



September 2, 1999

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Ms. Kristin Nell
Wisconsin Department of Natural Resources
1125 North Military Avenue
P.O. Box 10448
Green Bay, Wisconsin 54307-0448

Subject: Project Status Report, One Hour Martinizing, 1233 South Military Avenue, Green Bay, Wisconsin -- WDNR ERP Case No. 02-05-217270 -- STS Project No. 24871XF

Dear Ms. Nell:

On behalf of our client, P.F. Fink, Inc., STS Consultants, Ltd. (STS), is submitting this project status report to request the Department's opinion regarding implementation of an immediate response and to get a determination regarding hazardous waste classifications. The report presents documentation of the installation of soil borings and monitoring wells to collect soil and groundwater samples, presents field-screening and laboratory results of soil and groundwater samples, and presents recommendations for further action. This work was performed in substantial accordance with the *Work Plan for Site Assessment* dated April 28, 1999.

On June 4 and June 7, 1999, five soil borings were advanced in the vicinity of the dry cleaning facility to determine the vertical and horizontal extent of impacted soil and groundwater. Four soil borings were converted to groundwater monitoring wells (MW-1 through MW-4), and one soil boring was converted to a piezometer (PZ-1). The monitoring wells and piezometer were installed in accordance with Wisconsin Administrative Code Chapter NR 141. Monitoring well locations are indicated on the attached Figure 1. Following monitoring well installation, the wells were gauged and sampled on June 17, 1999. Soil and groundwater samples were submitted to a State-certified analytical laboratory for the analysis of volatile organic compounds (VOCs). A summary of soil and groundwater analyses is attached. Laboratory analytical reports are also attached.

Results:

Relative groundwater elevations were recorded during the June 17, 1999, sampling event. The June 1999 groundwater elevations were used to plot the approximate groundwater contours shown on Figure 2. Groundwater contours indicated on Figure 2 show groundwater mounding conditions

near Monitoring Wells MW-3 and MW-1 and Piezometer PZ-1. The mounding conditions could be caused by roof runoff to the grassy area in the immediate rear of the building, fill material near the building foundation wall, the influence of the utility trench to the immediate south of the grassy area, or a combination of these factors.

As indicated on the attached summary of Soil Analytical Results, chlorinated compounds were detected in the vadose zone near PZ-1. Also indicated on the attached Soil Analytical Results summary table are the soil analytical results from the Northern Environmental Phase II Environmental Site Assessment dated March 23, 1999. Northern Environmental's March 1999 soil sampling results show vadose zone chlorinated compound detects at three locations. Soil tetrachloroethene (Perc) concentrations are illustrated on Figure 2. In addition to PZ-1, Perc was also detected in the soil sample collected near the apparent water table elevation in MW-2 and MW-3.

As indicated on the attached summary of Groundwater Analytical Results, chlorinated compounds were detected in exceedance of Wisconsin Administrative Code Chapter NR 140 enforcement standards (ES) in Monitoring Wells MW-1 and MW-3 and Piezometer PZ-1. Groundwater Perc concentrations are indicated on Figure 1.

Recommendations for Further Action:

To further define the extent and degree of groundwater impacts at the site, STS is recommending the installation of two additional monitoring wells (MW-5 and MW-6) in the areas indicated on Figure 3. We are also recommending VOC sampling on all wells, including the proposed MW-5 and MW-6. Following the additional sampling round, remedial action recommendations will be provided in a subsurface investigation report. Given the high concentration of Perc in groundwater at MW-1 and in soil at B100B, we are considering implementation of an immediate response. An immediate response appears appropriate to reduce potential off-site migration of Perc via groundwater and utility trenches.

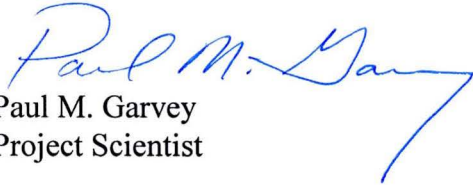
We are requesting that the Wisconsin Department of Natural Resources (WDNR) provide us with clarification as to whether or not emissions from a soil vapor extraction system for the remediation of chlorinated compounds would be considered a hazardous waste and would have to be treated accordingly. Currently, STS is evaluating soil vapor extraction as the recommended immediate response to be implemented as soon as a determination is made.

Wisconsin Department of Natural Resources
24871XF
September 2, 1999
Page 3

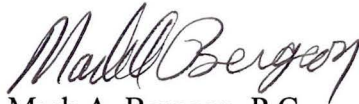
If you have any questions regarding this project status report, please contact us at 920-468-1978.

Sincerely,

STS CONSULTANTS, LTD.



Paul M. Garvey
Project Scientist



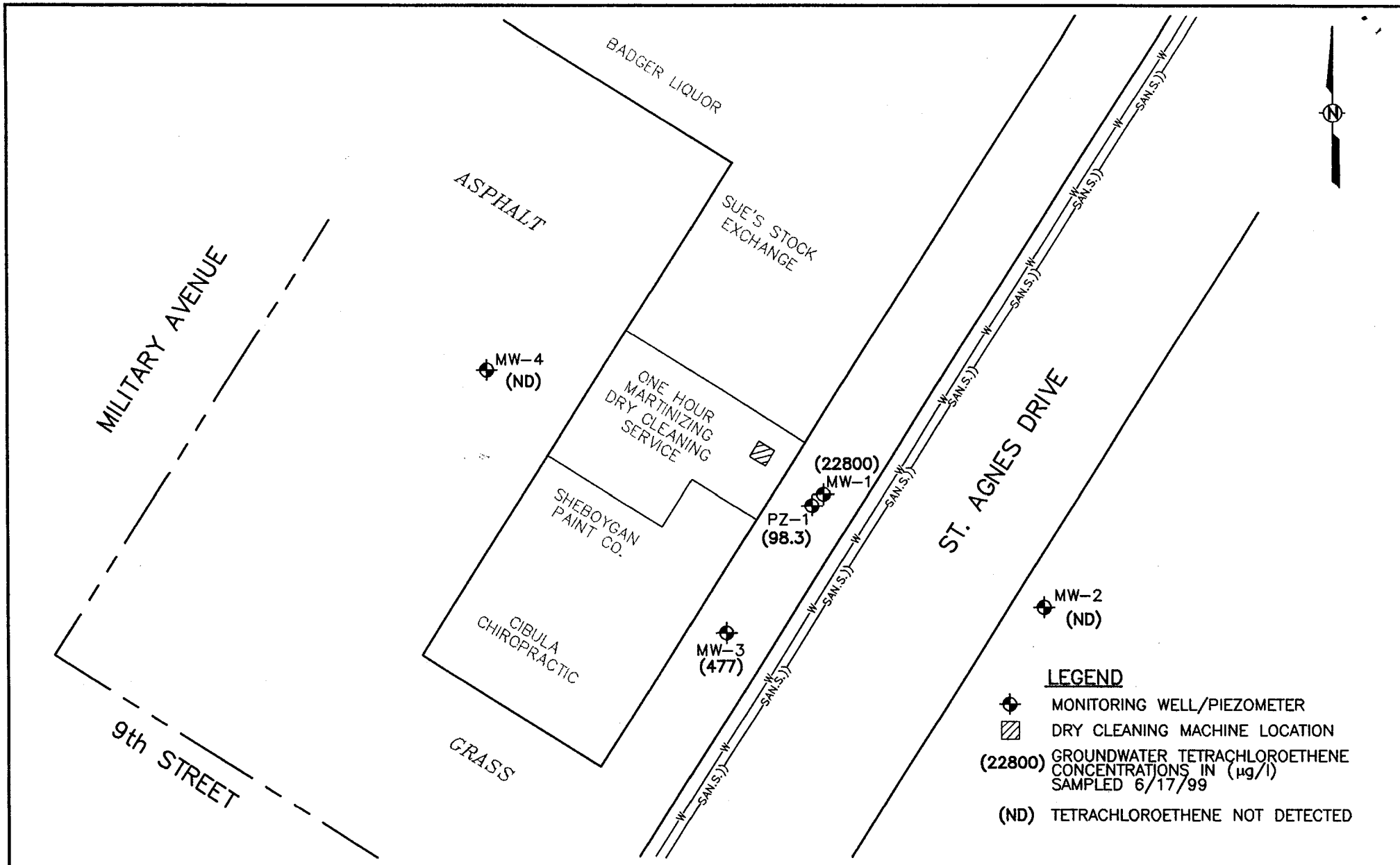
Mark A. Bergeon, P.G.
Principal Geologist

PMG/kjw.wd

Enclosures:

- Figure 1 - Groundwater Tetrachloroethene Concentrations
- Figure 2 - Soil Tetrachloroethene Concentration
- Figure 3 - Groundwater Contour Map (6-17-99)
- Figure 4 - Proposed Monitoring Well Locations
- Soil Analytical Results
- Groundwater Analytical Results
- WDNR Soil Boring Log Information Forms
- WDNR Monitoring Well Construction Forms
- WDNR Monitoring Well Development Forms
- Laboratory Reports

Copy: Mr. Joseph A. Hoida
P.F. Fink, Inc.
403 South Jefferson Street
Green Bay, Wisconsin 54301



- LEGEND**
- MONITORING WELL/PIEZOMETER
 - DRY CLEANING MACHINE LOCATION
 - (22800)** GROUNDWATER TETRACHLOROETHENE CONCENTRATIONS IN (µg/l) SAMPLED 6/17/99
 - (ND)** TETRACHLOROETHENE NOT DETECTED

**GROUNDWATER TETRACHLOROETHENE
CONCENTRATIONS
ONE HOUR MARTINIZING DRY CLEANING SERVICE
1233 SOUTH MILITARY AVENUE
GREEN BAY, WISCONSIN**



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Consulting Engineers

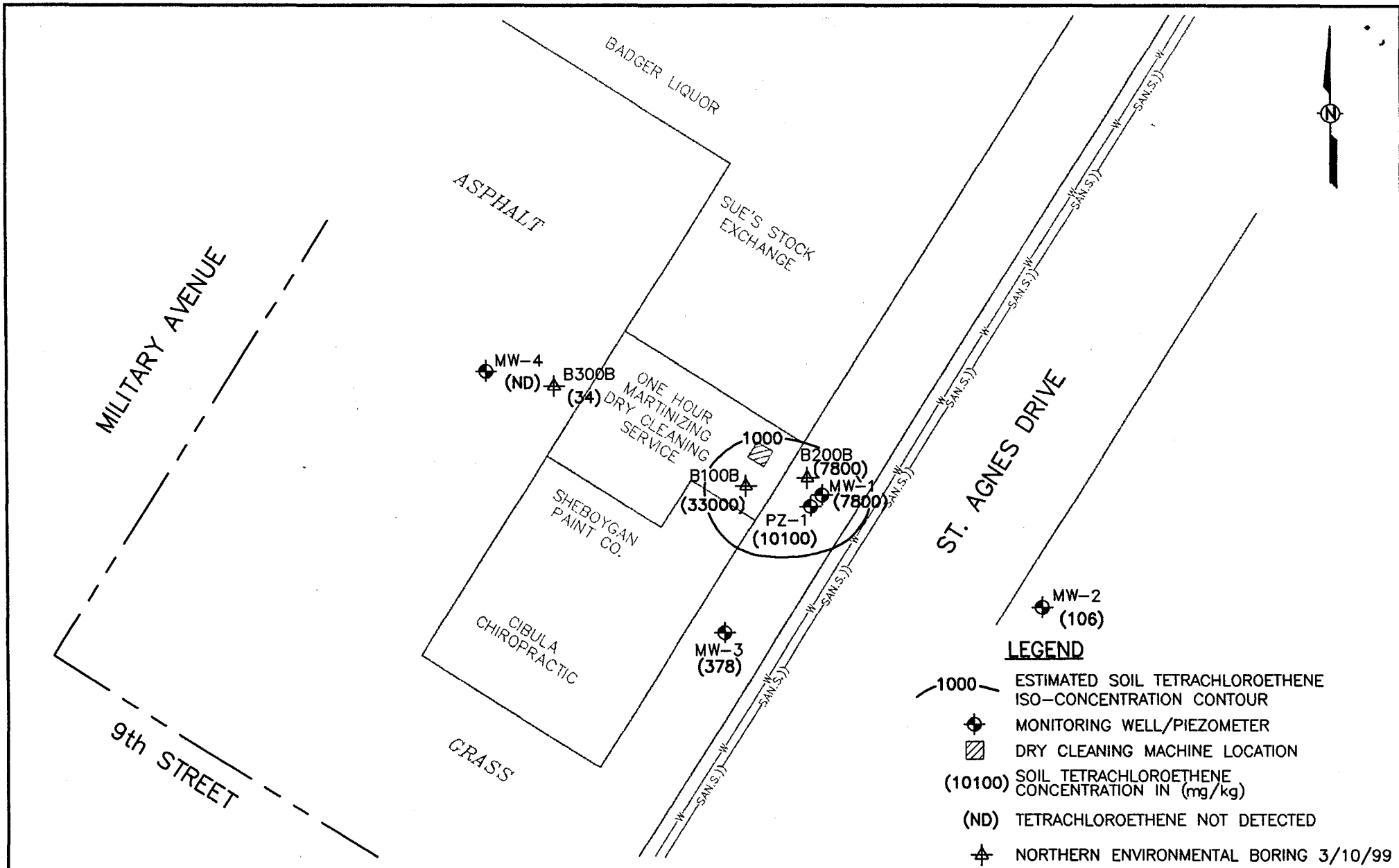
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SCALE
1" = 30'

FIGURE NO.
1

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CHECKED BY	JLC	DATE	6-29-99
APPROVED BY		DATE	
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- LEGEND**
- 1000— ESTIMATED SOIL TETRACHLOROETHENE ISO-CONCENTRATION CONTOUR
 - ◆ MONITORING WELL/PIEZOMETER
 - ▨ DRY CLEANING MACHINE LOCATION
 - (10100) SOIL TETRACHLOROETHENE CONCENTRATION IN (mg/kg)
 - (ND) TETRACHLOROETHENE NOT DETECTED
 - ▲ NORTHERN ENVIRONMENTAL BORING 3/10/99

**SOIL TETRACHLOROETHENE CONCENTRATION
ONE HOUR MARTINIZING DRY CLEANING SERVICE
1233 SOUTH MILITARY AVENUE
GREEN BAY, WISCONSIN**



