bouwer & Rice Method
 Partially Penetrating Piezometer in an Unconfined Aquifer

	ft	cm	
r_c	0.085	2.6	Radius of Well Casing
r_w	0.34	10.4	Radius of Borehole/Well
L_w	24.6	749.8	Vertical Distance from Static Water Level to Bottom of Well
L_e	8.00	243.8	Vertical Length of Saturated Filter Pack
H	35	1066.8	Vertical Distance from Static Water Level to Impermeable Boundary
y_o	0.72	21.9	Change in Water Level at Time 0
y_t	0.1	3.0	Change in Water Level at Time t
t	15	15	Time which Corresponds to y_t (sec)
A	2.3	2.3	Well Geometry Parameter (dimensionless)
B	0.4	0.4	Well Geometry Parameter (dimensionless)
Part1	0.257	0.257	Portion of $\ln(R_e/r_w)$ Calculation
Part2	0.156	0.156	Portion of $\ln(R_e/r_w)$ Calculation
$\ln(R_e/r_w)$	2.422	2.422	
	(ft/sec)	(cm/sec)	
K	1.4E-04	4.4E-03	Hydraulic Conductivity

Where:

$$K = r_c^2 * \ln(R_e/r_w) / 2L_e * 1/t * \ln(y_o/y_t)$$

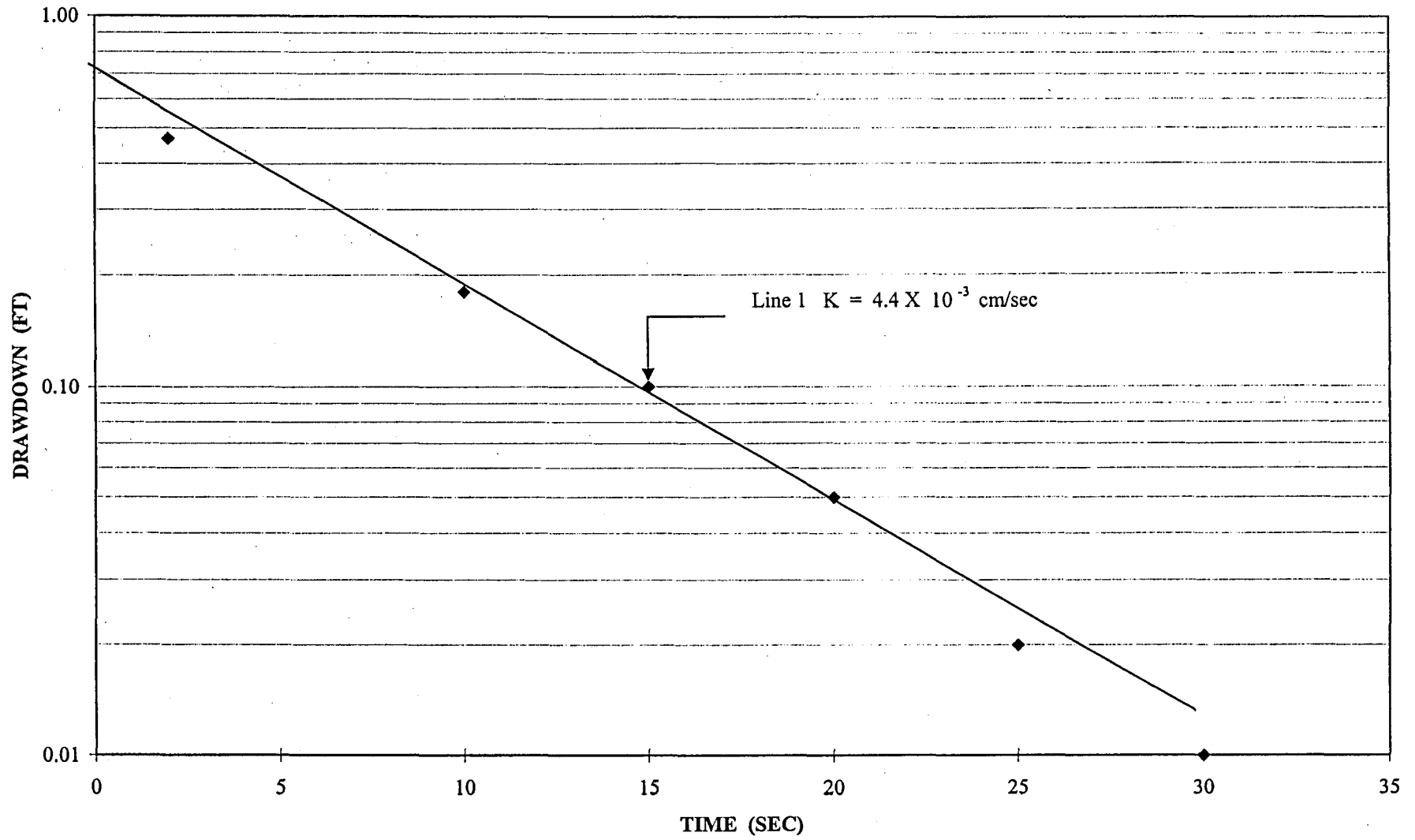
$$\ln(R_e/r_w) = \{1.1/\ln(L_w/r_w) + [A+B\ln[(H-L_w)/r_w]]/(L_e/r_w)\}^{-1}$$