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Consulting Engineers

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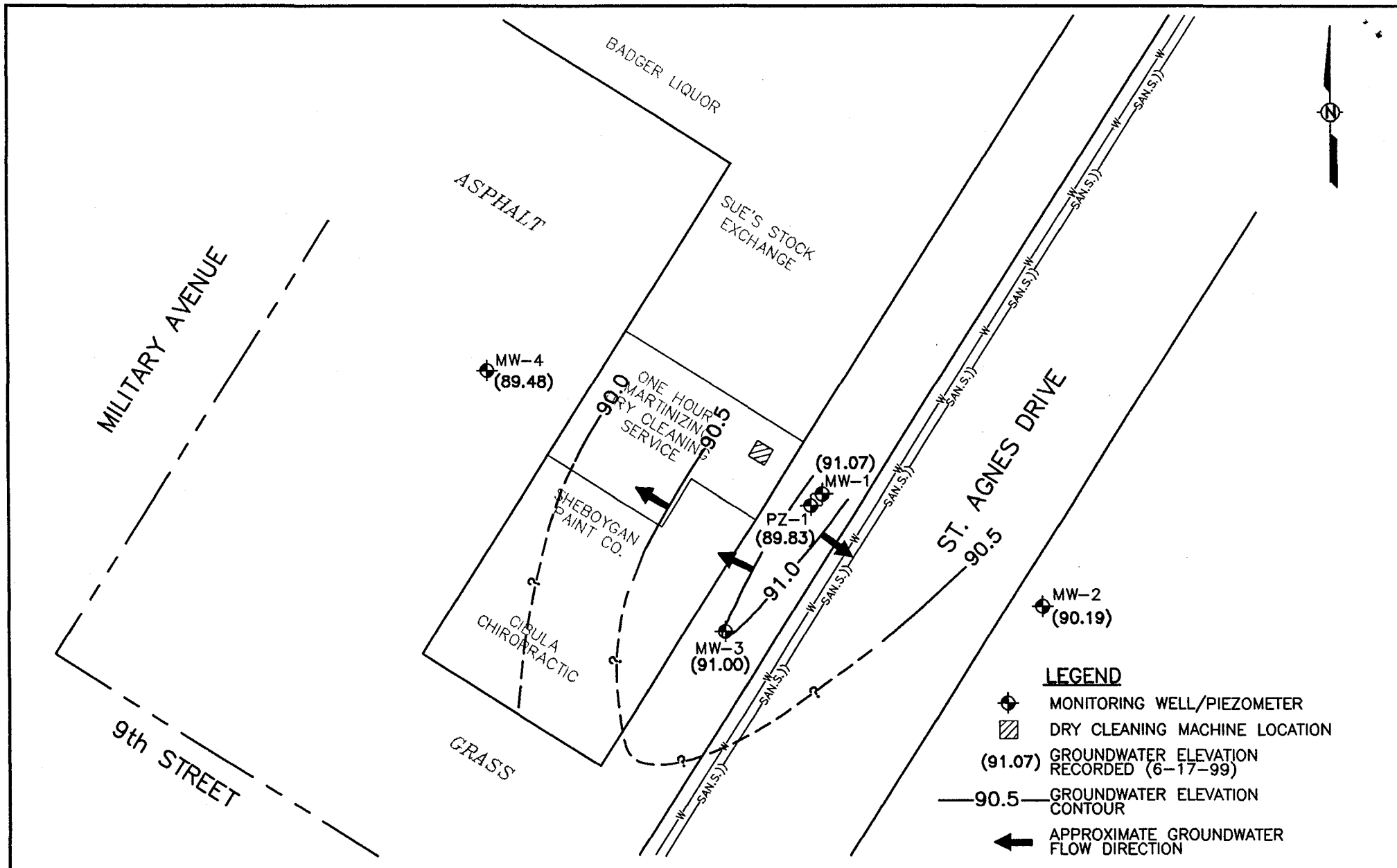
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SCALE
1" = 30'

FIGURE NO.
2

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APPROVED BY	DATE

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LEGEND

- MONITORING WELL/PIEZOMETER
- DRY CLEANING MACHINE LOCATION
- (91.07)** GROUNDWATER ELEVATION RECORDED (6-17-99)
- 90.5—** GROUNDWATER ELEVATION CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION

**GROUNDWATER CONTOUR MAP (6-17-99)
 ONE HOUR MARTINIZING DRY CLEANING SERVICE
 1233 SOUTH MILITARY AVENUE
 GREEN BAY, WISCONSIN**



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 Consulting Engineers

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24871XF

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SCALE

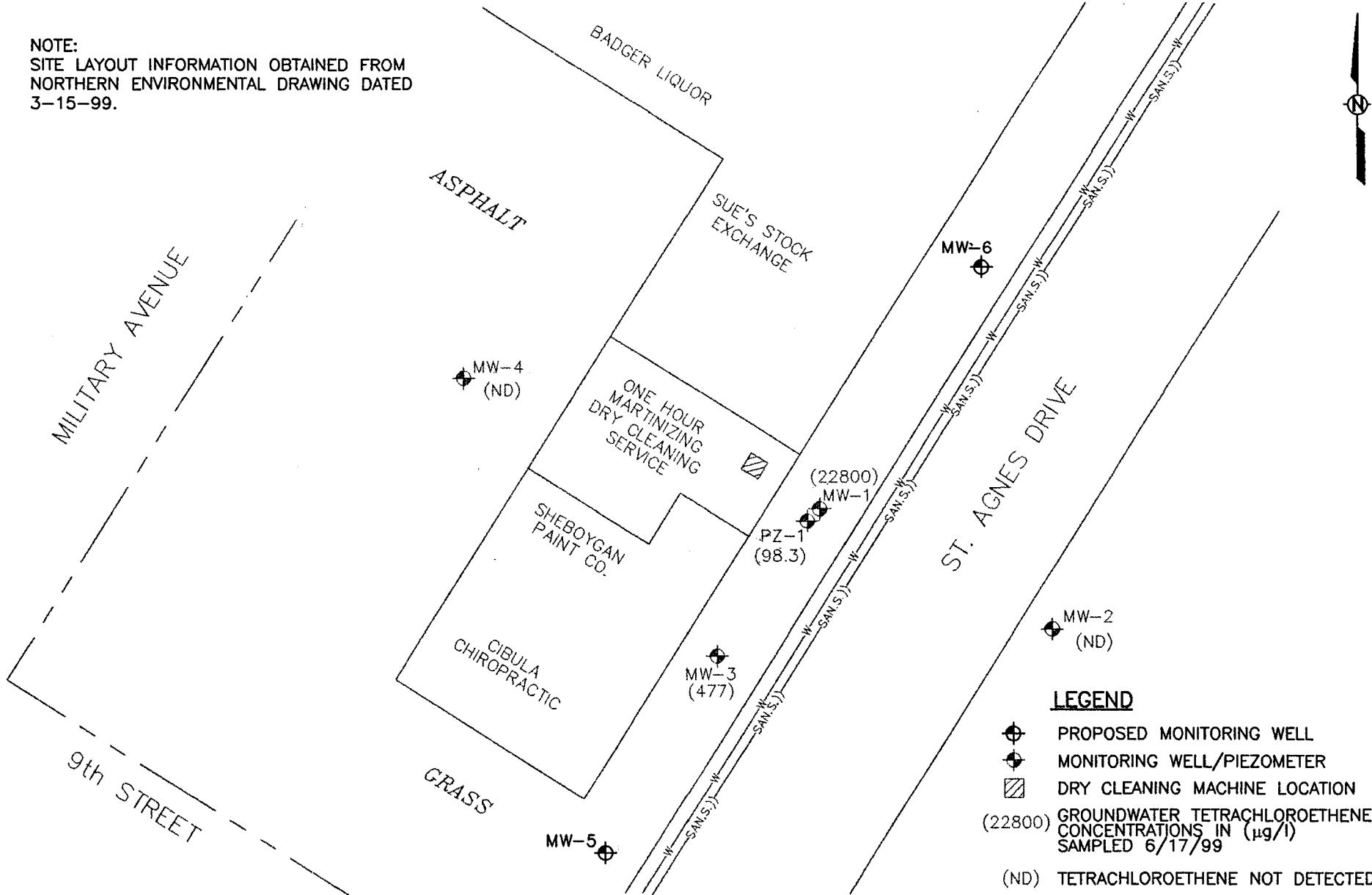
1" = 30'

FIGURE NO.

3

DRAWN BY	PDP	DATE	6-21-99
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APPROVED BY		DATE	
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NOTE:
SITE LAYOUT INFORMATION OBTAINED FROM
NORTHERN ENVIRONMENTAL DRAWING DATED
3-15-99.



LEGEND

- PROPOSED MONITORING WELL
- MONITORING WELL/PIEZOMETER
- DRY CLEANING MACHINE LOCATION
- (22800) GROUNDWATER TETRACHLOROETHENE CONCENTRATIONS IN (µg/l) SAMPLED 6/17/99
- (ND) TETRACHLOROETHENE NOT DETECTED

**PROPOSED MONITORING WELL LOCATIONS
ONE HOUR MARTINIZING DRY CLEANING SERVICE
1233 SOUTH MILITARY AVENUE
GREEN BAY, WISCONSIN**



STS Consultants Ltd.
Consulting Engineers

STS PROJECT NO.
24871XF

STS PROJECT FILE
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SCALE
1" = 30'

FIGURE NO.
4

DRAWN BY	PDP	DATE	6-21-99
CHECKED BY	JLC	DATE	8-6-99
APPROVED BY		DATE	

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**Soil Analytical Results
One Hour Martinizing
1233 S. Military Avenue
Green Bay, Wisconsin**

			Analyte Units	Benzene ug/kg	cis 1,2-Dichloroethene ug/kg	Ethylbenzene ug/kg	Methylene Chloride ug/kg	Naphthalene ug/kg	Tetrachloroethene ug/kg	Trichloroethene ug/kg	Toluene ug/kg	Trimethylbenzenes ug/kg	Xylenes ug/kg
PZ-1	6/3/99	S-2	Depth-ft 2.0 - 4.0	<116	<115	<120	<157	<50.7	10100	511	<68.0	<501	<352
		S-3	4.0 - 6.0	<11.4	21.2 (p)	<11.8	<15.4	<4.97	2760	134	<6.67	<49.1	<34.6
MW-2	6/3/99	S-3	4.0 - 6.0	<12.6	<12.5	<13.0	<17.1	<5.51	106	<14.2	<7.39	<54.5	<38.3
MW-3	6/3/99	S-2	2.0 - 4.0	<11.7	<11.6	<12.1	<15.8	<5.12	<21.0	<13.2	<6.86	<50.6	<35.6
		S-4	6.0 - 8.0	<12.9	<12.8	<13.3	<17.5	<5.64	378	<14.6	<7.56	<55.7	<39.1
MW-4	6/3/99	S-2	3.0 - 5.0	<11.7	<11.6	<12.1	<15.8	<5.11	<21.0	<13.2	<6.86	<50.5	<35.5
WAC NR 720 Generic RCL ¹				5.5		2,900					1,500		4,100

Notes:

ug/kg = micrograms per kilogram

(p) = Reported result is less than the practical quantitation limit

¹Wisconsin Administrative Code Chapter NR 720 Generic Residual Contaminant Level

Soil Analytical Results from Northern Environmental's March 23, 1999, Phase 2 ESA.

			Analyte Units	Benzene ug/kg	cis 1,2-Dichloroethene ug/kg	Ethylbenzene ug/kg	Methylene Chloride ug/kg	Naphthalene ug/kg	Tetrachloroethene ug/kg	Trichloroethene ug/kg	Toluene ug/kg	Trimethylbenzenes ug/kg	Xylenes ug/kg
B100B	S102B	3/10/99	Depth-ft 1.0 - 3.0	<25	38	<25	<25	<25	33000	66	<25	<50	<75
			B200B	S201B	3/10/99	1.0 - 3.0	<25	<25	<25	<25	7800	88	<25
B300B	S301B	3/10/99	1.0 - 3.0	<25	<25	<25	<25	<25	34	<25	<25	<50	<75
WAC NR 720 Generic RCL ¹				5.5		2,900					1,500		4,100

Groundwater Analytical Results
One Hour Martinizing
1223 S. Military Avenue
Green Bay, Wisconsin

Analyte Units	Benzene ug/L	cis 1,2-Dichloroethene ug/L	Ethylbenzene ug/L	Methylene Chloride ug/L	Naphthalene ug/L	Tetrachloroethene ug/L	Trichloroethene ug/L	Toluene ug/L	1,1,1-Trichloroethane ug/L	Trimethylbenzenes ug/L	Xylenes ug/L
MW-1 6/17/99	<94	<93	<97	<127	<41	22800	233 (p)	<55	257 (p)	<405	<285
MW-2 6/17/99	<0.19	<0.19	<0.19	<0.25	<0.08	<0.34	<0.21	<0.11	<0.30	<0.81	<0.57
MW-3 6/17/99	<9.4	<9.3	<9.7	<12.7	<4.1	477	<10.6	<5.5	<15.1	<40.5	<28.5
MW-4 6/17/99	<0.19	<0.19	<0.19	<0.25	<0.08	<0.34	<0.21	0.47	<0.30	<0.81	<0.57
PZ-1 6/17/99	<0.94	<0.93	<0.97	<1.27	<0.41	98.3	4	<0.55	5.04	<4.05	<2.85
NR 140 Groundwater Standards											
ES	5	70	700	5	40	5	5	343	200	480	620
PAL	0.5	7	140	0.5	8	0.5	0.5	68.6	40	96	124

Notes:

ug/L = micrograms per liter

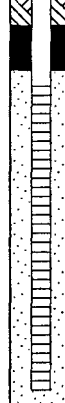
(p) = Reported result is less than the practical quantitation limit

120 Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES) Exceedance


140 Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL) Exceedance

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

Facility/Project Name One Hour Martinizing Dry Cleaning Service		License/Permit/Monitoring Number		Boring Number MW-1	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear - P. Dickinson - STS Project No. 24871XF		Date Drilling Started 6/4/1999		Date Drilling Completed 6/4/1999	
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-1	Final Static Water Level Feet MSL	Surface Elevation 97.0 Feet MSL	Borehole Diameter 8.0 Inches
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane P.C. 2-9 West Side-Fox River 1/4 of 1/4 of Section			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 Brown	County Code 5	Civil Town/City/ or Village Green Bay		

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		
			2.5 5.0 7.5 10.0 12.5	Blind Drill (See Boring Log PZ-1)											
				End of Boring Boring advanced from 0.0 feet to 13.5 feet by hollow-stem auger Installed 2-inch diameter schedule 40 PVC monitoring well at 13.0 feet											

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

Signature  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. 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 One Hour Martinizing Dry Cleaning Service		License/Permit/Monitoring Number		Boring Number MW-2	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear - P. Dickinson - STS Project No. 24871XF		Date Drilling Started 6/4/1999		Date Drilling Completed 6/4/1999	
WI Unique Well No.		DNR Well ID No.		Common Well Name MW-2	
Final Static Water Level Feet MSL		Surface Elevation 96.8 Feet MSL		Borehole Diameter 8.0 Inches	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>)					
State Plane P.C. 2-9 West Side-Fox River 1/4 of Section 1, N, R			Lat. _____ Long. _____		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
Facility ID		County Brown		County Code 5	
Civil Town/City/ or Village Green Bay					

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		
S-1 SS	24 12	3		Fill: Grass - dark brown organic silt - topsoil Fill: Brown and dark brown silty sand and clay				<1/<2							
S-2 SS	24 24	2	2.5					<1/<1							
S-3 SS	24 18	5	5.0					<1/1							
S-4 SS	24 18	6	7.5	Brown silty clay - trace gray mottling at 6.5 feet to 8.0 feet - moist to wet - firm to stiff - lacustrine	CL			<1/<1							
S-5 SS	24 18	4	10.0					<1/<1							
HSA S-6 SS	12 24 24	4	12.5					<1/<1							
HSA	6			End of Boring Boring advanced from 0.0 feet to 13.5 feet by hollow-stem auger Installed 2-inch diameter schedule 40 PVC monitoring well at 13.0 feet											

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

Signature <i>Paul A. May</i>	Firm STS Consultants, Ltd. 1035 Kepler Dr. Green Bay, WI 54311	Tel: 920-468-1978 Fax: 920-468-3312
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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name One Hour Martinizing Dry Cleaning Service		License/Permit/Monitoring Number		Boring Number MW-3	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear - J. Flaminio - STS Project No. 24871XF		Date Drilling Started 6/7/1999		Date Drilling Completed 6/7/1999	
Drilling Method Hollow-stem Auger		WI Unique Well No.		DNR Well ID No.	
Common Well Name MW-3		Final Static Water Level Feet MSL		Surface Elevation 97.3 Feet MSL	
Borehole Diameter 8.0 Inches		Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane P.C. 2-9 West Side-Fox River S/C/N 1/4 of 1/4 of Section T N, R		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Brown		County Code 5	
				Civil Town/City/ or Village Green Bay	

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		
S-1 SS	24 18	9		Fill: Grass - dark brown organic silt - topsoil				7/1							
S-2 SS	24 18	4	2.5	Fill: Dark brown silty clay - trace brown silty sand				2/6							
S-3 SS	24 12	4	5.0	Light brown to brown silty clay - trace gray mottling - moist to wet at 5.0 feet - stiff				3/1							
S-4 SS	24 24	7	7.5					1/1							
S-5 SS	24 24	4	10.0		CL			3/5							
S-6 SS	24 24	6	10.0					3/5							
HSA	24		12.5												
				End of Boring Boring advanced from 0.0 feet to 13.5 feet by hollow-stem auger Installed 2-inch diameter schedule 40 PVC monitoring well at 13.0 feet											

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

Signature *Paul M. Lang* Firm **STS Consultants, Ltd.** Tel: 920-468-1978
1035 Kepler Dr. Green Bay, WI 54311 Fax: 920-468-3312

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

Facility/Project Name One Hour Martinizing Dry Cleaning Service		License/Permit/Monitoring Number		Boring Number MW-4	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear - J. Flaminio - STS Project No. 24871XF		Date Drilling Started 6/7/1999		Date Drilling Completed 6/7/1999	
Drilling Method Hollow-stem Auger		WI Unique Well No.		DNR Well ID No.	
Common Well Name MW-4		Final Static Water Level Feet MSL		Surface Elevation 96.6 Feet MSL	
Borehole Diameter 8.0 Inches		Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane P.C. 2-9 West Side-Fox River 1/4 of 1/4 of Section T N, R		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Brown		County Code 5	
				Civil Town/City/ or Village Green Bay	

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			
RB	12			Fill: 3 inches of asphalt												
S-1	24	6	2.5	Fill: Medium gravel - dark brown organic silty - topsoil - brown silty clay				1/1								
S-2	24	6		Light brown to brown silty sandy clay - moist to wet at 5.0 feet				1/1								
SS	18															
S-3	24	5	5.0	Blind Drill												
SS																
	84		7.5													
			10.0													
			12.5													
				End of Boring Boring advanced from 0.0 feet to 13.5 feet by hollow-stem auger Installed 2-inch diameter schedule 40 PVC monitoring well at 13.0 feet												

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

Signature: *[Handwritten Signature]* Firm: **STS Consultants, Ltd.** Tel: 920-468-1978
1035 Kepler Dr. Green Bay, WI 54311 Fax: 920-468-3312

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

Facility/Project Name One Hour Martinizing Dry Cleaning Service		License/Permit/Monitoring Number		Boring Number PZ-1	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear - P. Dickinson - STS Project No. 24871XF		Date Drilling Started 6/4/1999		Date Drilling Completed 6/4/1999	
WI Unique Well No.		DNR Well ID No. PZ-1		Final Static Water Level Feet MSL	
Common Well Name		Surface Elevation 96.9 Feet MSL		Borehole Diameter 8.0 Inches	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>)					
State Plane P.C. 2-9 West Side-Fox River 1/4 of 1/4 of Section T N, R			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 Brown		County Code 5	
				Civil Town/City/ or Village Green Bay	

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	
S-1 SS	24 18	3		Fill: Grass - dark brown organic silt - topsoil Fill: Dark brown silty clay and brown fine silty sand				<2/3						
S-2 SS	24 24	5	2.5					75/150						
S-3 SS	24 18	4	5.0	Light brown to brown silty sandy clay - moist to wet - firm				10/25						
S-4 SS	24 24	3	7.5	Brown silty clay - trace gray mottling - moist to wet - stiff - lacustrine				17/25						
S-5 SS	24 24	3	10.0		CL			50/95						
HSA	36		12.5											
S-6 SS	24 18	2	15.0	Brown silty sandy clay - wet - loose				40/95						
HSA	36		17.5		CL									
S-7 SS	24 24	5	20.0					5/13						
HSA	12		22.5											
S-8 SS	24 18	10		Brown to dark brown silty clay - very stiff - lacustrine	CL			5/15						
HSA	6			End of Boring Boring advanced from 0.0 feet to 24.0 feet by hollow-stem auger Installed 2-inch diameter schedule 40 PVC piezometer at 22.5 feet										

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

Signature <i>Paul M. Long</i>	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. 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.

Facility/Project Name One Hour Martinizing Dry Cleaning Service	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-1
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. _____ DNR Well Number _____
Facility ID	Section Location of Waste/Source P.C. 2-9 West Side-Fox River <input type="checkbox"/> E 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ W <input type="checkbox"/> W	Date Well Installed 06/04/1999
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) P. Dickinson
Distance Well Is From Waste/Source Boundary _____ ft.		Boart Longyear

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 96.63 ft. MSL
- C. Land surface elevation 97.0 ft. MSL
- D. Surface seal, bottom 96.0 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

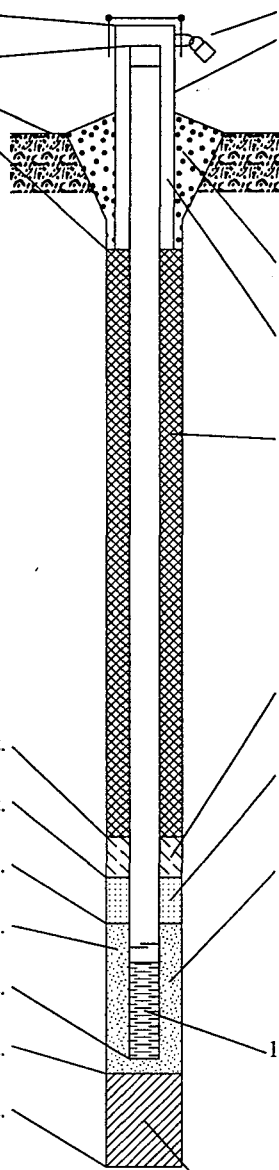
13. Sieve analysis attached? Yes No

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: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other
- 4. Material between well casing and protective pipe: Bentonite 3 0
20/40 Badger 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. _____
 b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name and mesh size: _____
 a. 20/40 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 Boart Longyear
 - 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 96.0 ft. MSL or 1.0 ft.
- F. Fine sand, top 94.5 ft. MSL or 2.5 ft.
- G. Filter pack, top 94.5 ft. MSL or 2.5 ft.
- H. Screen joint, top 94.0 ft. MSL or 3.0 ft.
- I. Well bottom 84.0 ft. MSL or 13.0 ft.
- J. Filter pack, bottom 83.5 ft. MSL or 13.5 ft.
- K. Borehole, bottom 83.5 ft. MSL or 13.5 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.37 in.
- N. I.D. well casing 2.06 in.

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

Signature: [Signature] Firm: **STS Consultants, Ltd.** Tel: 920-468-1978
 1035 Kepler Dr. Green Bay, WI 54311 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.

Facility/Project Name One Hour Martinizing Dry Cleaning Service	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-2
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/DNR Well Number
Facility ID	Section Location of Waste/Source P.C. 2-9 West Side-Fox River <input type="checkbox"/> E 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ W	Date Well Installed 06/04/1999
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) P. Dickinson
Distance Well Is From Waste/Source Boundary _____ ft.		Boart Longyear

A. Protective pipe, top elevation _____ ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation 96.60 ft. MSL		2. Protective cover pipe: a. Inside diameter: 8.0 in. b. Length: 1.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 96.8 ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom 95.8 ft. MSL or 1.0 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 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"/>		
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 _____ 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		
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		
17. Source of water (attach analysis): _____		
E. Bentonite seal, top 95.8 ft. MSL or 1.0 ft.		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 20/40 Badger Other <input checked="" type="checkbox"/>
F. Fine sand, top 94.3 ft. MSL or 2.5 ft.		5. Annular space seal: a. Granular 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. _____ 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 94.3 ft. MSL or 2.5 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 93.8 ft. MSL or 3.0 ft.		7. Fine sand material: Manufacturer, product name and mesh size: a. _____ b. Volume added _____ ft ³
I. Well bottom 83.8 ft. MSL or 13.0 ft.		8. Filter pack material: Manufacturer, product name and mesh size: a. 20/40 Badger b. Volume added _____ ft ³
J. Filter pack, bottom 83.3 ft. MSL or 13.5 ft.		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"/>
K. Borehole, bottom 83.3 ft. MSL or 13.5 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"/>
L. Borehole, diameter 8.0 in.		b. Manufacturer Boart Longyear c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
M. O.D. well casing 2.37 in.		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 _____ Other <input type="checkbox"/>
N. I.D. well casing 2.06 in.		

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

Signature *P. P. M. Long* Firm **STS Consultants, Ltd.** Tel: 920-468-1978
1035 Kepler Dr. Green Bay, WI 54311 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 Remediation/Redevelopment Waste Management Other

Facility/Project Name One Hour Martinizing Dry Cleaning Service	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-3
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. _____ DNR Well Number _____
Facility ID	Section Location of Waste/Source P.C. 2-9 West Side-Fox River <input type="checkbox"/> E 1/4 of 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> W	Date Well Installed 06/07/1999
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) J. Flaminio
Distance Well Is From Waste/Source Boundary _____ ft.		Boart Longyear

- A. Protective pipe, top elevation 97.30 ft. MSL
- B. Well casing, top elevation 96.96 ft. MSL
- C. Land surface elevation 97.3 ft. MSL
- D. Surface seal, bottom 96.3 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

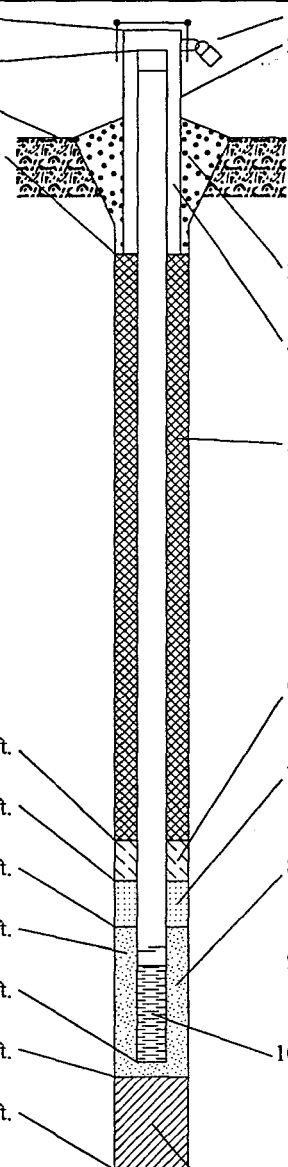
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 _____ Other

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: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other
- 4. Material between well casing and protective pipe: Bentonite 3 0
20/40 Badger 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. _____
 b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name and mesh size
 a. 20/40 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 Boart Longyear
 - c. Slot size: 0.006 in.
 - d. Slotted length: 10.0 ft.
- 11. Backfill material (below filter pack): None 1 4
Other

- E. Bentonite seal, top 96.3 ft. MSL or 1.0 ft.
- F. Fine sand, top 94.8 ft. MSL or 2.5 ft.
- G. Filter pack, top 94.8 ft. MSL or 2.5 ft.
- H. Screen joint, top 94.3 ft. MSL or 3.0 ft.
- I. Well bottom 84.3 ft. MSL or 13.0 ft.
- J. Filter pack, bottom 83.8 ft. MSL or 13.5 ft.
- K. Borehole, bottom 83.8 ft. MSL or 13.5 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.37 in.
- N. I.D. well casing 2.06 in.

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

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

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Facility/Project Name One Hour Martinizing Dry Cleaning Service	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-4
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or	Wis. Unique Well No/DNR Well Number
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 06/07/1999
Type of Well Well Code 11/mw	Section Location of Waste/Source P.C. 2-9 West Side-Fox River <input type="checkbox"/> E 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) J. Flaminio
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	Boart Longyear

A. Protective pipe, top elevation _____ 96.70 ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ 96.32 ft. MSL		2. Protective cover pipe: a. Inside diameter: _____ 8.0 in. b. Length: _____ 1.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ 96.6 ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ 95.6 ft. MSL or _____ 1.0 ft.		3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" 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 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 _____ 95.6 ft. MSL or _____ 1.0 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 20/40 Badger Other <input checked="" type="checkbox"/>	5. Annular space seal: a. Granular 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. _____ 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
F. Fine sand, top _____ 94.1 ft. MSL or _____ 2.5 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"/>	7. Fine sand material: Manufacturer, product name and mesh size a. _____ b. Volume added _____ ft ³
G. Filter pack, top _____ 94.1 ft. MSL or _____ 2.5 ft.	8. Filter pack material: Manufacturer, product name and mesh size a. _____ 20/40 Badger b. Volume added _____ ft ³	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"/>
H. Screen joint, top _____ 93.6 ft. MSL or _____ 3.0 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"/>	b. Manufacturer _____ Boart Longyear c. Slot size: _____ 0.006 in. d. Slotted length: _____ 10.0 ft.
I. Well bottom _____ 83.6 ft. MSL or _____ 13.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>	
J. Filter pack, bottom _____ 83.1 ft. MSL or _____ 13.5 ft.		
K. Borehole, bottom _____ 83.1 ft. MSL or _____ 13.5 ft.		
L. Borehole, diameter _____ 8.0 in.		
M. O.D. well casing _____ 2.37 in.		
N. I.D. well casing _____ 2.06 in.		

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

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

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Facility/Project Name One Hour Martinizing Dry Cleaning Service	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 PZ-1
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. _____ DNR Well Number _____
Facility ID	Section Location of Waste/Source P.C. 2-9 West Side-Fox River <input type="checkbox"/> E _____ 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ W <input type="checkbox"/> W	Date Well Installed 06/04/1999
Type of Well Well Code 12/pz	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) P. Dickinson
Distance Well Is From Waste/Source Boundary _____ ft.		Boart Longyear

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 96.55 ft. MSL
- C. Land surface elevation 96.9 ft. MSL
- D. Surface seal, bottom 95.9 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

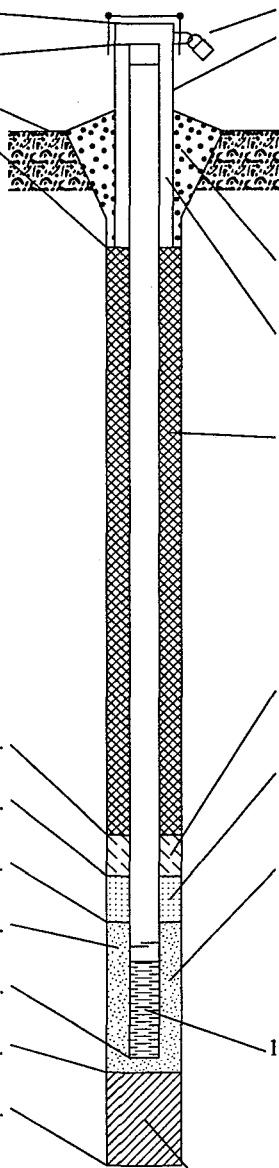
13. Sieve analysis attached? Yes No

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: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal:
 - Bentonite 3 0
 - Concrete 0 1
 - Other
- 4. Material between well casing and protective pipe:
 - Bentonite 3 0
 - 20/40 Badger 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. _____
 b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name and mesh size:
 a. 20/40 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 Boart Longyear
 c. Slot size: 0.010 in.
 d. Slotted length: 2.0 ft.
- 11. Backfill material (below filter pack): None 1 4
 _____ Other

- E. Bentonite seal, top 95.9 ft. MSL or 1.0 ft.
- F. Fine sand, top 77.4 ft. MSL or 19.5 ft.
- G. Filter pack, top 77.4 ft. MSL or 19.5 ft.
- H. Screen joint, top 76.4 ft. MSL or 20.5 ft.
- I. Well bottom 74.4 ft. MSL or 22.5 ft.
- J. Filter pack, bottom 72.9 ft. MSL or 24.0 ft.
- K. Borehole, bottom 72.9 ft. MSL or 24.0 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.37 in.
- N. I.D. well casing 2.06 in.