$$\ln(R_e/r_w) = \{"Part 1" + "Part 2"\}^{-1}$$

Calculated by: Bob Mottl 1/13/03

Checked by: *JED* 1/30/03

DRAWDOWN: AFTC MW-2D



Ansul Fire Technology Center MW-2D (11-21-02)

static water table =		7.48
<i>time</i>	<i>water level</i>	<i>drawdown</i>
(seconds)	(feet)	(feet)
2	7.95	0.47
10	7.66	0.18
15	7.58	0.10
20	7.53	0.05
25	7.50	0.02
30	7.49	0.01

Ansul Fire Technology Center
 Field Hydraulic Conductivity Analysis: Well MW-29
 Bouwer & Rice Method
 Partially Penetrating Well in an Unconfined Aquifer

	ft	cm	
r_c	0.085	2.6	Radius of Well Casing
r_w	0.34	10.4	Radius of Borehole/Well
L_w	6.19	188.7	Vertical Distance from Static Water Level to Bottom of Well
L_e	6.19	188.7	Vertical Length of Saturated Filter Pack
H	40	1219.2	Vertical Distance from Static Water Level to Impermeable Boundary
n	0.3	0.3	Filter Pack Porosity
r_{eq}	0.20	6.08	Equivalent Casing Radius
y_o	0.29	8.8	Change in Water Level at Time 0
y_t	0.08	2.4	Change in Water Level at Time t
t	70	70	Time which Corresponds to y_t (sec)
A	2	2	Well Geometry Parameter (dimensionless)
B	0.4	0.4	Well Geometry Parameter (dimensionless)
Part1	0.379	0.379	Portion of $\ln(R_e/r_w)$ Calculation
Part2	0.211	0.211	Portion of $\ln(R_e/r_w)$ Calculation
$\ln(R_e/r_w)$	1.695	1.695	
	(ft/sec)	(cm/sec)	
K	1.0E-04	3.1E-03	Hydraulic Conductivity

Where:

$$K = \frac{r_{eq}^2}{2L_e} \ln(R_e/r_w) \cdot \frac{1}{t} \ln(y_o/y_t)$$

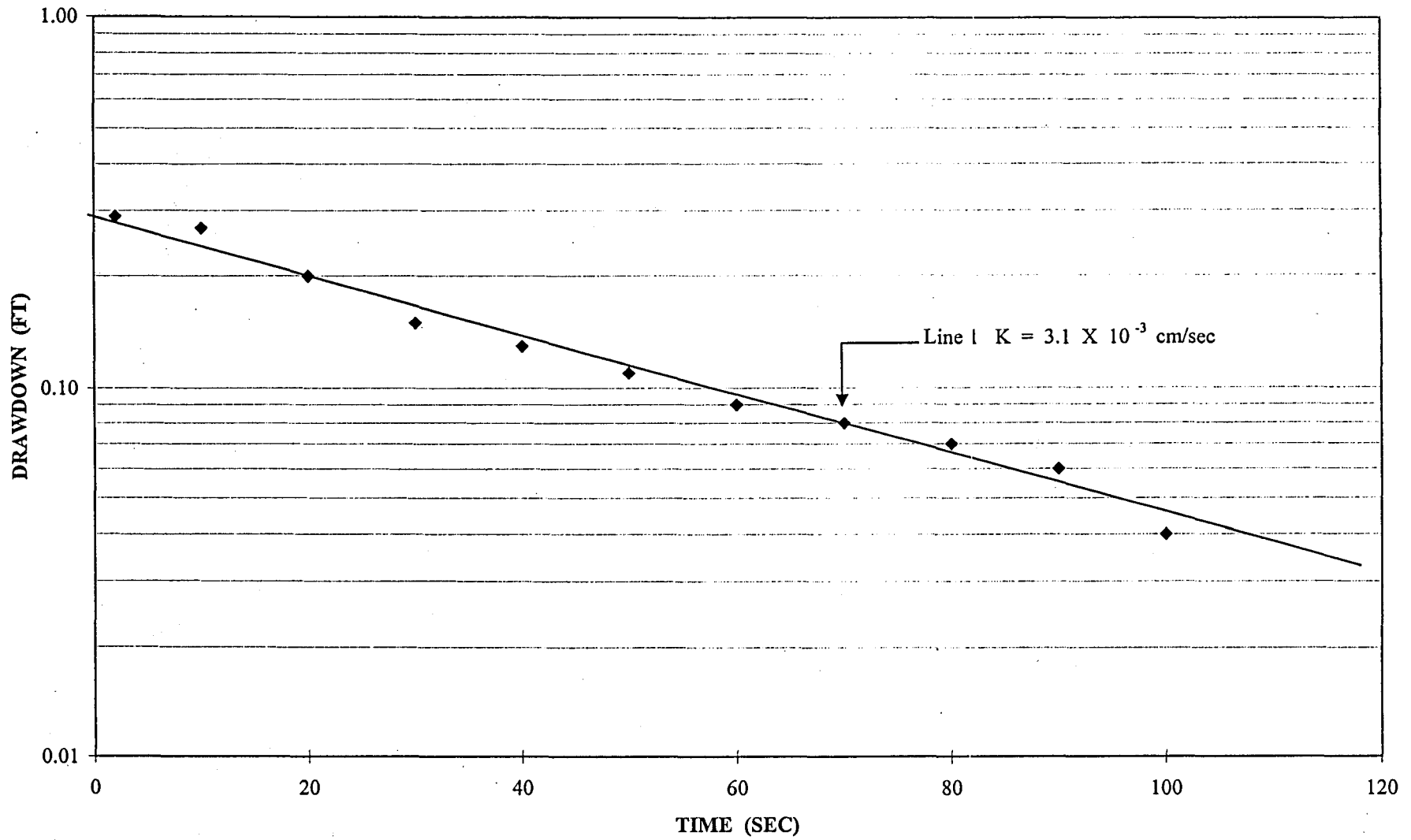
$$\ln(R_e/r_w) = \left\{ 1.1/\ln(L_w/r_w) + [A+B\ln[(H-L_w)/r_w]]/(L_e/r_w) \right\}^{-1}$$