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

Signature *[Handwritten Signature]*

Firm **STS Consultants, Ltd.**
1035 Kepler Dr. Green Bay, WI 54311

Tel: 920-468-1978
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 One Hour Martinizing Dry Cleaning Service	County Brown	Well Name MW-1	
Facility License, Permit or Monitoring Number	County Code 5	Wis. Unique Well Number	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 **20 min.**

4. Depth of well (from top of well casing) **12.8 ft.**

5. Inside diameter of well **2.06 in.**

6. Volume of water in filter pack and well casing **2.6 gal.**

7. Volume of water removed from well **3.0 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:
Purged and surged with 3' HDPE bailer - purged dry multiple times

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 9.92 ft.	12.80 ft.
Date	b. 06/04/1999	06/04/1999
Time	c. 03:40 pm	04:00 pm
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe) <u>Low turb - purges dry after 1 gal - light brown</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>Purges dry - low turb - light brown</u>

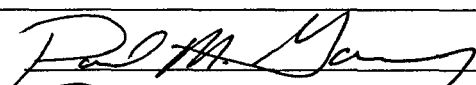
Fill in if drilling fluids were used and well is at solid waste facility:

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

15. COD **mg/l** **mg/l**

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

Jerry Puetz
STS Consultants Ltd.

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: _____	Signature: 
Firm: One Hour Martinizing Dry Cleaning Service	Print Name: PAUL M. GARVEY
Street: 1233 Military Avenue	Firm: STS Consultants, Ltd.
City/State/Zip: Green Bay, Wisconsin	

NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name One Hour Martinizing Dry Cleaning Service	County Brown	Well Name MW-2
Facility License, Permit or Monitoring Number	County Code 5	Wis. Unique Well Number 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 _____ 5 0

3. Time spent developing well **20 min.**

4. Depth of well (from top of well casing) **13.0 ft.**

5. Inside diameter of well **2.06 in.**

6. Volume of water in filter pack and well casing **4.3 gal.**

7. Volume of water removed from well **4.0 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)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 8.26 ft.	13.00 ft.
Date	b. 06/04/1999	06/04/1999
Time	c. 03:15 pm	03:35 pm
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5 (Describe) <u>Low turb - light brown</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>Low turb - light brown</u>

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

Jerry Puetz
STS Consultants Ltd.

17. Additional comments on development:
Developed using 3' HDPE bailer - purged dry multiple times

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: _____	Signature: <u><i>Paul M. Garvey</i></u>
Firm: <u>One Hour Martinizing Dry Cleaning Service</u>	Print Name: <u>PAUL M. GARVEY</u>
Street: <u>1233 Military Avenue</u>	Firm: <u>STS Consultants, Ltd.</u>
City/State/Zip: <u>Green Bay, Wisconsin</u>	

NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name One Hour Martinizing Dry Cleaning Service	County Brown	Well Name MW-3	
Facility License, Permit or Monitoring Number	County Code 5	Wis. Unique Well Number	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 min.
4. Depth of well (from top of well casing) 12.5 ft.
5. Inside diameter of well 2.06 in.
6. Volume of water in filter pack and well casing 6.2 gal.
7. Volume of water removed from well 4.0 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)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 5.58 ft.	Dry ft.
Date	b. 06/17/1999	06/17/1999
Time	c. 09:20 am	09:50 am
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 1 0	Clear <input checked="" type="checkbox"/> 2 0
	Turbid <input type="checkbox"/> 1 5	Turbid <input type="checkbox"/> 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
Jim Calaway
STS Consultants Ltd.

17. Additional comments on development:
Bailed monitoring well dry three times

Facility Address or Owner/Responsible Party Address

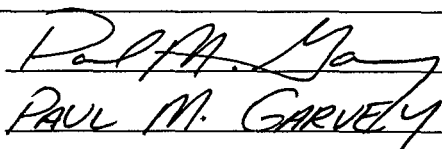
Name: _____

Firm: One Hour Martinizing Dry Cleaning Service

Street: 1233 Military Avenue

City/State/Zip: Green Bay, Wisconsin

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

Signature: 

Print Name: PAUL M. GARVEY

Firm: STS Consultants, Ltd.

NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name One Hour Martinizing Dry Cleaning Service	County Brown	Well Name MW-4	
Facility License, Permit or Monitoring Number	County Code 5	Wis. Unique Well Number	DNR Well Number

- Can this well be purged dry? Yes No
- 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 _____ _____
- Time spent developing well **40 min.**
- Depth of well (from top of well casing) **12.5 ft.**
- Inside diameter of well **2.06 in.**
- Volume of water in filter pack and well casing **8.5 gal.**
- Volume of water removed from well **6.0 gal.**
- Volume of water added (if any) **gal.**
- Source of water added _____
- Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 3.06 ft.	Dry ft.
Date	b. 06/17/1999	06/17/1999
Time	c. 09:05 am	09:45 am
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5 (Describe)	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (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
Jim Calaway
STS Consultants Ltd.

17. Additional comments on development:
Bailed monitoring well dry three times

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: _____	Signature: <u><i>Paul M. Garvey</i></u>
Firm: <u>One Hour Martinizing Dry Cleaning Service</u>	Print Name: <u>PAUL M. GARVEY</u>
Street: <u>1233 Military Avenue</u>	Firm: <u>STS Consultants, Ltd.</u>
City/State/Zip: <u>Green Bay, Wisconsin</u>	

NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name One Hour Martinizing Dry Cleaning Service	County Brown	Well Name PZ-1	
Facility License, Permit or Monitoring Number	County Code 5	Wis. Unique Well Number	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 **20 min.**

4. Depth of well (from top of well casing) **22.5 ft.**

5. Inside diameter of well **2.06 in.**

6. Volume of water in filter pack and well casing **8.6 gal.**

7. Volume of water removed from well **8.0 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)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 12.87 ft.	22.45 ft.

Date	b. 06/04/1999	06/04/1999
------	----------------------	-------------------

Time	c. 02:40 pm	03:00 pm
------	--------------------	-----------------

12. Sediment in well bottom **0.5 inches** **0.0 inches**

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

<u>Lt brown - high turb - fine sediment in well</u>	<u>Well purges dry quickly - purged dry 4 times today</u>
_____	_____
_____	_____

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

Jerry Puetz
STS Consultants Ltd.

17. Additional comments on development:

Surged and purged using a 5' PVC bailer - purged dry 4 times - 2.5 gallons to purge dry, less each attempt

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: **One Hour Martinizing Dry Cleaning Service**

Street: **1233 Military Avenue**

City/State/Zip: **Green Bay, Wisconsin**

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

Signature: 

Print Name: **PAUL M. CARVEY**

Firm: **STS Consultants, Ltd.**

NOTE: See instructions for more information including a list of county codes and well type codes.



Robert E. Lee & Associates, Inc.

Engineering, Surveying, Laboratory Services

2825 S. Webster Ave.
P.O. Box 2100
Green Bay, WI 54306-2100
Phone: (920) 336-6338
Fax: (920) 336-9141
E-Mail: rel@netnet.net

Milwaukee Area
830 Armour Rd.
Oconomowoc, WI 53066
Phone: (414)569-8893 1-800-775-8893
Fax: (414)569-7995
Wisconsin Certification Number: 405043870

PAUL GARVEY
STS CONSULTANTS LTD - GREEN BAY
1035 KEPLER DR
GREEN BAY WI 54311

Phone: (920)468-1978
Fax: (920)468-3312
Client ID: 000875100
Contact ID: 3487

Sample Information

Report Date: 6/29/1999
Chain Number: 66180
Project No: 24871XF
Project Name: 24871XF
Receive Date: 6/07/1999
Sample Date: 6/04/1999

Attest:

Steve Herzog

Robert E. Lee & Associates, Inc.
 Wisconsin Certification Number: 405043870
 Certificate of Analysis Report

STS Consultants Ltd - Green Bay
 1035 Kepler Dr

Green Bay WI 54311
 Project Number: 24871XF
 Project Name: 24871XF

Attn.: Paul Garvey
 Phone: (920)468-1978
 Fax: (920)468-3312
 Client ID: 000875100
 Chain: 66180
 Report Date: 6/29/1999

Method	Parameter Name	Result	Units	Flag	MDL	PQL	Anal Date	Analyst
Lab No.	Collect Date	Sample ID						
99REL009700 6/04/1999 PZ-1 (2)								
SM-2540G	Total Solids	84	%		0.010	0.033	6/08/1999	DJN
SW-846-8021B	Volatile Organic Analysis	See Attached					6/15/1999	JF
99REL009701 6/04/1999 PZ-1 (3)								
SM-2540G	Total Solids	84	%		0.010	0.033	6/08/1999	DJN
SW-846-8021B	Volatile Organic Analysis	See Attached					6/14/1999	JF
99REL009702 6/04/1999 MW-2 (3)								
SM-2540G	Total Solids	78	%		0.010	0.033	6/08/1999	DJN
SW-846-8021B	Volatile Organic Analysis	See Attached					6/14/1999	JF
99REL009703 6/04/1999 MEOH BLANK								
SW-846-8021B	Volatile Organic Analysis	See Attached					6/14/1999	JF

ROBERT E. LEE & ASSOCIATES, INC.

CLIENT: STS CONSULTANTS LTD - GREEN BAY
PROJECT: 24871XF
CHAIN NUMBER: 66180

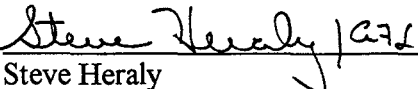
NARRATIVE

This narrative is relevant to sample PZ-1 (2).

The sample was analyzed for volatile organic compounds following SW-846 Method 8260.

The following is a summary of the quality control results:

1. The reported compounds were not detected in the method blank.
2. The precision between the matrix spike recovery and the matrix spike duplicate recovery was within laboratory limits for each of the reported compounds except for 1,1,1-trichloroethane, 1,1-dichloropropene, 1,1-dichloroethene, bromomethane, dichlorodifluoromethane and vinyl chloride. The data was accepted because the compounds were not detected in the sample.
3. The matrix spike recovery was within laboratory limits for each of the reported compounds except for dichlorodifluoromethane which was below laboratory limits. The data was accepted because method spike recoveries were within laboratory limits for these compounds.
4. The matrix spike duplicate recovery was within laboratory limits for each of the reported compounds except for bromomethane which was above laboratory limits. The data was accepted because the compound was not detected in the sample even though the results may have been biased high.
5. The surrogate recovery was within laboratory limits for each of the three surrogates spiked.
6. The initial and final calibration check standards verified the calibration curve for each of the reported compounds.


Steve Heraly
Laboratory Coordinator
JF

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 SOIL/SLUDGE BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants, Ltd-Green Bay
 DATE SAMPLED: June 04, 1999
 DATE ANALYZED: June 15, 1999
 ANALYZED BY: JF

PROJECT: 24871XF
 CHAIN NUMBER: 66180
 REL NUMBER: 99RELO09700
 SAMPLE: PZ-1 (2)
 DILUTION: 1 to 10

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
Benzene	116	387	ND
Bromobenzene	209	696	ND
Bromochloromethane	103	342	ND
Bromodichloromethane	153	511	ND
Bromoform	278	927	ND
Bromomethane	209	696	ND
n-Butylbenzene	24.7	82.4	ND
sec-Butylbenzene	215	717	ND
tert-Butylbenzene	174	581	ND
Carbon Tetrachloride	141	470	ND
Chlorobenzene	59.3	198	ND
Chloroethane	307	1020	ND
Chloroform	124	412	ND
Chloromethane	132	441	ND
2-Chlorotoluene	155	515	ND
4-Chlorotoluene	404	1350	ND
Dibromochloromethane	119	396	ND
1,2-Dibromo-3-Chloropropane	142	474	ND
1,2-Dibromoethane	248	828	ND
Dibromomethane	202	672	ND
1,2-Dichlorobenzene	22.3	74.2	ND
1,3-Dichlorobenzene	300	1000	ND
1,4-Dichlorobenzene	279	931	ND
Dichlorodifluoromethane	169	565	ND
1,1-Dichloroethane	91.5	305	ND
1,2-Dichloroethane	216	721	ND
1,1-Dichloroethene	68.0	227	ND
cis 1,2-Dichloroethene	115	383	ND
trans 1,2-Dichloroethene	130	433	ND
1,2-Dichloropropane	58.1	194	ND

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
1,3-Dichloropropane	162	540	ND
2,2-Dichloropropane	480	1600	ND
1,1-Dichloropropene	156	519	ND
cis-1,3-Dichloropropene	59.3	198	ND
trans-1,3-Dichloropropene	84.1	280	ND
Ethylbenzene	120	400	ND
Hexachlorobutadiene	45.7	152	ND
Isopropylbenzene	143	478	ND
p-Isopropyltoluene	76.6	255	ND
Methylene Chloride	157	523	ND
Naphthalene	50.7	169	ND
n-Propylbenzene	221	738	ND
Styrene	51.9	173	ND
1,1,1,2-Tetrachloroethane	116	387	ND
1,1,2,2-Tetrachloroethane	323	1080	ND
Tetrachloroethene	208	692	10100
Toluene	68.0	227	ND
1,2,3-Trichlorobenzene	32.1	107	ND
1,2,4-Trichlorobenzene	30.9	103	ND
1,1,1-Trichloroethane	187	622	ND
1,1,2-Trichloroethane	124	412	ND
Trichloroethene	131	437	511
Trichlorofluoromethane	303	1010	ND
1,2,3-Trichloropropane	612	2040	ND
1,2,4-Trimethylbenzene	287	956	ND
1,3,5-Trimethylbenzene	214	713	ND
Vinyl Chloride	86.5	288	ND
m&p-Xylene	242	808	ND
o-Xylene	110	367	ND

MDL's and results based on dry weight.

Dibromofluoromethane surrogate recovery..... 102 %
 Toluene-d8 surrogate recovery..... 108 %
 Bromofluorobenzene surrogate recovery..... 101 %

ND= COMPOUND NOT DETECTED AT OR ABOVE MDL
 MDL= METHOD DETECTION LIMIT
 (p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST Steve Healy JCF

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

ROBERT E. LEE & ASSOCIATES, INC.

CLIENT: STS CONSULTANTS LTD - GREEN BAY
PROJECT: 24871XF
CHAIN NUMBER: 66180

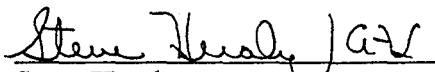
NARRATIVE

This narrative is relevant to samples PZ-1 (3) and MW-2 (3).

The samples were analyzed for volatile organic compounds following SW-846 Method 8260.

The following is a summary of the quality control results:

1. The reported compounds were not detected in the method blank.
2. The precision between the matrix spike recovery and the matrix spike duplicate recovery was within laboratory limits for each of the reported compounds except for dichlorodifluoromethane, chloromethane, vinyl chloride, chloroethane and trichlorofluoromethane. The data was accepted because the compounds were not detected in the samples.
3. The matrix spike recovery was within laboratory limits for each of the reported compounds except for dichlorodifluoromethane which was below laboratory. The data was accepted because method spike recoveries were within laboratory limits for this compound.
4. The matrix spike duplicate recovery was within laboratory limits for each of the reported compounds.
5. The surrogate recovery for all samples was within laboratory limits for each of the three surrogates spiked.
6. The initial and final calibration check standards verified the calibration curve for each of the reported compounds.


Steve Heraly
Laboratory Coordinator
JF

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 SOIL/SLUDGE BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants, Ltd-Green Bay

DATE SAMPLED: June 04, 1999
 DATE ANALYZED: June 14, 1999
 ANALYZED BY: JF

PROJECT: 24871XF

CHAIN NUMBER: 66180
 REL NUMBER: 99RELO09701
 SAMPLE: PZ-1 (3)
 DILUTION: None

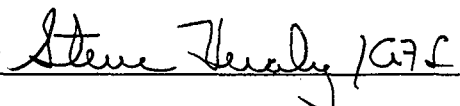
ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
Benzene	11.4	38.0	ND
Bromobenzene	20.5	68.3	ND
Bromochloromethane	10.1	33.5	ND
Bromodichloromethane	15.0	50.1	ND
Bromoform	27.3	90.9	ND
Bromomethane	20.5	68.3	ND
n-Butylbenzene	2.42	8.08	ND
sec-Butylbenzene	21.1	70.3	ND
tert-Butylbenzene	17.1	57.0	ND
Carbon Tetrachloride	13.8	46.1	ND
Chlorobenzene	5.82	19.4	ND
Chloroethane	30.1	100	ND
Chloroform	12.1	40.4	ND
Chloromethane	13.0	43.2	ND
2-Chlorotoluene	15.2	50.5	ND
4-Chlorotoluene	39.6	132	ND
Dibromochloromethane	11.6	38.8	ND
1,2-Dibromo-3-Chloropropane	13.9	46.5	ND
1,2-Dibromoethane	24.4	81.2	ND
Dibromomethane	19.8	65.9	ND
1,2-Dichlorobenzene	2.18	7.27	ND
1,3-Dichlorobenzene	29.5	98.2	ND
1,4-Dichlorobenzene	27.4	91.3	ND
Dichlorodifluoromethane	16.6	55.4	ND
1,1-Dichloroethane	8.97	29.9	ND
1,2-Dichloroethane	21.2	70.7	ND
1,1-Dichloroethene	6.67	22.2	ND
cis-1,2-Dichloroethene	11.3	37.6	21.2 (p)
trans-1,2-Dichloroethene	12.7	42.4	ND
1,2-Dichloropropane	5.70	19.0	ND

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
1,3-Dichloropropane	15.9	52.9	ND
2,2-Dichloropropane	47.0	157	ND
1,1-Dichloropropene	15.3	50.9	ND
cis-1,3-Dichloropropene	5.82	19.4	ND
trans-1,3-Dichloropropene	8.24	27.5	ND
Ethylbenzene	11.8	39.2	ND
Hexachlorobutadiene	4.49	15.0	ND
Isopropylbenzene	14.1	46.9	ND
p-Isopropyltoluene	7.52	25.1	ND
Methylene Chloride	15.4	51.3	ND
Naphthalene	4.97	16.6	ND
n-Propylbenzene	21.7	72.3	ND
Styrene	5.09	17.0	ND
1,1,1,2-Tetrachloroethane	11.4	38.0	ND
1,1,2,2-Tetrachloroethane	31.6	105	ND
Tetrachloroethene	20.4	67.9	2760
Toluene	6.67	22.2	ND
1,2,3-Trichlorobenzene	3.15	10.5	ND
1,2,4-Trichlorobenzene	3.03	10.1	ND
1,1,1-Trichloroethane	18.3	61.0	ND
1,1,2-Trichloroethane	12.1	40.4	ND
Trichloroethene	12.9	42.8	134
Trichlorofluoromethane	29.7	99.0	ND
1,2,3-Trichloropropane	60.0	200	ND
1,2,4-Trimethylbenzene	28.1	93.8	ND
1,3,5-Trimethylbenzene	21.0	69.9	ND
Vinyl Chloride	8.49	28.3	ND
m&p-Xylene	23.8	79.2	ND
o-Xylene	10.8	36.0	ND

MDL's and results based on dry weight.

Dibromofluoromethane surrogate recovery..... 104 %
 Toluene-d8 surrogate recovery..... 107 %
 Bromofluorobenzene surrogate recovery..... 104 %

ND = COMPOUND NOT DETECTED AT OR ABOVE MDL
 MDL = METHOD DETECTION LIMIT
 (p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST  JCH

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 SOIL/SLUDGE BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants, Ltd-Green Bay
 DATE SAMPLED: June 04, 1999
 DATE ANALYZED: June 14, 1999
 ANALYZED BY: JF

PROJECT: 24871XF
 CHAIN NUMBER: 66180
 REL NUMBER: 99REL009702
 SAMPLE: MW-2 (3)
 DILUTION: None

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
Benzene	12.6	42.1	ND
Bromobenzene	22.7	75.7	ND
Bromochloromethane	11.2	37.2	ND
Bromodichloromethane	16.7	55.6	ND
Bromoform	30.2	101	ND
Bromomethane	22.7	75.7	ND
n-Butylbenzene	2.69	8.96	ND
sec-Butylbenzene	23.4	78.0	ND
tert-Butylbenzene	19.0	63.2	ND
Carbon Tetrachloride	15.3	51.1	ND
Chlorobenzene	6.45	21.5	ND
Chloroethane	33.3	111	ND
Chloroform	13.4	44.8	ND
Chloromethane	14.4	47.9	ND
2-Chlorotoluene	16.8	56.0	ND
4-Chlorotoluene	44.0	147	ND
Dibromochloromethane	12.9	43.0	ND
1,2-Dibromo-3-Chloropropane	15.5	51.5	ND
1,2-Dibromoethane	27.0	90.1	ND
Dibromomethane	21.9	73.0	ND
1,2-Dichlorobenzene	2.42	8.07	ND
1,3-Dichlorobenzene	32.7	109	ND
1,4-Dichlorobenzene	30.4	101	ND
Dichlorodifluoromethane	18.4	61.4	ND
1,1-Dichloroethane	9.95	33.2	ND
1,2-Dichloroethane	23.5	78.4	ND
1,1-Dichloroethene	7.39	24.6	ND
cis 1,2-Dichloroethene	12.5	41.7	ND
trans 1,2-Dichloroethene	14.1	47.1	ND
1,2-Dichloropropane	6.32	21.1	ND

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
1,3-Dichloropropane	17.6	58.7	ND
2,2-Dichloropropane	52.2	174	ND
1,1-Dichloropropene	16.9	56.5	ND
cis-1,3-Dichloropropene	6.45	21.5	ND
trans-1,3-Dichloropropene	9.14	30.5	ND
Ethylbenzene	13.0	43.5	ND
Hexachlorobutadiene	4.97	16.6	ND
Isopropylbenzene	15.6	52.0	ND
p-Isopropyltoluene	8.33	27.8	ND
Methylene Chloride	17.1	56.9	ND
Naphthalene	5.51	18.4	ND
n-Propylbenzene	24.1	80.2	ND
Styrene	5.65	18.8	ND
1,1,1,2-Tetrachloroethane	12.6	42.1	ND
1,1,2,2-Tetrachloroethane	35.1	117	ND
Tetrachloroethene	22.6	75.3	106
Toluene	7.39	24.6	ND
1,2,3-Trichlorobenzene	3.50	11.7	ND
1,2,4-Trichlorobenzene	3.36	11.2	ND
1,1,1-Trichloroethane	20.3	67.7	ND
1,1,2-Trichloroethane	13.4	44.8	ND
Trichloroethene	14.2	47.5	ND
Trichlorofluoromethane	32.9	110	ND
1,2,3-Trichloropropane	66.5	222	ND
1,2,4-Trimethylbenzene	31.2	104	ND
1,3,5-Trimethylbenzene	23.3	77.5	ND
Vinyl Chloride	9.41	31.4	ND
m&p-Xylene	26.3	87.8	ND
o-Xylene	12.0	39.9	ND

MDL's and results based on dry weight.

Dibromofluoromethane surrogate recovery..... 100 %
 Toluene-d8 surrogate recovery..... 104 %
 Bromofluorobenzene surrogate recovery..... 99 %

ND = COMPOUND NOT DETECTED AT OR ABOVE MDL
 MDL = METHOD DETECTION LIMIT
 (p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST Steve Herald / GFL

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

ROBERT E. LEE & ASSOCIATES, INC.

CLIENT: STS CONSULTANTS LTD - GREEN BAY
PROJECT: 24871XF
CHAIN NUMBER: 66180

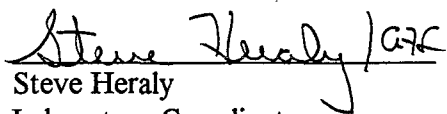
NARRATIVE

This narrative is relevant to sample MEOH BLANK.

The sample was analyzed for volatile organic compounds following SW-846 Method 8260.

The following is a summary of the quality control results:

1. The reported compounds were not detected in the method blank.
2. The precision between the matrix spike recovery and the matrix spike duplicate recovery was within laboratory limits for each of the reported compounds.
3. The matrix spike recovery was within laboratory limits for each of the reported compounds.
4. The matrix spike duplicate recovery was within laboratory limits for each of the reported compounds.
5. The surrogate recovery was within laboratory limits for each of the three surrogates spiked.
6. The initial and final calibration check standards verified the calibration curve for each of the reported compounds.


Steve Heraly
Laboratory Coordinator
JF

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 SOIL/SLUDGE BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants, Ltd-Green Bay
 DATE SAMPLED: June 04, 1999
 DATE ANALYZED: June 14, 1999
 ANALYZED BY: JF

PROJECT: 24871XF
 CHAIN NUMBER: 66180
 REL NUMBER: 99REL009703
 SAMPLE: MEOH BLANK
 DILUTION: None

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
Benzene	9.40	31.3	ND
Bromobenzene	16.9	56.3	ND
Bromochloromethane	8.30	27.7	ND
Bromodichloromethane	12.4	41.3	ND
Bromoform	22.5	75.0	ND
Bromomethane	16.9	56.3	ND
n-Butylbenzene	2.00	6.67	ND
sec-Butylbenzene	17.4	58.0	ND
tert-Butylbenzene	14.1	47.0	ND
Carbon Tetrachloride	11.4	38.0	ND
Chlorobenzene	4.80	16.0	ND
Chloroethane	24.8	82.7	ND
Chloroform	10.0	33.3	ND
Chloromethane	10.7	35.7	ND
2-Chlorotoluene	12.5	41.7	ND
4-Chlorotoluene	32.7	109	ND
Dibromochloromethane	9.60	32.0	ND
1,2-Dibromo-3-Chloropropane	11.5	38.3	ND
1,2-Dibromoethane	20.1	67.0	ND
Dibromomethane	16.3	54.3	ND
1,2-Dichlorobenzene	1.80	6.00	ND
1,3-Dichlorobenzene	24.3	81.0	ND
1,4-Dichlorobenzene	22.6	75.3	ND
Dichlorodifluoromethane	13.7	45.7	ND
1,1-Dichloroethane	7.40	24.7	ND
1,2-Dichloroethane	17.5	58.3	ND
1,1-Dichloroethene	5.50	18.3	ND
cis 1,2-Dichloroethene	9.30	31.0	ND
trans 1,2-Dichloroethene	10.5	35.0	ND
1,2-Dichloropropane	4.70	15.7	ND

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
1,3-Dichloropropane	13.1	43.7	ND
2,2-Dichloropropane	38.8	129	ND
1,1-Dichloropropene	12.6	42.0	ND
cis-1,3-Dichloropropene	4.80	16.0	ND
trans-1,3-Dichloropropene	6.80	22.7	ND
Ethylbenzene	9.70	32.3	ND
Hexachlorobutadiene	3.70	12.3	ND
Isopropylbenzene	11.6	38.7	ND
p-Isopropyltoluene	6.20	20.7	ND
Methylene Chloride	12.7	42.3	ND
Naphthalene	4.10	13.7	ND
n-Propylbenzene	17.9	59.7	ND
Styrene	4.20	14.0	ND
1,1,1,2-Tetrachloroethane	9.40	31.3	ND
1,1,2,2-Tetrachloroethane	26.1	87.0	ND
Tetrachloroethene	16.8	56.0	ND
Toluene	5.50	18.3	ND
1,2,3-Trichlorobenzene	2.60	8.67	ND
1,2,4-Trichlorobenzene	2.50	8.33	ND
1,1,1-Trichloroethane	15.1	50.3	ND
1,1,2-Trichloroethane	10.0	33.3	ND
Trichloroethene	10.6	35.3	ND
Trichlorofluoromethane	24.5	81.7	ND
1,2,3-Trichloropropane	49.5	165	ND
1,2,4-Trimethylbenzene	23.2	77.3	ND
1,3,5-Trimethylbenzene	17.3	57.7	ND
Vinyl Chloride	7.00	23.3	ND
m&p-Xylene	19.6	65.3	ND
o-Xylene	8.90	29.7	ND

MDL's and results based on dry weight.

Dibromofluoromethane surrogate recovery..... 97 %
 Toluene-d8 surrogate recovery..... 101 %
 Bromofluorobenzene surrogate recovery..... 96 %

ND = COMPOUND NOT DETECTED AT OR ABOVE MDL
 MDL = METHOD DETECTION LIMIT
 (p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST Steve Herold / a7c

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

CHAIN OF CUSTODY RECORD

No. 26181 CC# 66180



Contact Person Paul Garvey
 Phone No. (920) 468-1978 Office Green Bay
 Project No. 24871XF PO No. _____
 Project Name ~~24871XF~~ 24871XF

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

RECORD NUMBER _____ THROUGH _____

Laboratory Robert E. Lee
 Contact Person Paul Knuth
 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					
PZ-1 (2)	1999 6/4	09:35	X		2	Soil	X	X					VOC (8021), Total Solids	9700	28.89g
PZ-1 (3)		09:45	X		2	↓							↓	9701	29.46g
MW-2 (3)		13:25			2	↓							↓	9702	28.61g
MW-2 (3)		13:35			2	—									
MeOH Blank	-	-			1	MeOH	X						VOC (8021)	9703	

Req Paul Garvey

RELF#

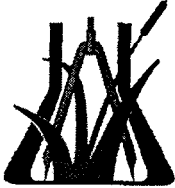
Collected by: <u>Jerry C. Puet</u>	Date <u>6/4/99</u>	Time <u>09:35</u>	Delivery by: <u>Scott R. Duffy</u>	Date <u>6/7/99</u>	Time <u>3:25P</u>
Received by: <u>Shannon J. Courtney</u>	Date <u>6/4/99</u>	Time <u>17:00</u>	Relinquished by:	Date	Time
Received by: <u>Paul Knuth</u>	Date <u>6/7/99</u>	Time <u>1:00P</u>	Relinquished by:	Date	Time
Received by: <u>Scott R. Duffy</u>	Date <u>6/7/99</u>	Time <u>1:00P</u>	Relinquished by:	Date	Time
Received for lab by: <u>Paul Knuth</u>	Date <u>6-7-99</u>	Time <u>3:25P</u>	Relinquished by:	Date	Time

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

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.