$$\ln(R_e/r_w) = \{ \text{"Part 1"} + \text{"Part 2"} \}^{-1}$$

Calculated by: Bob Mottl 1/13/03

Checked by: *JEZ* 1/30/03

DRAWDOWN: AFTC MW-29



Ansul Fire Technology Center MW-29 (11-21-02)

static water table =			6.81
<i>time</i>	<i>water level</i>	<i>drawdown</i>	
(seconds)	(feet)	(feet)	
2	7.10	0.29	
10	7.08	0.27	
20	7.01	0.20	
30	6.96	0.15	
40	6.94	0.13	
50	6.92	0.11	
60	6.90	0.09	
70	6.89	0.08	
80	6.88	0.07	
90	6.87	0.06	
100	6.85	0.04	



STS CONSULTANTS LTD.

CALCULATION SHEET

PROJECT ANSUL FIRE TECHNOLOGY CENTER JOB NO 27380W PAGE 1 OF 2
SUBJECT HORIZONTAL GROUNDWATER GRADIENT CALCULATION DIVISION _____
ORIGINATOR R. MOTTZ DATE 1/13/03 CHECKED BY JEF DATE 1/30/03

$$\text{HORIZONTAL HYDRAULIC GRADIENT} = \frac{\Delta h}{\Delta L}$$

WHERE

$$\Delta h = \text{GROUNDWATER ELEV. DIFFERENCE}$$

$$\Delta L = \text{DISTANCE BETWEEN WELLS}$$

GROUNDWATER TABLE ELEVATIONS (11/21/02)

$$\text{AFFC-35} = 606.12$$

$$\text{AFTK-32J} = 605.52$$

$$\Delta h = 606.12 - 605.52 = 0.60 \text{ ft}$$

$$\Delta L = 600 \text{ ft}$$

$$\frac{\Delta h}{\Delta L} = \frac{0.6 \text{ ft}}{600 \text{ ft}} = 1 \times 10^{-3} \text{ ft/ft}$$



STS CONSULTANTS LTD.

CALCULATION SHEET

PROJECT ANSUL FIRE TECHNOLOGY CENTER JOB NO. 27380W PAGE 2 OF 2
SUBJECT SEEPAGE VELOCITY CALCULATION DIVISION _____
ORIGINATOR R. MOTT DATE 1/13/03 CHECKED BY JET DATE 1/30/03

$$\text{SEEPAGE VELOCITY} = K \frac{dh}{dl} \left(\frac{1}{n} \right)$$

WHERE K = HYDRAULIC CONDUCTIVITY

$$\frac{dh}{dl} = \text{HYDRAULIC GRADIENT}$$

n = SOIL POROSITY

$$V = \frac{4 \times 10^{-3} \text{ cm}}{\text{sec}} * \frac{10^{-3} \text{ ft}^{(1)}}{\text{ft}} * \frac{1}{0.3} * \frac{86400 \text{ sec}}{\text{day}} * \frac{1 \text{ ft}}{30.48 \text{ cm}} * \frac{365 \text{ day}}{\text{yr}}$$

$$= 13 \text{ ft/yr}$$