9/94cp10k



Robert E. Lee & Associates, Inc.

Engineering, Surveying, Laboratory Services

2825 S. Webster Ave.
P.O. Box 2100
Green Bay, WI 54306-2100
Phone: (920) 336-6338
Fax: (920) 336-9141
E-Mail: rel@netnet.net

Milwaukee Area
830 Armour Rd.
Oconomowoc, WI 53066
Phone: (414)569-8893 1-800-775-8893
Fax: (414)569-7995
Wisconsin Certification Number: 405043870

**PAUL GARVEY
STS CONSULTANTS LTD - GREEN BAY
1035 KEPLER DR
GREEN BAY WI 54311**

Phone: (920)468-1978
Fax: (920)468-3312
Client ID: 000875100
Contact ID: 3487

Sample Information

Report Date: 6/25/1999
Chain Number: 66198
Project No: 24871XF
Project Name: MARTINIZING-1233 S MILITARY
Receive Date: 6/08/1999
Sample Date: 6/07/1999

Attest:

Steve Herzog

Robert E. Lee & Associates, Inc.
 Wisconsin Certification Number: 405043870
 Certificate of Analysis Report

STS Consultants Ltd - Green Bay
 1035 Kepler Dr

Green Bay WI 54311
 Project Number: 24871XF
 Project Name: MARTINIZING-1233 S MILITARY

Attn.: Paul Garvey
 Phone: (920)468-1978
 Fax: (920)468-3312
 Client ID: 000875100
 Chain: 66198
 Report Date: 6/25/1999

Method	Parameter Name	Result	Units	Flag	MDL	PQL	Analysis Date	Analyst
99REL009793	6/07/1999	MW-3, S-2						
SM-2540G	Total Solids	80	%		0.010	0.033	6/09/1999	DJN
SW-846-8021B	Volatile Organic Analysis	See Attached					6/15/1999	JF
99REL009794	6/07/1999	MW-3, S-4						
SM-2540G	Total Solids	77	%		0.010	0.033	6/09/1999	DJN
SW-846-8021B	Volatile Organic Analysis	See Attached					6/15/1999	JF
99REL009795	6/07/1999	MW-4, S-2						
SM-2540G	Total Solids	82	%		0.010	0.033	6/09/1999	DJN
SW-846-8021B	Volatile Organic Analysis	See Attached					6/15/1999	JF

ROBERT E. LEE & ASSOCIATES, INC.

CLIENT: STS CONSULTANTS LTD - GREEN BAY
PROJECT: 24871XF / MARTINIZING-1233 S MILITARY
CHAIN NUMBER: 66198

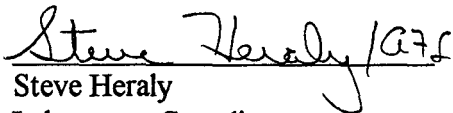
NARRATIVE

This narrative is relevant to samples MW-3, S-2; MW-3, S-4 and MW-4, S-2.

The samples were analyzed for volatile organic compounds following SW-846 Method 8260.

The following is a summary of the quality control results:

1. The reported compounds were not detected in the method blank.
2. The precision between the matrix spike recovery and the matrix spike duplicate recovery was within laboratory limits for each of the reported compounds.
3. The matrix spike recovery was within laboratory limits for each of the reported compounds.
4. The matrix spike duplicate recovery was within laboratory limits for each of the reported compounds.
5. The surrogate recovery for all samples was within laboratory limits for each of the three surrogates spiked.
6. The initial and final calibration check standards verified the calibration curve for each of the reported compounds.


Steve Heraly
Laboratory Coordinator
JF

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 SOIL/SLUDGE BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants, Ltd - Green Bay
 DATE SAMPLED: June 07, 1999
 DATE ANALYZED: June 15, 1999
 ANALYZED BY: JF

PROJECT: 24871XF/Martinizing
 CHAIN NUMBER: 66198
 REL NUMBER: 99RELO09793
 SAMPLE: MW-3, S-2
 DILUTION: None

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
Benzene	11.7	39.1	ND
Bromobenzene	21.1	70.3	ND
Bromochloromethane	10.4	34.5	ND
Bromodichloromethane	15.5	51.6	ND
Bromoform	28.1	93.6	ND
Bromomethane	21.1	70.3	ND
n-Butylbenzene	2.50	8.32	ND
sec-Butylbenzene	21.7	72.4	ND
tert-Butylbenzene	17.6	58.7	ND
Carbon Tetrachloride	14.2	47.4	ND
Chlorobenzene	5.99	20.0	ND
Chloroethane	30.9	103	ND
Chloroform	12.5	41.6	ND
Chloromethane	13.4	44.5	ND
2-Chlorotoluene	15.6	52.0	ND
4-Chlorotoluene	40.8	136	ND
Dibromochloromethane	12.0	39.9	ND
1,2-Dibromo-3-Chloropropane	14.4	47.8	ND
1,2-Dibromoethane	25.1	83.6	ND
Dibromomethane	20.3	67.8	ND
1,2-Dichlorobenzene	2.25	7.49	ND
1,3-Dichlorobenzene	30.3	101	ND
1,4-Dichlorobenzene	28.2	94.0	ND
Dichlorodifluoromethane	17.1	57.0	ND
1,1-Dichloroethane	9.23	30.8	ND
1,2-Dichloroethane	21.8	72.8	ND
1,1-Dichloroethene	6.86	22.9	ND
cis 1,2-Dichloroethene	11.6	38.7	ND
trans 1,2-Dichloroethene	13.1	43.7	ND
1,2-Dichloropropane	5.87	19.6	ND

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
1,3-Dichloropropane	16.3	54.5	ND
2,2-Dichloropropane	48.4	161	ND
1,1-Dichloropropene	15.7	52.4	ND
cis-1,3-Dichloropropene	5.99	20.0	ND
trans-1,3-Dichloropropene	8.49	28.3	ND
Ethylbenzene	12.1	40.3	ND
Hexachlorobutadiene	4.62	15.4	ND
Isopropylbenzene	14.5	48.3	ND
p-Isopropyltoluene	7.74	25.8	ND
Methylene Chloride	15.8	52.8	ND
Naphthalene	5.12	17.1	ND
n-Propylbenzene	22.3	74.5	ND
Styrene	5.24	17.5	ND
1,1,1,2-Tetrachloroethane	11.7	39.1	ND
1,1,2,2-Tetrachloroethane	32.6	109	ND
Tetrachloroethene	21.0	69.9	ND
Toluene	6.86	22.9	ND
1,2,3-Trichlorobenzene	3.24	10.8	ND
1,2,4-Trichlorobenzene	3.12	10.4	ND
1,1,1-Trichloroethane	18.8	62.8	ND
1,1,2-Trichloroethane	12.5	41.6	ND
Trichloroethene	13.2	44.1	ND
Trichlorofluoromethane	30.6	102	ND
1,2,3-Trichloropropane	61.8	206	ND
1,2,4-Trimethylbenzene	29.0	96.5	ND
1,3,5-Trimethylbenzene	21.6	72.0	ND
Vinyl Chloride	8.74	29.1	ND
m&p-Xylene	24.5	81.5	ND
o-Xylene	11.1	37.0	ND

MDL's and results based on dry weight.

Dibromofluoromethane surrogate recovery..... 97 %
 Toluene-d8 surrogate recovery..... 101 %
 Bromofluorobenzene surrogate recovery..... 96 %

ND = COMPOUND NOT DETECTED AT OR ABOVE MDL
 MDL = METHOD DETECTION LIMIT
 (p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST Steve Herold / JF

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 SOIL/SLUDGE BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants, Ltd - Green Bay
 DATE SAMPLED: June 07, 1999
 DATE ANALYZED: June 15, 1999
 ANALYZED BY: JF

PROJECT: 24871XF/Martinizing
 CHAIN NUMBER: 66198
 REL NUMBER: 99RELO09794
 SAMPLE: MW-3, S-4
 DILUTION: None

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
Benzene	12.9	43.1	ND
Bromobenzene	23.2	77.4	ND
Bromochloromethane	11.4	38.0	ND
Bromodichloromethane	17.0	56.8	ND
Bromoform	30.9	103	ND
Bromomethane	23.2	77.4	ND
n-Butylbenzene	2.75	9.17	ND
sec-Butylbenzene	23.9	79.7	ND
tert-Butylbenzene	19.4	64.6	ND
Carbon Tetrachloride	15.7	52.2	ND
Chlorobenzene	6.60	22.0	ND
Chloroethane	34.1	114	ND
Chloroform	13.7	45.8	ND
Chloromethane	14.7	49.0	ND
2-Chlorotoluene	17.2	57.3	ND
4-Chlorotoluene	45.0	150	ND
Dibromochloromethane	13.2	44.0	ND
1,2-Dibromo-3-Chloropropane	15.8	52.7	ND
1,2-Dibromoethane	27.6	92.1	ND
Dibromomethane	22.4	74.7	ND
1,2-Dichlorobenzene	2.47	8.25	ND
1,3-Dichlorobenzene	33.4	111	ND
1,4-Dichlorobenzene	31.1	104	ND
Dichlorodifluoromethane	18.8	62.8	ND
1,1-Dichloroethane	10.2	33.9	ND
1,2-Dichloroethane	24.1	80.2	ND
1,1-Dichloroethene	7.56	25.2	ND
cis 1,2-Dichloroethene	12.8	42.6	ND
trans 1,2-Dichloroethene	14.4	48.1	ND
1,2-Dichloropropane	6.46	21.5	ND

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
1,3-Dichloropropane	18.0	60.0	ND
2,2-Dichloropropane	53.3	178	ND
1,1-Dichloropropene	17.3	57.7	ND
cis-1,3-Dichloropropene	6.60	22.0	ND
trans-1,3-Dichloropropene	9.35	31.2	ND
Ethylbenzene	13.3	44.5	ND
Hexachlorobutadiene	5.09	17.0	ND
Isopropylbenzene	15.9	53.2	ND
p-Isopropyltoluene	8.52	28.4	ND
Methylene Chloride	17.5	58.2	ND
Naphthalene	5.64	18.8	ND
n-Propylbenzene	24.6	82.0	ND
Styrene	5.77	19.2	ND
1,1,1,2-Tetrachloroethane	12.9	43.1	ND
1,1,2,2-Tetrachloroethane	35.9	120	ND
Tetrachloroethene	23.1	77.0	378
Toluene	7.56	25.2	ND
1,2,3-Trichlorobenzene	3.57	11.9	ND
1,2,4-Trichlorobenzene	3.44	11.5	ND
1,1,1-Trichloroethane	20.8	69.2	ND
1,1,2-Trichloroethane	13.7	45.8	ND
Trichloroethene	14.6	48.6	ND
Trichlorofluoromethane	33.7	112	ND
1,2,3-Trichloropropane	68.1	227	ND
1,2,4-Trimethylbenzene	31.9	106	ND
1,3,5-Trimethylbenzene	23.8	79.3	ND
Vinyl Chloride	9.62	32.1	ND
m&p-Xylene	26.9	89.8	ND
o-Xylene	12.2	40.8	ND

MDL's and results based on dry weight.

Dibromofluoromethane surrogate recovery..... 100 %
 Toluene-d8 surrogate recovery..... 104 %
 Bromofluorobenzene surrogate recovery..... 99 %

ND= COMPOUND NOT DETECTED AT OR ABOVE MDL

MDL= METHOD DETECTION LIMIT

(p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST Steve Healy / CTS

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 SOIL/SLUDGE BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants, Ltd - Green Bay
 DATE SAMPLED: June 07, 1999
 DATE ANALYZED: June 15, 1999
 ANALYZED BY: JF

PROJECT: 24871XF/Martinizing
 CHAIN NUMBER: 66198
 REL NUMBER: 99RE009795
 SAMPLE: MW-4, S-2
 DILUTION: None

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
Benzene	11.7	39.1	ND
Bromobenzene	21.1	70.3	ND
Bromochloromethane	10.4	34.5	ND
Bromodichloromethane	15.5	51.6	ND
Bromoform	28.1	93.6	ND
Bromomethane	21.1	70.3	ND
n-Butylbenzene	2.49	8.32	ND
sec-Butylbenzene	21.7	72.3	ND
tert-Butylbenzene	17.6	58.6	ND
Carbon Tetrachloride	14.2	47.4	ND
Chlorobenzene	5.99	20.0	ND
Chloroethane	30.9	103	ND
Chloroform	12.5	41.6	ND
Chloromethane	13.3	44.5	ND
2-Chlorotoluene	15.6	52.0	ND
4-Chlorotoluene	40.8	136	ND
Dibromochloromethane	12.0	39.9	ND
1,2-Dibromo-3-Chloropropane	14.3	47.8	ND
1,2-Dibromoethane	25.1	83.6	ND
Dibromomethane	20.3	67.8	ND
1,2-Dichlorobenzene	2.25	7.48	ND
1,3-Dichlorobenzene	30.3	101	ND
1,4-Dichlorobenzene	28.2	94.0	ND
Dichlorodifluoromethane	17.1	57.0	ND
1,1-Dichloroethane	9.23	30.8	ND
1,2-Dichloroethane	21.8	72.8	ND
1,1-Dichloroethene	6.86	22.9	ND
cis 1,2-Dichloroethene	11.6	38.7	ND
trans 1,2-Dichloroethene	13.1	43.7	ND
1,2-Dichloropropane	5.86	19.5	ND

ANALYTE	MDL ug/Kg	PQL ug/Kg	RESULT ug/Kg
1,3-Dichloropropane	16.3	54.5	ND
2,2-Dichloropropane	48.4	161	ND
1,1-Dichloropropene	15.7	52.4	ND
cis-1,3-Dichloropropene	5.99	20.0	ND
trans-1,3-Dichloropropene	8.48	28.3	ND
Ethylbenzene	12.1	40.3	ND
Hexachlorobutadiene	4.62	15.4	ND
Isopropylbenzene	14.5	48.2	ND
p-Isopropyltoluene	7.73	25.8	ND
Methylene Chloride	15.8	52.8	ND
Naphthalene	5.11	17.0	ND
n-Propylbenzene	22.3	74.4	ND
Styrene	5.24	17.5	ND
1,1,1,2-Tetrachloroethane	11.7	39.1	ND
1,1,2,2-Tetrachloroethane	32.6	109	ND
Tetrachloroethene	21.0	69.9	ND
Toluene	6.86	22.9	ND
1,2,3-Trichlorobenzene	3.24	10.8	ND
1,2,4-Trichlorobenzene	3.12	10.4	ND
1,1,1-Trichloroethane	18.8	62.8	ND
1,1,2-Trichloroethane	12.5	41.6	ND
Trichloroethene	13.2	44.1	ND
Trichlorofluoromethane	30.6	102	ND
1,2,3-Trichloropropane	61.7	206	ND
1,2,4-Trimethylbenzene	28.9	96.5	ND
1,3,5-Trimethylbenzene	21.6	71.9	ND
Vinyl Chloride	8.73	29.1	ND
m&p-Xylene	24.4	81.5	ND
o-Xylene	11.1	37.0	ND

MDL's and results based on dry weight.

Dibromofluoromethane surrogate recovery..... 98 %
 Toluene-d8 surrogate recovery..... 101 %
 Bromofluorobenzene surrogate recovery..... 96 %

ND = COMPOUND NOT DETECTED AT OR ABOVE MDL
 MDL = METHOD DETECTION LIMIT
 (p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST Steve Healy JGZ

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

CHAIN OF CUSTODY RECORD

No. 26021 COC# 66198R



Contact Person PAUL GARVEY
 Phone No. 468-1978 Office G.B.
 Project No. 24871XF PO No. _____
 Project Name MARTINIZING 1233 S. MILITARY AVE

Special Handling Request

Rush
 Verbal
 Other

RECORD NUMBER 1 THROUGH 1
 Laboratory REL
 Contact Person P.K.
 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				
MW-3, S-2	6/7		8		3	SOIL	8	8					VOCs & % SOLIDS	9793
MW-3, S-4														9794
MW-4, S-2														9795

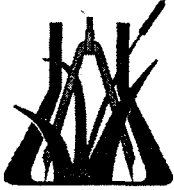
Collected by: <u>[Signature]</u>	Date <u>6-7-99</u>	Time <u>2:00P</u>	Delivery by: <u>Seattle Hydro</u>	Date <u>6/8/99</u>	Time <u>3:50P</u>
Received by: <u>[Signature]</u>	Date <u>6/8/99</u>	Time <u>3:15P</u>	Relinquished by: _____	Date _____	Time _____
Received by: <u>Seattle Hydro</u>	Date <u>6/8/99</u>	Time <u>3:15P</u>	Relinquished by: _____	Date _____	Time _____
Received by: _____	Date _____	Time _____	Relinquished by: _____	Date _____	Time _____
Received for lab by: <u>[Signature]</u>	Date <u>6-8-99</u>	Time <u>1:51P</u>	Relinquished by: _____	Date _____	Time _____

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

Final Disposition: _____

Comments (Weather Conditions, Precautions, Hazards): Regular VOC 8021 list

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.



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Wisconsin Certification Number: 405043870

PAUL GARVEY
STS CONSULTANTS LTD - GREEN BAY
1035 KEPLER DR
GREEN BAY WI 54311

Phone: (920)468-1978
Fax: (920)468-3312
Client ID: 000875100
Contact ID: 3487

Sample Information

Report Date: 7/07/1999
Chain Number: 66282
Project No: 24871XF
Project Name: MARTINIZING-1233 S MILITARY
Receive Date: 6/17/1999
Sample Date: 6/17/1999

Attest:

Stu Herzog

ROBERT E. LEE & ASSOCIATES, INC.

CLIENT: STS CONSULTANTS LTD - GREEN BAY
PROJECT: 24871XF / MARTINIZING - 1233 S MILITARY
CHAIN NUMBER: 66282

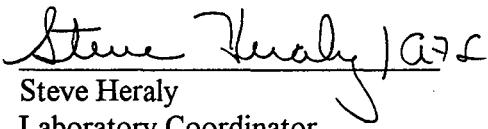
NARRATIVE

This narrative is relevant to sample MW-1.

The sample was analyzed for volatile organic compounds following SW-846 Method 8260.

The following is a summary of the quality control results:

1. The reported compounds were not detected in the method blank.
2. The precision between the matrix spike recovery and the matrix spike duplicate recovery was within laboratory limits for each of the reported compounds.
3. The matrix spike recovery was within laboratory limits for each of the reported compounds.
4. The matrix spike duplicate recovery was within laboratory limits for each of the reported compounds.
5. The surrogate recovery was within laboratory limits for each of the three surrogates spiked.
6. The initial and final calibration check standards verified the calibration curve for each of the reported compounds.


Steve Heraly
Laboratory Coordinator
JF

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 A LIQUID BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants Ltd-Green Bay
 DATE SAMPLED: June 17, 1999
 DATE ANALYZED: June 26, 1999
 ANALYZED BY: JF

PROJECT: 24871XF/Martinizing
 CHAIN NUMBER: 66282
 REL NUMBER: 99RELO10572
 SAMPLE: MW-1
 DILUTION: 1 to 500

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
Benzene	94.0	313	ND
Bromobenzene	169	563	ND
Bromochloromethane	83.0	277	ND
Bromodichloromethane	124	413	ND
Bromoform	225	750	ND
Bromomethane	169	563	ND
n-Butylbenzene	20.0	66.7	ND
sec-Butylbenzene	174	580	ND
tert-Butylbenzene	141	470	ND
Carbon Tetrachloride	114	380	ND
Chlorobenzene	48.0	160	ND
Chloroethane	248	827	ND
Chloroform	100	333	ND
Chloromethane	107	357	ND
2-Chlorotoluene	125	417	ND
4-Chlorotoluene	327	1090	ND
Dibromochloromethane	96.0	320	ND
1,2-Dibromo-3-Chloropropane	115	383	ND
1,2-Dibromoethane	201	670	ND
Dibromomethane	163	543	ND
1,2-Dichlorobenzene	18.0	60.0	ND
1,3-Dichlorobenzene	243	810	ND
1,4-Dichlorobenzene	226	753	ND
Dichlorodifluoromethane	137	457	ND
1,1-Dichloroethane	74.0	247	ND
1,2-Dichloroethane	175	583	ND
1,1-Dichloroethene	55.0	183	ND
cis 1,2-Dichloroethene	93.0	310	ND
trans 1,2-Dichloroethene	105	350	ND
1,2-Dichloropropane	47.0	157	ND

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
1,3-Dichloropropane	131	437	ND
2,2-Dichloropropane	388	1290	ND
1,1-Dichloropropene	126	420	ND
cis-1,3-Dichloropropene	48.0	160	ND
trans-1,3-Dichloropropene	68.0	227	ND
Ethylbenzene	97.0	323	ND
Hexachlorobutadiene	37.0	123	ND
Isopropylbenzene	116	387	ND
p-Isopropyltoluene	62.0	207	ND
Methylene Chloride	127	423	ND
Naphthalene	41.0	137	ND
n-Propylbenzene	179	597	ND
Styrene	42.0	140	ND
1,1,1,2-Tetrachloroethane	94.0	313	ND
1,1,2,2-Tetrachloroethane	261	870	ND
Tetrachloroethene	168	560	22800
Toluene	55.0	183	ND
1,2,3-Trichlorobenzene	26.0	86.7	ND
1,2,4-Trichlorobenzene	25.0	83.3	ND
1,1,1-Trichloroethane	151	503	257 (p)
1,1,2-Trichloroethane	100	333	ND
Trichloroethene	106	353	233 (p)
Trichlorofluoromethane	245	817	ND
1,2,3-Trichloropropane	495	1650	ND
1,2,4-Trimethylbenzene	232	773	ND
1,3,5-Trimethylbenzene	173	577	ND
Vinyl Chloride	70.0	233	ND
m&p-Xylene	196	653	ND
o-Xylene	89.0	297	ND

Dibromofluoromethane surrogate recovery..... 100 %
 Toluene-d8 surrogate recovery..... 103 %
 Bromofluorobenzene surrogate recovery..... 103 %

ND= COMPOUND NOT DETECTED AT OR ABOVE MDL
 MDL= METHOD DETECTION LIMIT
 (p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST Steve Verally / GFL

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

ROBERT E. LEE & ASSOCIATES, INC.

CLIENT: STS CONSULTANTS LTD - GREEN BAY
PROJECT: 24871XF / MARTINIZING - 1233 S MILITARY
CHAIN NUMBER: 66282

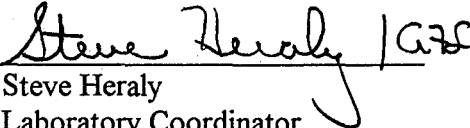
NARRATIVE

This narrative is relevant to samples MW-2, MW-4 and TRIP BLANK.

The samples were analyzed for volatile organic compounds following SW-846 Method 8260.

The following is a summary of the quality control results:

1. The reported compounds were not detected in the method blank.
2. The precision between the matrix spike recovery and the matrix spike duplicate recovery was within laboratory limits for each of the reported compounds.
3. The matrix spike recovery was within laboratory limits for each of the reported compounds.
4. The matrix spike duplicate recovery was within laboratory limits for each of the reported compounds.
5. The surrogate recovery for all samples was within laboratory limits for each of the three surrogates spiked.
6. The initial and final calibration check standards verified the calibration curve for each of the reported compounds.


Steve Heraly
Laboratory Coordinator
JF

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 A LIQUID BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants Ltd-Green Bay
 DATE SAMPLED: June 17, 1999
 DATE ANALYZED: June 29, 1999
 ANALYZED BY: JF


PROJECT: 24871XF/Martinizing
 CHAIN NUMBER: 66282
 REL NUMBER: 99RELO10573
 SAMPLE: MW-2
 DILUTION: None

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
Benzene	0.19	0.63	ND
Bromobenzene	0.34	1.13	ND
Bromochloromethane	0.17	0.55	ND
Bromodichloromethane	0.25	0.83	ND
Bromoform	0.45	1.50	ND
Bromomethane	0.34	1.13	ND
n-Butylbenzene	0.04	0.13	ND
sec-Butylbenzene	0.35	1.16	ND
tert-Butylbenzene	0.28	0.94	ND
Carbon Tetrachloride	0.23	0.76	ND
Chlorobenzene	0.10	0.32	ND
Chloroethane	0.50	1.65	ND
Chloroform	0.20	0.67	ND
Chloromethane	0.21	0.71	ND
2-Chlorotoluene	0.25	0.83	ND
4-Chlorotoluene	0.65	2.18	ND
Dibromochloromethane	0.19	0.64	ND
1,2-Dibromo-3-Chloropropane	0.23	0.77	ND
1,2-Dibromoethane	0.40	1.34	ND
Dibromomethane	0.33	1.09	ND
1,2-Dichlorobenzene	0.04	0.12	ND
1,3-Dichlorobenzene	0.49	1.62	ND
1,4-Dichlorobenzene	0.45	1.51	ND
Dichlorodifluoromethane	0.27	0.91	ND
1,1-Dichloroethane	0.15	0.49	ND
1,2-Dichloroethane	0.35	1.17	ND
1,1-Dichloroethene	0.11	0.37	ND
cis 1,2-Dichloroethene	0.19	0.62	ND
trans 1,2-Dichloroethene	0.21	0.70	ND
1,2-Dichloropropane	0.09	0.31	ND

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
1,3-Dichloropropane	0.26	0.87	ND
2,2-Dichloropropane	0.78	2.59	ND
1,1-Dichloropropene	0.25	0.84	ND
cis-1,3-Dichloropropene	0.10	0.32	ND
trans-1,3-Dichloropropene	0.14	0.45	ND
Ethylbenzene	0.19	0.65	ND
Hexachlorobutadiene	0.07	0.25	ND
Isopropylbenzene	0.23	0.77	ND
p-Isopropyltoluene	0.12	0.41	ND
Methylene Chloride	0.25	0.85	ND
Naphthalene	0.08	0.27	ND
n-Propylbenzene	0.36	1.19	ND
Styrene	0.08	0.28	ND
1,1,1,2-Tetrachloroethane	0.19	0.63	ND
1,1,2,2-Tetrachloroethane	0.52	1.74	ND
Tetrachloroethene	0.34	1.12	ND
Toluene	0.11	0.37	ND
1,2,3-Trichlorobenzene	0.05	0.17	ND
1,2,4-Trichlorobenzene	0.05	0.17	ND
1,1,1-Trichloroethane	0.30	1.01	ND
1,1,2-Trichloroethane	0.20	0.67	ND
Trichloroethene	0.21	0.71	ND
Trichlorofluoromethane	0.49	1.63	ND
1,2,3-Trichloropropane	0.99	3.30	ND
1,2,4-Trimethylbenzene	0.46	1.55	ND
1,3,5-Trimethylbenzene	0.35	1.15	ND
Vinyl Chloride	0.14	0.47	ND
m&p-Xylene	0.39	1.31	ND
o-Xylene	0.18	0.59	ND

Dibromofluoromethane surrogate recovery..... 94 %
 Toluene-d8 surrogate recovery..... 90 %
 Bromofluorobenzene surrogate recovery..... 96 %

ND= COMPOUND NOT DETECTED AT OR ABOVE MDL
 MDL= METHOD DETECTION LIMIT
 (p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST 

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 A LIQUID BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants Ltd-Green Bay
 DATE SAMPLED: June 17, 1999
 DATE ANALYZED: June 29, 1999
 ANALYZED BY: JF

PROJECT: 24871XF/Martinizing
 CHAIN NUMBER: 66282
 REL NUMBER: 99REL010575
 SAMPLE: MW-4
 DILUTION: None

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
Benzene	0.19	0.63	ND
Bromobenzene	0.34	1.13	ND
Bromochloromethane	0.17	0.55	ND
Bromodichloromethane	0.25	0.83	ND
Bromoform	0.45	1.50	ND
Bromomethane	0.34	1.13	ND
n-Butylbenzene	0.04	0.13	ND
sec-Butylbenzene	0.35	1.16	ND
tert-Butylbenzene	0.28	0.94	ND
Carbon Tetrachloride	0.23	0.76	ND
Chlorobenzene	0.10	0.32	ND
Chloroethane	0.50	1.65	ND
Chloroform	0.20	0.67	ND
Chloromethane	0.21	0.71	ND
2-Chlorotoluene	0.25	0.83	ND
4-Chlorotoluene	0.65	2.18	ND
Dibromochloromethane	0.19	0.64	ND
1,2-Dibromo-3-Chloropropane	0.23	0.77	ND
1,2-Dibromoethane	0.40	1.34	ND
Dibromomethane	0.33	1.09	ND
1,2-Dichlorobenzene	0.04	0.12	ND
1,3-Dichlorobenzene	0.49	1.62	ND
1,4-Dichlorobenzene	0.45	1.51	ND
Dichlorodifluoromethane	0.27	0.91	ND
1,1-Dichloroethane	0.15	0.49	ND
1,2-Dichloroethane	0.35	1.17	ND
1,1-Dichloroethene	0.11	0.37	ND
cis 1,2-Dichloroethene	0.19	0.62	ND
trans 1,2-Dichloroethene	0.21	0.70	ND
1,2-Dichloropropane	0.09	0.31	ND

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
1,3-Dichloropropane	0.26	0.87	ND
2,2-Dichloropropane	0.78	2.59	ND
1,1-Dichloropropene	0.25	0.84	ND
cis-1,3-Dichloropropene	0.10	0.32	ND
trans-1,3-Dichloropropene	0.14	0.45	ND
Ethylbenzene	0.19	0.65	ND
Hexachlorobutadiene	0.07	0.25	ND
Isopropylbenzene	0.23	0.77	ND
p-Isopropyltoluene	0.12	0.41	ND
Methylene Chloride	0.25	0.85	ND
Naphthalene	0.08	0.27	ND
n-Propylbenzene	0.36	1.19	ND
Styrene	0.08	0.28	ND
1,1,1,2-Tetrachloroethane	0.19	0.63	ND
1,1,2,2-Tetrachloroethane	0.52	1.74	ND
Tetrachloroethene	0.34	1.12	ND
Toluene	0.11	0.37	0.47
1,2,3-Trichlorobenzene	0.05	0.17	ND
1,2,4-Trichlorobenzene	0.05	0.17	ND
1,1,1-Trichloroethane	0.30	1.01	ND
1,1,2-Trichloroethane	0.20	0.67	ND
Trichloroethene	0.21	0.71	ND
Trichlorofluoromethane	0.49	1.63	ND
1,2,3-Trichloropropane	0.99	3.30	ND
1,2,4-Trimethylbenzene	0.46	1.55	ND
1,3,5-Trimethylbenzene	0.35	1.15	ND
Vinyl Chloride	0.14	0.47	ND
m&p-Xylene	0.39	1.31	ND
o-Xylene	0.18	0.59	ND

Dibromofluoromethane surrogate recovery..... 97 %
 Toluene-d8 surrogate recovery..... 92 %
 Bromofluorobenzene surrogate recovery..... 100 %

ND = COMPOUND NOT DETECTED AT OR ABOVE MDL
 MDL = METHOD DETECTION LIMIT
 (p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST Steve Herold / AFS

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 A LIQUID BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants Ltd-Green Bay
 DATE SAMPLED: June 17, 1999
 DATE ANALYZED: June 29, 1999
 ANALYZED BY: JF

PROJECT: 24871XF/Martinizing
 CHAIN NUMBER: 66282
 REL NUMBER: 99RELO10577
 SAMPLE: Trip Blank
 DILUTION: None

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
Benzene	0.19	0.63	ND
Bromobenzene	0.34	1.13	ND
Bromochloromethane	0.17	0.55	ND
Bromodichloromethane	0.25	0.83	ND
Bromoform	0.45	1.50	ND
Bromomethane	0.34	1.13	ND
n-Butylbenzene	0.04	0.13	ND
sec-Butylbenzene	0.35	1.16	ND
tert-Butylbenzene	0.28	0.94	ND
Carbon Tetrachloride	0.23	0.76	ND
Chlorobenzene	0.10	0.32	ND
Chloroethane	0.50	1.65	ND
Chloroform	0.20	0.67	ND
Chloromethane	0.21	0.71	ND
2-Chlorotoluene	0.25	0.83	ND
4-Chlorotoluene	0.65	2.18	ND
Dibromochloromethane	0.19	0.64	ND
1,2-Dibromo-3-Chloropropane	0.23	0.77	ND
1,2-Dibromoethane	0.40	1.34	ND
Dibromomethane	0.33	1.09	ND
1,2-Dichlorobenzene	0.04	0.12	ND
1,3-Dichlorobenzene	0.49	1.62	ND
1,4-Dichlorobenzene	0.45	1.51	ND
Dichlorodifluoromethane	0.27	0.91	ND
1,1-Dichloroethane	0.15	0.49	ND
1,2-Dichloroethane	0.35	1.17	ND
1,1-Dichloroethene	0.11	0.37	ND
cis 1,2-Dichloroethene	0.19	0.62	ND
trans 1,2-Dichloroethene	0.21	0.70	ND
1,2-Dichloropropane	0.09	0.31	ND

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
1,3-Dichloropropane	0.26	0.87	ND
2,2-Dichloropropane	0.78	2.59	ND
1,1-Dichloropropene	0.25	0.84	ND
cis-1,3-Dichloropropene	0.10	0.32	ND
trans-1,3-Dichloropropene	0.14	0.45	ND
Ethylbenzene	0.19	0.65	ND
Hexachlorobutadiene	0.07	0.25	ND
Isopropylbenzene	0.23	0.77	ND
p-Isopropyltoluene	0.12	0.41	ND
Methylene Chloride	0.25	0.85	ND
Naphthalene	0.08	0.27	ND
n-Propylbenzene	0.36	1.19	ND
Styrene	0.08	0.28	ND
1,1,1,2-Tetrachloroethane	0.19	0.63	ND
1,1,2,2-Tetrachloroethane	0.52	1.74	ND
Tetrachloroethene	0.34	1.12	ND
Toluene	0.11	0.37	ND
1,2,3-Trichlorobenzene	0.05	0.17	ND
1,2,4-Trichlorobenzene	0.05	0.17	ND
1,1,1-Trichloroethane	0.30	1.01	ND
1,1,2-Trichloroethane	0.20	0.67	ND
Trichloroethene	0.21	0.71	ND
Trichlorofluoromethane	0.49	1.63	ND
1,2,3-Trichloropropane	0.99	3.30	ND
1,2,4-Trimethylbenzene	0.46	1.55	ND
1,3,5-Trimethylbenzene	0.35	1.15	ND
Vinyl Chloride	0.14	0.47	ND
m&p-Xylene	0.39	1.31	ND
o-Xylene	0.18	0.59	ND

Dibromofluoromethane surrogate recovery..... 100 %
 Toluene-d8 surrogate recovery..... 97 %
 Bromofluorobenzene surrogate recovery..... 108 %

ND = COMPOUND NOT DETECTED AT OR ABOVE MDL
 MDL = METHOD DETECTION LIMIT
 (p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST Steve Healy/A75

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

ROBERT E. LEE & ASSOCIATES, INC.

CLIENT: STS CONSULTANTS LTD - GREEN BAY
PROJECT: 24871XF / MARTINIZING - 1233 S MILITARY
CHAIN NUMBER: 66282

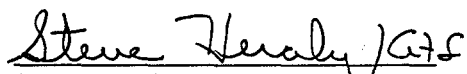
NARRATIVE

This narrative is relevant to samples MW-3 and PZ-1.

The samples were analyzed for volatile organic compounds following SW-846 Method 8260.

The following is a summary of the quality control results:

1. The reported compounds were not detected in the method blank.
2. The precision between the matrix spike recovery and the matrix spike duplicate recovery was within laboratory limits for each of the reported compounds.
3. The matrix spike recovery was within laboratory limits for each of the reported compounds.
4. The matrix spike duplicate recovery was within laboratory limits for each of the reported compounds.
5. The surrogate recovery for all samples was within laboratory limits for each of the three surrogates spiked.
6. The initial and final calibration check standards verified the calibration curve for each of the reported compounds.


Steve Heraly
Laboratory Coordinator
JF

ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 A LIQUID BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants Ltd-Green Bay
 DATE SAMPLED: June 17, 1999
 DATE ANALYZED: June 25, 1999
 ANALYZED BY: JF

PROJECT: 24871XF/Martinizing
 CHAIN NUMBER: 66282
 REL NUMBER: 99REL010574
 SAMPLE: MW-3
 DILUTION: 1 to 50

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
Benzene	9.40	31.3	ND
Bromobenzene	16.9	56.3	ND
Bromochloromethane	8.30	27.7	ND
Bromodichloromethane	12.4	41.3	ND
Bromoform	22.5	75.0	ND
Bromomethane	16.9	56.3	ND
n-Butylbenzene	2.00	6.67	ND
sec-Butylbenzene	17.4	58.0	ND
tert-Butylbenzene	14.1	47.0	ND
Carbon Tetrachloride	11.4	38.0	ND
Chlorobenzene	4.80	16.0	ND
Chloroethane	24.8	82.7	ND
Chloroform	10.0	33.3	ND
Chloromethane	10.7	35.7	ND
2-Chlorotoluene	12.5	41.7	ND
4-Chlorotoluene	32.7	109	ND
Dibromochloromethane	9.60	32.0	ND
1,2-Dibromo-3-Chloropropane	11.5	38.3	ND
1,2-Dibromoethane	20.1	67.0	ND
Dibromomethane	16.3	54.3	ND
1,2-Dichlorobenzene	1.80	6.00	ND
1,3-Dichlorobenzene	24.3	81.0	ND
1,4-Dichlorobenzene	22.6	75.3	ND
Dichlorodifluoromethane	13.7	45.7	ND
1,1-Dichloroethane	7.40	24.7	ND
1,2-Dichloroethane	17.5	58.3	ND
1,1-Dichloroethene	5.50	18.3	ND
cis 1,2-Dichloroethene	9.30	31.0	ND
trans 1,2-Dichloroethene	10.5	35.0	ND
1,2-Dichloropropane	4.70	15.7	ND

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
1,3-Dichloropropane	13.1	43.7	ND
2,2-Dichloropropane	38.8	129	ND
1,1-Dichloropropene	12.6	42.0	ND
cis-1,3-Dichloropropene	4.80	16.0	ND
trans-1,3-Dichloropropene	6.80	22.7	ND
Ethylbenzene	9.70	32.3	ND
Hexachlorobutadiene	3.70	12.3	ND
Isopropylbenzene	11.6	38.7	ND
p-Isopropyltoluene	6.20	20.7	ND
Methylene Chloride	12.7	42.3	ND
Naphthalene	4.10	13.7	ND
n-Propylbenzene	17.9	59.7	ND
Styrene	4.20	14.0	ND
1,1,1,2-Tetrachloroethane	9.40	31.3	ND
1,1,2,2-Tetrachloroethane	26.1	87.0	ND
Tetrachloroethene	16.8	56.0	477
Toluene	5.50	18.3	ND
1,2,3-Trichlorobenzene	2.60	8.67	ND
1,2,4-Trichlorobenzene	2.50	8.33	ND
1,1,1-Trichloroethane	15.1	50.3	ND
1,1,2-Trichloroethane	10.0	33.3	ND
Trichloroethene	10.6	35.3	ND
Trichlorofluoromethane	24.5	81.7	ND
1,2,3-Trichloropropane	49.5	165	ND
1,2,4-Trimethylbenzene	23.2	77.3	ND
1,3,5-Trimethylbenzene	17.3	57.7	ND
Vinyl Chloride	7.00	23.3	ND
m&p-Xylene	19.6	65.3	ND
o-Xylene	8.90	29.7	ND

Dibromofluoromethane surrogate recovery..... 99 %
 Toluene-d8 surrogate recovery..... 107 %
 Bromofluorobenzene surrogate recovery..... 104 %

ND = COMPOUND NOT DETECTED AT OR ABOVE MDL

MDL = METHOD DETECTION LIMIT

(p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST Steve Herold / GFL

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ROBERT E. LEE & ASSOCIATES, INC

LABORATORY SERVICES
 2825 S. WEBSTER AVE. P.O. BOX 2100
 GREEN BAY, WIS 54306
 TELEPHONE NUMBER: (920) 336 - 6338
 WISCONSIN CERTIFICATION NUMBER: 405043870

METHOD 8260. VOLATILE ORGANIC COMPOUNDS IN
 A LIQUID BY PURGE AND TRAP
 CAPILLARY COLUMN GAS CHROMATOGRAPHY
 WITH MASS SELECTIVE DETECTION.

CLIENT: STS Consultants Ltd-Green Bay
 DATE SAMPLED: June 17, 1999
 DATE ANALYZED: June 24, 1999
 ANALYZED BY: JF

PROJECT: 24871XF/Martinizing
 CHAIN NUMBER: 66282
 REL NUMBER: 99REL010576
 SAMPLE: PZ-1
 DILUTION: 1 to 5

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
Benzene	0.94	3.13	ND
Bromobenzene	1.69	5.63	ND
Bromochloromethane	0.83	2.77	ND
Bromodichloromethane	1.24	4.13	ND
Bromoform	2.25	7.50	ND
Bromomethane	1.69	5.63	ND
n-Butylbenzene	0.20	0.67	ND
sec-Butylbenzene	1.74	5.80	ND
tert-Butylbenzene	1.41	4.70	ND
Carbon Tetrachloride	1.14	3.80	ND
Chlorobenzene	0.48	1.60	ND
Chloroethane	2.48	8.27	ND
Chloroform	1.00	3.33	ND
Chloromethane	1.07	3.57	ND
2-Chlorotoluene	1.25	4.17	ND
4-Chlorotoluene	3.27	10.9	ND
Dibromochloromethane	0.96	3.20	ND
1,2-Dibromo-3-Chloropropane	1.15	3.83	ND
1,2-Dibromoethane	2.01	6.70	ND
Dibromomethane	1.63	5.43	ND
1,2-Dichlorobenzene	0.18	0.60	ND
1,3-Dichlorobenzene	2.43	8.10	ND
1,4-Dichlorobenzene	2.26	7.53	ND
Dichlorodifluoromethane	1.37	4.57	ND
1,1-Dichloroethane	0.74	2.47	ND
1,2-Dichloroethane	1.75	5.83	ND
1,1-Dichloroethene	0.55	1.83	ND
cis 1,2-Dichloroethene	0.93	3.10	ND
trans 1,2-Dichloroethene	1.05	3.50	ND
1,2-Dichloropropane	0.47	1.57	ND

ANALYTE	MDL ug/L	PQL ug/L	RESULT ug/L
1,3-Dichloropropane	1.31	4.37	ND
2,2-Dichloropropane	3.88	12.9	ND
1,1-Dichloropropene	1.26	4.20	ND
cis-1,3-Dichloropropene	0.48	1.60	ND
trans-1,3-Dichloropropene	0.68	2.27	ND
Ethylbenzene	0.97	3.23	ND
Hexachlorobutadiene	0.37	1.23	ND
Isopropylbenzene	1.16	3.87	ND
p-Isopropyltoluene	0.62	2.07	ND
Methylene Chloride	1.27	4.23	ND
Naphthalene	0.41	1.37	ND
n-Propylbenzene	1.79	5.97	ND
Styrene	0.42	1.40	ND
1,1,1,2-Tetrachloroethane	0.94	3.13	ND
1,1,2,2-Tetrachloroethane	2.61	8.70	ND
Tetrachloroethene	1.68	5.60	98.3
Toluene	0.55	1.83	ND
1,2,3-Trichlorobenzene	0.26	0.87	ND
1,2,4-Trichlorobenzene	0.25	0.83	ND
1,1,1-Trichloroethane	1.51	5.03	5.04
1,1,2-Trichloroethane	1.00	3.33	ND
Trichloroethene	1.06	3.53	4.00
Trichlorofluoromethane	2.45	8.17	ND
1,2,3-Trichloropropane	4.95	16.5	ND
1,2,4-Trimethylbenzene	2.32	7.73	ND
1,3,5-Trimethylbenzene	1.73	5.77	ND
Vinyl Chloride	0.70	2.33	ND
m&p-Xylene	1.96	6.53	ND
o-Xylene	0.89	2.97	ND

Dibromofluoromethane surrogate recovery..... 110 %
 Toluene-d8 surrogate recovery..... 113 %
 Bromofluorobenzene surrogate recovery..... 113 %

ND = COMPOUND NOT DETECTED AT OR ABOVE MDL
 MDL = METHOD DETECTION LIMIT
 (p) = REPORTED RESULT IS LESS THAN THE PRACTICAL QUANTITATION LIMIT (PQL)

ATTEST Steve Herold JGF

THIS REPORT IS VALID ONLY WHEN ACCOMPANIED WITH THE APPROPRIATE NARRATIVE.

CHAIN OF CUSTODY RECORD

No. ~~2602900~~ # 66282A



Contact Person PAUL GARVEY
 Phone No. 468-1978 Office G.B.
 Project No. 24870XF PO No. _____
 Project Name MARTINIZING - 1233 S. MILITARY AVE.

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

RECORD NUMBER 1 THROUGH 1

Laboratory REL
 Contact Person P.K.
 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				
MW-1	1999 6/17		X		3	WATER	X						VOCs (REGULAR LIST)	10572
MW-2														10573
MW-3														10574
MW-4														10575
PZ-1														10576
TRIP BLANK					1								TRIP BLANK	10577

Collected by: <u>[Signature]</u>	Date <u>6-17-99</u>	Time <u>1:30P</u>	Delivery by: <u>[Signature]</u>	Date <u>6-17-99</u>	Time <u>1:45P</u>
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>Paul D. Knuth</u>	Date <u>6-17-99</u>	Time <u>1:45P</u>	Relinquished by:	Date	Time

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

Final Disposition:	Comments (Weather Conditions, Precautions, Hazards):
	NOTE: NOT TO BE CONFUSED W/ PROJ. NO. 24870XF MARTINIZING - 1233 MAIN ST.

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.